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BAYOU LACOMBE WATERSHED TMDL
FOR BIOCHEMICAL OXYGEN-DEMANDING SUBSTANCES – PHASE I

SUBSEGMENTS 040901 AND 040902

Bayou Lacombe Survey October 6-10, 2008

TMDL REPORT

By:
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Louisiana Department of Environmental Quality

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TECHNICAL SUMMARY

Bayou Lacombe, Subsegments 040901 and 040902, was on the 2006, 2008, and Draft 2010 Integrated Report (combined 305(b) and 303(d) reports) and EPA's Consent Decree (E. D. La. 2002). Subsegment 040901 was found to be "not supporting" its designated uses of Fish and Wildlife Propagation and Outstanding Natural Resource. It was found to be supporting its designated uses of Primary and Secondary Contact Recreation on the 2008 303(d) list.

Subsegment 040902 was found to be "not supporting" its designated use of Fish and Wildlife Propagation. It was found to be supporting its designated uses of Primary and Secondary Contact Recreation and Outstanding Natural Resource on the 2008 303(d) list. Bayou Lacombe was subsequently scheduled for Total Maximum Daily Load (TMDL) development with other listed waters in the Lake Pontchartrain Basin. Tables 1 - 3 below list the 2006, 2008, and Draft 2010 Integrated Reports for Subsegments 040901 and 040902.

Oxygen-demanding parameters modeled included CBOD, NBOD, and DO. Conservative parameters modeled include conductivity, chlorides, and salinity.

Subsegments 040901 and 040902 lie entirely within St. Tammany Parish and drain into Lake Pontchartrain.

LDEQ is utilizing a phased TMDL approach for Bayou Lacombe as shown in Table 4. This approach provides LDEQ with the opportunity to revise the DO criteria and at the same time, allows LDEQ to develop a meaningful and implementable DO TMDL based upon the appropriate DO criteria and in accordance with EPA's Consent Decree (E. D. La. 2002) deadlines. At the same time, it will lead to improved water quality while providing local governments and businesses the opportunity to prepare and adjust to the new permit requirements that will be implemented as a result of the TMDL developed in Phases I and II.

Phase I will include the development of loading values for the existing DO criteria for Bayou Lacombe. Based on existing criteria, the resulting permit limits for facilities in subsegments 040901 and 040902 are presented in Tables 11 and 12. However, full implementation of permit limits will occur in a phased manner. Phase I will serve as the first step towards meeting the DO criteria. The implementation of permit limits will occur according to the following strategy.

Table 1. 2006 303(d) Listing for Subsegments 040901 and 040902

Subsegment Number	Subsegment Description	Type	Size (Miles)	PCR	SCR	FWP	DWS	ONR	OYS	AGR	LAL	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Due Date	TMDL Priority	Suspected Sources of Impairment
LA040901_00	Bayou Lacombe-Headwaters to U.S. Hwy. 190 (Scenic)	River	13	Fully Supporting	Fully Supporting	Not Supporting		Fully Supporting				FWP	Chloride, Sulfates, Total Dissolved Solids	LDEQ 2 / EPA-5	TBD	L	Drought-related Impacts
LA040901_00	Bayou Lacombe-Headwaters to U.S. Hwy. 190 (Scenic)	River	13	Fully Supporting	Fully Supporting	Not Supporting		Fully Supporting				FWP	Oxygen, Dissolved	IRC 5	2011	M	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
LA040901_00	Bayou Lacombe-Headwaters to U.S. Hwy. 190 (Scenic)	River	13	Fully Supporting	Fully Supporting	Not Supporting		Fully Supporting				FWP	pH, Low	IRC 4c	N/A		Naturally Occurring Organic Acids
LA040902_00	Bayou Lacombe-U.S. Hwy. 190 to Lake Pontchartrain (Scenic) (Estuarine)	River	7	Not Supporting	Fully Supporting	Not Supporting		Fully Supporting				FWP	Chloride, Sulfates, Total Dissolved Solids	IRC 2	TBD	L	Drought-related Impacts
LA040902_00	Bayou Lacombe-U.S. Hwy. 190 to Lake Pontchartrain (Scenic) (Estuarine)	River	7	Not Supporting	Fully Supporting	Not Supporting		Fully Supporting				PCR	Fecal Coliform	IRC 5	2011	M	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
LA040902_00	Bayou Lacombe-U.S. Hwy. 190 to Lake Pontchartrain (Scenic) (Estuarine)	River	7	Not Supporting	Fully Supporting	Not Supporting		Fully Supporting				FWP	Oxygen, Dissolved	IRC 5	2011	M	Source Unknown
LA040902_00	Bayou Lacombe-U.S. Hwy. 190 to Lake Pontchartrain (Scenic) (Estuarine)	River	7	Not Supporting	Fully Supporting	Not Supporting		Fully Supporting				FWP	pH, Low	IRC 4c	N/A		Naturally Occurring Organic Acids

Abbreviations:

PCR - Primary Contact Recreation
SCR - Secondary Contact Recreation
FWP - Fish and Wildlife Propagation
DWS - Drinking Water Supply
ONR - Outstanding Natural Resource
SFP - Shellfish Propagation
AGR - Agriculture
LAL - Limited Aquatic Life

Table 2. 2008 303(d) Listing for Subsegments 040901 and 040902

Subsegment Number	Subsegment Description	Type	Size	PCR	SCR	FWP	DWS	ONR	OYS	AGR	LAL	DO CM Full?	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Due Date	TMDL Priority	Suspected Sources of Impairment	Interim Changes Between Public Notice and Final Version
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	River	13	Fully Supporting	Fully Supporting	Not Supporting		Not Supporting					FWP	Chloride, Total Dissolved Solids, Turbidity	IRC 3			Drainage/Filling/Loss of Wetlands	
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	River	13	Fully Supporting	Fully Supporting	Not Supporting		Not Supporting					FWP	Chloride, Total Dissolved Solids	IRC 3			Habitat Modification - other than Hydromodification, Littoral/shore Area Modifications (Non-riverine)	
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	River	13	Fully Supporting	Fully Supporting	Not Supporting		Not Supporting					FWP	pH, Low	IRC 5RC	2021	L	Naturally Occurring Organic Acids	
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	River	13	Fully Supporting	Fully Supporting	Not Supporting		Not Supporting					FWP	Oxygen, Dissolved	IRC 5	2011	H	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)	
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	River	13	Fully Supporting	Fully Supporting	Not Supporting		Not Supporting					ONR	Turbidity	IRC 5	TBD	L	Site Clearance (Land Development or Redevelopment), Source Unkown	
LA040902_00	Bayou Lacombe-From US-190 to Lake Pontchartrain (Scenic) (Estuarine)	River	7	Fully Supporting	Fully Supporting	Not Supporting		Fully Supporting					FWP	Chloride, Sulfates, Total Dissolved Solids	IRC 3			Drainage/Filling/Loss of Wetlands, Habitat Modification - other than Hydromodification, Littoral/shore Area Modifications (Non-riverine)	
LA040902_00	Bayou Lacombe-From US-190 to Lake Pontchartrain (Scenic) (Estuarine)	River	7	Fully Supporting	Fully Supporting	Not Supporting		Fully Supporting					FWP	Oxygen, Dissolved	IRC 5	2011	H	Source Unknown	

Table 3. Draft 2010 303(d) Listing for Subsegments 040901 and 040902

Subsegment Number	Subsegment Description	Type	Size (Miles)	Designated Water Body Uses								Follow-up Data Comments	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Due Date	TMDL Priority	Suspected Sources of Impairment
				PCR	SCR	FWP	DWS	ONR	OYS	AGR	LAL							
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	River	13	Fully Supporting	Fully Supporting	Not Supporting		Not Supporting					FWP	Chloride, Total Dissolved Solids	IRC 3			Drainage/Filling/Loss of Wetlands, Habitat Modification - other than Hydromodification, Littoral/shore Area Modifications (Non-riverine)
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	River	13	Fully Supporting	Fully Supporting	Not Supporting		Not Supporting					FWP	Lead	IRC 5	TBD	L	Source Unknown
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	River	13	Fully Supporting	Fully Supporting	Not Supporting		Not Supporting					FWP	Oxygen, Dissolved	IRC 5	2012	H	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	River	13	Fully Supporting	Fully Supporting	Not Supporting		Not Supporting					FWP	pH, Low	IRC 5RC	2021	L	Naturally Occurring Organic Acids
LA040901_00	Bayou Lacombe-From headwaters to US-190 (Scenic)	River	13	Fully Supporting	Fully Supporting	Not Supporting		Not Supporting					ONR	Turbidity	IRC 5	TBD	L	Drainage/Filling/Loss of Wetlands, Site Clearance (Land Development or Redevelopment), Drainage/Filling/Loss of Wetlands
LA040902_00	Bayou Lacombe-From US-190 to Lake Pontchartrain (Scenic) (Estuarine)	River	7	Fully Supporting	Fully Supporting	Not Supporting		Fully Supporting					FWP	Chloride, Sulfates, Total Dissolved Solids	IRC 3			Drainage/Filling/Loss of Wetlands, Habitat Modification - other than Hydromodification, Littoral/shore Area Modifications (Non-riverine), Littoral/shore Area Modifications (Non-riverine)
LA040902_00	Bayou Lacombe-From US-190 to Lake Pontchartrain (Scenic) (Estuarine)	River	7	Fully Supporting	Fully Supporting	Not Supporting		Fully Supporting					FWP	Oxygen, Dissolved	IRC 5	2012	H	Source Unknown

Table 4. Bayou Lacombe Phased TMDL Approach

Stage / Phase	DO Criteria (mg/L)	Implementation Date
Phase I	**5.0 mg/L – 040901; 4.0 mg/L – 040902**	**Phase I implementation required upon EPA approval of the TMDL and subsequent update of Louisiana's Water Quality Management Plan**
Primary Activities - Ecoregion-based UAA developed and DO criteria revised and promulgated;		
Phase II	**Appropriate DO criteria based on UAA**	**Phase II implementation required upon EPA approval of Phase II of the TMDL and subsequent update of Louisiana's Water Quality Management Plan**

Phase I Permit Implementation

All TMDL, permitting, and enforcement activities will be conducted in accordance with the Clean Water Act, the Louisiana Environmental Regulatory Code, and applicable state laws.

1. New discharges of oxygen-demanding loads:

   Due to the ONRW status of Bayou Lacombe, the waterbody is afforded Tier 3 protection, according to 40 CFR 131.12 (a)(3). New or increased discharges that will cause degradation, as defined in LAC 33:IX.1119.C.4, will not be approved. However, in the event that such a discharge will not cause degradation and one of the requirements below can be attained, LDEQ may permit the new discharge. Such new facilities may be required to submit an environmental impact assessment to LDEQ's permitting staff, which will conduct a thorough evaluation of the proposed facility based on environmental impacts, economic benefits, an analysis of alternatives, and other pertinent factors. The typical permit limits will be 5 mg/L BOD_5 / 2 mg/L NH_3 / 5 mg/L DO.

   a. The facility demonstrates that it will provide a significant load reduction of man-made oxygen-demanding constituents to the impaired watershed(s) serviced by the facility. The facility must also contribute to a reduction in the number of facilities discharging to the watershed(s). Facilities that may be considered for permits under this provision include, but are not limited to:

      i. A facility that will provide improved sewage treatment to multiple subdivisions previously serviced by wastewater treatment plants that are incapable of treating to tertiary limits.

ii. A facility that will provide sewage collection and treatment to previously unsewered areas in which many of the sanitary discharges from permitted facilities and individual home treatment units were entering an impaired watershed. As a result, the facility would be expected to provide more efficient treatment to the wastewater and reduce the net loading of oxygen-demanding substances in the watershed.

b. The facility demonstrates that its wastewater will not leave the facility or its property. Significant stormwater events do not apply to this provision. For the purpose of this provision, a significant stormwater event is defined as the 25 year, 24 hour rainfall event or its numerical equivalent, as defined by the Southern Regional Climate Center.

i. Facilities that may be considered under this provision include, but are not limited to:

a. Effluent reduction and/or "no discharge" systems that have been approved by the Louisiana Department of Health and Hospitals.

b. Wastewater treatment plants equipped with overland flow systems in which the effluent will not leave the facility.

c. Wastewater treatment plants equipped with holding ponds that will retain the effluent such that the effluent will not leave the facility.

ii. LDEQ recognizes that some local governments are in the process of building or expanding regional sewage collection and treatment systems. In such areas, LDEQ may, on a limited basis, grant permits of limited durations to facilities that agree to tie into a regional collection and treatment system when it becomes available. LDEQ must have absolute assurance that the regional collection system will be available to the facility and the facility will connect to the regional collection system on or before the expiration date of the permit. Such assurance may include a formal agreement between the facility, the owner and operator of the regional wastewater treatment system, and LDEQ. The regional system must have the capacity to treat the additional wastewater. Such a permit may have a duration of less than five years or it may have a five year duration with interim permit limits. The permit will be written based on projected completion dates for the construction of the collection and treatment system. The facility will be required to cease all wastewater

discharges to the Bayou Lacombe watershed and transfer the discharge to the regional collection system once the permit or interim limits expire or the collection system is available to the facility, whichever comes first. If the permit or interim limits expire, but, due to unforeseen circumstances, the availability of the collection system has been temporarily delayed, the duration of the permit or interim limits may be extended. If the availability of the collection system has been indefinitely delayed, the facility may be required to consider alternatives. Such alternatives may include processes that lead to a reduction or complete removal of the discharge to Bayou Lacombe, such as those outlined in item 1.b.i above or the use of a different flow path to state waters.

c. LDEQ reassesses Subsegments 040901 and 040902 (Bayou Lacombe). LDEQ determines that Subsegments 040901 and 040902 are meeting the appropriate DO criteria and designated uses.

2. Existing discharges of oxygen demanding loads:

The Phase I permit limits for existing dischargers in the Bayou Lacombe watershed are presented in Tables 5 - 6. Post-aeration is recommended. Existing facilities discovered to be discharging oxygen-demanding loads without LPDES permits as of the TMDL approval date are to be permitted in accordance with the limits established for existing facilities with permits. Unpermitted facilities that are newly activated or reactivated and discharging after the TMDL approval date may be subjected to enforcement actions and will be required to tie into regional collection and treatment systems, once those systems are available. Once the TMDL is approved, existing facilities may have up to 3 years from their next permit renewal date to meet the interim limits.

3. Nutrient monitoring (i.e., reporting for Total Nitrogen and Total Phosphorus) will be required for individual permits. Nutrient monitoring will be added to the general permit series (LAG530000, LAG540000, LAG560000, and LAG570000) upon the next scheduled renewal of each series.

Phase II will be developed based on the outcome of a planned ecoregion-based use attainability analysis (UAA). Based on data collected in previous UAA studies, this UAA may propose new DO criteria for many of the Pontchartrain Basin TMDLs that are currently being developed. These TMDLs have an EPA backstop due date of March 31, 2012. This new DO criteria is expected to be developed and promulgated within the next two to three years.

In the event the new criteria is not developed and promulgated within five years from the TMDL approval date, LDEQ intends to proceed in the following manner:

Case 1: The UAA study indicates that the current DO criterion is appropriate - the TMDL will be fully implemented based on the existing DO criteria.
Case 2: The UAA is not likely to be completed and/or approved - the TMDL will be fully implemented based on the existing DO criteria.
Case 3: The UAA is in process and is expected to be approved – Phase II of the TMDL will be postponed for a maximum period of 2 years. If the UAA has not been completed at the end of this period, the UAA status will be reviewed again according to Cases 1 - 3.

LDEQ recognizes there may be many unpermitted sources of oxygen-demanding loading within the Lake Pontchartrain Basin. These sources may include unpermitted facilities (privately owned treatment units for subdivisions or businesses). LDEQ has been locating unpermitted facilities and updating location information on permitted facilities in the Lake Pontchartrain Basin. The unpermitted facilities are required to apply for the appropriate LPDES (Louisiana Pollutant Discharge Elimination System) permits. LDEQ may conduct field surveys to gather information on facilities within the Bayou Lacombe watershed in the future. These unpermitted sources of oxygen-demanding loading may also include individual treatment units for residential homes and small businesses. The ability to accurately quantify the loads provided from these systems is extremely difficult due to lack of reliable information regarding the number of units and the loading provided by each individual unit. These unpermitted sources of loading add to the uncertainty of this TMDL and provide additional justification for the use of the phased TMDL approach.

Table 5. Interim Limits for 040901 Point Sources

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
St. Tammany Parish Stormwater	108405	LAR041024	12/4/2012	Stormwater	N/A	Ditches to Bayou Lacombe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	MS4 addressed in model and TMDL. This TMDL will not impose permit limits.
WTSO Utilities, Beau Village Subdivision	33916	LAG570118	Permit not reauthorized due to outstanding fees or penalties that are past due. EDMS document 8/21/2009.	Oxidation pond	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	24,000	10	No limit	No limit	10	2	2	This facility is included in the Beau Village Ditch. The ditch is 3.0 km long, and the facility enters the ditch at RKM 2.9. The ditch enters Bayou Lacombe at RKM 14.6.
Frito-Lay Inc	41574	LAG530665	11/30/2012	STP	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	300	45 WA	No limit	No limit	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Central Progressive Bank - Operations Center	43188	LAG530822	11/30/2012	STP	001	Bayou Lacombe	Bayou Lacombe	<2,500	45 WA	No limit	No limit	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.
Pavestone Co.	52076	LAG480263	11/30/2015	001 & 002: STP	001 & 002	001 & 002: Ditch, Bayou Lacombe	Bayou Lacombe	001: 800, 002: <1,440	001 & 002: 30	No limit	No limit	30	*	*	Included in Cluster 2 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.4. The ditch enters Bayou Lacombe at RKM 19.1.
Coast Concrete Service Inc	86020	LAG531123	11/30/2012	STP	001	Private ditch, parish ditch, state ditch, Bayou Lacombe	Bayou Lacombe	200	45 WA	No limit	No limit	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.
US Fish & Wildlife Service - Southeast Louisiana Refuges	93344	LAG531332	11/30/2012	STP	001 (visitor center), 002 (office building)	Bayou Lacombe	Bayou Lacombe	001=560, 002=560	45 WA	No limit	No limit	20	10	2	Assume the facility discharges directly to Bayou Lacombe at RKM 12.7.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
North Shore Unitarian Universalist Society Church	94618	LAG531308	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	850	45 WA	No limit	No limit	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.
Southern Natural Gas Co - Lacombe Compressor Station	94746	LAG531415	11/30/2012	STP	001	Local drainage, unnamed small tributary, Bayou Lacombe	Bayou Lacombe	<2,500	45 WA	No limit	No limit	45	*	*	Assume the flow path is Fish Hatchery Rd ditch-unnamed tributary-Bayou Lacombe. The ditch/trib is 2.1 km long, and the facility enters the ditch at RKM 2.0. The ditch/trib is designated as SNG ditch and enters Bayou Lacombe at RKM 19.4.
Central Progressive Bank - Krentel Road Office/Warehouse Complex	102362	LAG531352	11/30/2012	STP	001	State ditch, Bayou Lacombe	Bayou Lacombe	600	45 WA	No limit	No limit	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.
Krentel Road Office Building	116987	LAG531504	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	60	45 WA	No limit	No limit	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Lacombe Land LLC - The North Institute Project	118350	LAG531823	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	500	45 WA	No limit	No limit	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.
St Tammany Parish Government - Keller Barn	119164	LAG480356	11/30/2015	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	140	30	No limit	No limit	20	10	2	This facility is included in the Keller Barn Ditch. The ditch is 0.9 km long, and the facility enters the ditch at RKM 0.8. The ditch enters Bayou Lacombe at RKM 17.3.
St Tammany Speedway	120304	LAG531589	11/30/2012	Two oxidation ponds	001	Local drainage, Bayou Lacombe	Bayou Lacombe	2,400	45 WA	No limit	No limit	45	*	*	Assume the flow path is Hwy. 36 ditch then to Bayou Lacombe. This facility was included in the ditch named Hwy. 36 ditch BL. The ditch is 4.2 km long, and the facility enters the ditch at RKM 1.3. The ditch enters Bayou Lacombe at RKM 30.0.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
St Tammany Parish Fire District # 3 - St Tammany Fire Station # 33	122894	LAG531702	11/30/2012	STP	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	40	45 WA	No limit	No limit	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.
Lacombe Stores LLC	128325	LAG531876	11/30/2012	STP	001	Hwy. 434 roadside ditch, unnamed tributary of Bayou Lacombe, Bayou Lacombe (verified from map in application and ArcGIS). (Approximately 0.9 miles from point of discharge to Bayou Lacombe)	Bayou Lacombe	720	30	No limit	No limit	30	*	*	Included in Cluster 2 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.4. The ditch enters Bayou Lacombe at RKM 19.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Animal Services Campus - St. Tammany Parish Government	138040	LAG532078	11/30/2012	Extended aeration with chlorination and detention pond	001	Local drainage, Bayou Lacombe	Bayou Lacombe	4,000	30	No limit	No limit	30	*	*	Assume the flow path is Hwy. 36 then Bayou Lacombe. This facility was included in the ditch named Hwy. 36 ditch BL. The ditch is 4.2 km long, and the facility enters the ditch at RKM 4.1. The ditch enters Bayou Lacombe at RKM 30.0.
H&M Metal Express LLC - Patten's Metal Express	149786	LAG532240	11/30/2012	STP	001	Ditch, parish drainage ditch, Bayou Lacombe	Bayou Lacombe	40	45 WA	No limit	No limit	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.
Journey Fellowship Church Inc	151676	LAG541687	6/30/2013	ATU	001	Retention pond, 2.01 miles in unnamed ditch, Bayou Lacombe	Bayou Lacombe	7,500	30	No limit	No limit	30	*	*	Included in Cluster 2 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.4. The ditch enters Bayou Lacombe at RKM 19.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Axonic, LLC, Neurology Clinic	155402	LAG532735	11/30/2012	ATU	001	Hwy. 434 ditch, other drainage, Bayou Lacombe	Bayou Lacombe	1,000	45 WA	No limit	No limit	45	*	*	Assume the flow path is Hwy. 434 ditch, I-12 ditch, Bayou Lacombe. This facility enters the Hwy. 434/I-12 ditch at RKM 2.6, and the ditch enters Bayou Lacombe at RKM 19.1.
Carmelite Spirituality Center - Sisters of Mt Carmel	157591	LAG532869	11/30/2012	STP	001	Effluent pipe, Bayou Lacombe	Bayou Lacombe	500	45 WA	No limit	No limit	20	10	2	Assume this facility discharges directly to Bayou Lacombe at RKM 15.0.

*No limit for this parameter as a result of this TMDL

**WA=Weekly Average

[a] This TMDL was developed for critical low-flow conditions (7Q10). Therefore the WLAs for all stormwater discharges will be 0.0 lb/d under critical low flow conditions.

Table 6. Interim Limits for 040902 Point Sources

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
St. Tammany Parish Stormwater	108405	LAR041024	12/4/2012	Stormwater	N/A	Ditches to Bayou Lacombe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	MS4 addressed in model and TMDL. This TMDL will not impose permit limits.
Lacombe Car Care	6470	LAG531601	11/30/2012	Mechanical treatment plant	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	290	45 WA	no limit	no limit	30	15	2	Included in cluster 4 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.0. The ditch enters Bayou Lacombe at RKM 11.1.
Brier Lake Utilities Inc - Brier Lake Estates	31079	LAG570209	4/30/2014	Lagoon	001	Cypress Bayou, Bayou Lacombe	Cypress Bayou	40,000	10	no limit	no limit	10	2	2	This facility appears to discharge directly into Cypress Bayou. The facility is located in the portion of Cypress Bayou where there is no data; therefore, the facility was input at RKM 4.8.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Goux Enterprises Inc - Lacombe Nursing Home	33986	LAG540330	6/30/2013	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	9,800	30	no limit	no limit	20	10	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1.
Janie Brown's Casual Restaurant	40796	LAG530691	11/30/2012	STP	001	Roadside ditch, Bayou Lacombe	Bayou Lacombe	1,750	30	no limit	no limit	20	10	2	This facility is included in the ditch designated as Hwy. 190 ditch BL. The ditch is 2.2 km long, and the facility enters the ditch at RKM 1.9. The ditch enters Bayou Lacombe at RKM 11.1.
ICO Corp	41881	LAG530256	11/30/2012		001	Cypress Bayou, Bayou Lacombe	Cypress Bayou	80	45 WA	no limit	no limit	20	10	2	Due to the proximity of the facility to Cypress Bayou, assume it's a direct discharge. The facility was input at RKM 4.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
M&Ms Snoballs	42348	LAG530845	11/30/2012	Septic tank	001	Local drainage, Bayou Lacombe	Bayou Lacombe	270	45 WA	no limit	no limit	30	15	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.
Regina Coeli Child Development Center - Lacombe/Mandeville Head Start	43023	LAG530456	11/30/2012	Sanitary treatment system	001	Ditch, unnamed stream, Bayou Lacombe	Bayou Lacombe	1,950	30	no limit	no limit	20	10	2	This facility is included in the ditch designated as Hwy. 190 ditch BL. The ditch is 2.2 km long, and the facility enters the ditch at RKM 2.1. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Abraham Williams Apartments	43087	LAG530471	11/30/2012	STP	001	Cousin Street drain, Bayou Lacombe	Bayou Lacombe	1,940	30	no limit	no limit	20	10	2	This facility is not near the other clustered facilities. However, to simplify the model, this facility was included in Cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1.
Chahta Ima Elementary School	43400	LAG540698	6/30/2013	STP	001	Ditch, Bayou Lacombe	Bayou Lacombe	7,950	30	no limit	no limit	20	10	2	Included in cluster 3 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.1. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Bayou Lacombe Middle School	43406	LAG570058	4/30/2014	STP	001	Ditch, Bayou Lacombe	Bayou Lacombe	4,600	10	no limit	no limit	10	5	2	This facility is included in the ditch designated as Hwy. 190 ditch BL. The ditch is 2.2 km long, and the facility enters the ditch at RKM 0.9. The ditch enters Bayou Lacombe at RKM 11.1.
Russell's Quick Stop LLC	70935	LAG532035	11/30/2012	STP	001	Hwy. 190 ditch, Bayou Lacombe	Bayou Lacombe	1,855	30	no limit	no limit	20	10	2	Included in cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1
J&S Bayou Gas & Go LLC	75143	LAG532912	11/30/2012	STP	001	Local drainage for 0.43 miles, Bayou Lacombe	Bayou Lacombe	120	45 WA	no limit	no limit	30	15	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
A&L Enterprise LLC	75810	LAG532848	11/30/2012	STP	001	Roadside ditch for 1.46 miles, Bayou Lacombe	Bayou Lacombe	100	45 WA	no limit	no limit	30	15	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.
J & S Chevron LLC	84112	LAG531082	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	3,100	30	no limit	no limit	20	10	2	Included in cluster 3 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.1. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Sal & Judy's Restaurant	89241	LAG531238	11/30/2012	STP	001	Bayou Lacombe	Bayou Lacombe	3,630	30	no limit	no limit	20	10	2	Included in cluster 3 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.1. The ditch enters Bayou Lacombe at RKM 11.1.
Southeastern Louisiana Water & Sewer Co.,LLC, Medcath WWTP, LA Medical Center & Heart Hospital	94173	LAG570479	4/30/2014	STP	001	Effluent pipe to local drainage pond to Hwy 434 ditch, 1-12 drainage ditch, Big Branch, Bayou Lacombe	Big Branch	60,000	10	no limit	no limit	10	2	2	This facility is included in the Hwy. 434/I-12 BBB ditch. The ditch is 6.5 km long. This facility enters the ditch at RKM 3.7. The ditch enters BBB at RKM 5.8 but there is no stream data at that point; therefore, the ditch will enter BBB at RKM 5.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Hwy 434 Mini Storage Inc	97944	LAG531397	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	20	45 WA	no limit	no limit	30	15	2	Assume the flow path is Hwy. 434 ditch-Hwy. 190 ditch-Bayou Lacombe. This facility is included in the Hwy 434/190 ditch BL. The ditch is 2.2 km long, and the facility enters the ditch at RKM 2.1. The ditch enters Bayou Lacombe at RKM 11.0.
Carollo's Shopping Center	99609	LAG531547	11/30/2012	ATU	001	Local drainage, highway ditch, Bayou Lacombe	Bayou Lacombe	>2,500 & <5,000	30	no limit	no limit	20	10	2	Included in cluster 2 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.3. The ditch enters Bayou Lacombe at RKM 11.1.
OW Inc - Bayou Mini Storage	101375	LAG531325	11/30/2012	Mechanical treatment plant	001	Big Branch, Bayou Lacombe	Big Branch	20	45 WA	no limit	no limit	20	10	2	This facility is included in the Hwy. 190 BBB ditch. The ditch is 1.3 km long. To simplify the model, assume this facility enters the ditch at RKM 0.6. The ditch enters BBB at RKM 0.8.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Folger Coffee Co - Lacombe Distribution Center	114220	LAG531459	11/30/2012	STP	001	Roadside ditch, Big Branch Bayou, Bayou Lacombe	Big Branch Bayou	4,000	30	no limit	no limit	20	10	2	Assume the ditch is 0.4 km long and the facility enters the ditch at RKM 0.3. The ditch is named Folger ditch. The ditch enters BBB at RKM 8.9; however there is no stream data at this point so the ditch will enter BBB at RKM 4.9.
Village Church Lutheran Inc - The Village Church Lutheran	114927	LAG532765	11/30/2012	STP	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	2,100	30	no limit	no limit	20	10	2	This facility is not near the other clustered facilities. However, to simplify the model, this facility was included in Cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1.
LA Pines Ranch Inc	117076	LAG531595	11/30/2012	Oxidation pond	001	Local drainage, Cypress Bayou, Bayou Lacombe	Cypress Bayou	>2,500 & <5,000	30	no limit	no limit	20	10	2	Aerial maps from Bing show an oxidation pond nearby. Due to the proximity of the facility to Cypress Bayou, assume it's a direct discharge. The facility was input at RKM 3.8.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Tiller of the Land	119584	LAG531543	11/30/2012	STP	001	Hwy. 190 ditch, Cypress Bayou, Bayou Lacombe	Cypress Bayou	100	45 WA	no limit	no limit	20	10	2	This facility was included in the ditch named Hwy. 190 CB ditch. The ditch is 1.6 km long, and the facility enters the ditch at RKM 0.6. The ditch enters Cypress Bayou at a location where there is no stream data; therefore, the ditch will enter Cypress Bayou at RKM 4.6.
Highway 434 Retail Space	119750	LAG531587	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	220	30	no limit	no limit	20	10	2	This facility is included in the Hwy 434/190 ditch BL. The ditch is 2.2 km long, and the facility enters the ditch at RKM 0.4. The ditch enters Bayou Lacombe at RKM 11.0.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Pepes Mexican Restaurant LLC	122511	LAG531655	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	1,120	30	no limit	no limit	20	10	2	Assume the flow path is Hwy. 190 ditch to Bayou Lacombe. Included in cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1.
Kevin J. Smith Construction Company - Smith Office Building	123821	LAG531695	11/30/2012	STP	001	Unnamed ditch, highway ditch, Cypress Bayou, Bayou Lacombe	Cypress Bayou	200	45 WA	no limit	no limit	20	10	2	Assume that the flow path is Hwy. 190 ditch to Cypress Bayou. This facility was included in the ditch named Hwy. 190 CB ditch. The ditch is 1.6 km long, and the facility enters the ditch at RKM 1.4. The ditch enters Cypress Bayou at a location where there is no stream data; therefore, the ditch will enter Cypress Bayou at RKM 4.6.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
A to Z Preschool LLC	127495	LAG531853	11/30/2012	STP	001	Unnamed ditch, unnamed slough, Cypress Bayou, Bayou Lacombe	Cypress Bayou	1,700	45 WA	no limit	no limit	20	10	2	Assume that the flow path is Hwy. 190 ditch to Cypress Bayou. This facility was included in the ditch named Hwy. 190 CB ditch. The ditch is 1.6 km long, and the facility enters the ditch at RKM 1.5. The ditch enters Cypress Bayou at a location where there is no stream data; therefore, the ditch will enter Cypress Bayou at RKM 4.6.
St. Tammany Parish Sheriff's Office - Lacombe Substation	130003	LAG531889	11/30/2012	STP	001	Highway ditch, Bayou Lacombe	Bayou Lacombe	500	45 WA	no limit	no limit	30	15	2	Included in cluster 4 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.0. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Anna Elliot - 28105 Hwy 190 Building	142046	LAG532100	11/30/2012	ATU	001	Pipe, Unnamed ditch, Bayou Lacombe	Bayou Lacombe	80	45 WA	no limit	no limit	30	15	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.
Taxpayer Properties II Lacombe LLC - Family Dollar	149801	LAG532247	11/30/2012	STP	001	Hwy. 190 ditch, unnamed canal, Bayou Lacombe	Bayou Lacombe	80	45 WA	no limit	no limit	30	15	2	Included in cluster 4 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.0. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Lloyd's Bayou Bargains	151841	LAG532286	11/30/2012	STP	001	Pipe, Main Street ditch, Bayou Lacombe	Bayou Lacombe	180	30	no limit	no limit	20	10	2	To simplify the model, assume the flow path is Hwy. 190 ditch to Bayou Lacombe. Included in cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1
US Postal Service - Lacombe Post Office	154892	LAG532531	11/30/2012	STP	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	300	45 WA	no limit	no limit	30	15	2	Included in cluster 1 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.4. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Russell's Quick Stop LLC - Bayou Daiquiris	155069	LAG532568	11/30/2012	STP	001	Parish drainage ditch, Bayou Lacombe	Bayou Lacombe	500	45 WA	no limit	no limit	30	15	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.
Python Corporation - Office/Warehouse	156133	LAG532658	11/30/2012	STP	001	Hwy. 190 ditch, Big Branch, Bayou Lacombe	Big Branch	120	45 WA	no limit	no limit	20	10	2	This facility is included in the Hwy. 190 BBB ditch. The ditch is 1.3 km long. This facility enters the ditch at RKM 1.2. The ditch enters BBB at RKM 0.8.
H2O Systems Inc - Cypress Park Subdivision	156693	LA0123862	10/31/2013	STP	001	Cypress Bayou, Bayou Lacombe	Cypress Bayou	120,000	5	2	5	5	2	5	1/1/2011-6/30/2011 DMRs-States no discharge from sample point. Inspection on 10/30/2009 indicated that the sewer plant was never constructed. Not included in the calibration. Included in projections.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
First Baptist Church of Lacombe	157435	LAG532764	11/30/2012	Septic tank	001	Unnamed drainage ditch, unnamed bayou, Bayou Lacombe	Bayou Lacombe	1,170	30	no limit	no limit	20	10	2	Included in cluster 2 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.3. The ditch enters Bayou Lacombe at RKM 11.1.
Feather & Fin Ranch	157509	LA0123986	10/31/2013	Aquaculture wastewater is treated by chlorination pool, sand filter, oxidation pond, and screen. Sanitary wastewater is treated by septic tank, then piped to aquaculture treatment system	001	Local drainage, Big Branch Bayou	Big Branch Bayou	56,000	25	20	no limit	10	10	2	Assume the facility's discharge goes to a ditch along Berry Todd Rd then to Big Branch Bayou. The ditch is 2.0 km long and is named Berry Todd Rd. ditch. The facility enters the ditch at 1.9 km. The ditch enters BBB at RKM 1.9.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Vinson Guard Service Inc	157523	LAG532867	11/30/2012	Septic tank	001	2.97 miles by Hwy. 190 ditch, Bayou Lacombe	Bayou Lacombe	60	45 WA	no limit	no limit	30	15	2	This facility is not near the other clustered facilities. However, to simplify the model, this facility was included in Cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.
Cris Tees	157670	LAG532891	11/30/2012	STP	001	Roadside ditch for 1.01 miles, Bayou Lacombe	Bayou Lacombe	20	45 WA	no limit	no limit	30	15	2	Included in cluster 4 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.0. The ditch enters Bayou Lacombe at RKM 11.1.
Convention Key Cards LLC - Key Marketing	157721	LAG532793	11/30/2012	STP	001	Unnamed drainage ditch, Bayou Lacombe	Bayou Lacombe	80	45 WA	no limit	no limit	30	15	2	Included in cluster 1 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.4. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Sacred Heart Catholic Church	157759	LAG532808	11/30/2012	001: STP, 002: STP	001, 002	001: Roadside ditch for 0.89 miles, Bayou Lacombe. 002: Roadside ditch for 0.75 miles, Bayou Lacombe	Bayou Lacombe	2,000	45 WA	no limit	no limit	30	15	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.
St Tammany Fire Protection District 3 - Fire Station 32	157767	LAG532801	11/30/2012	STP	001	Unnamed ditch, Cypress Bayou	Cypress Bayou	20	45 WA	no limit	no limit	20	10	2	Assume that the flow path is Hwy. 190 ditch to Cypress Bayou. This facility was included in the ditch named Hwy. 190 CB ditch. The ditch is 1.6 km long, and the facility enters the ditch at RKM 0.9. The ditch enters Cypress Bayou at a location where there is no stream data; therefore, the ditch will enter Cypress Bayou at RKM 4.6.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
St Tammany Fire Protection District 3 - Administration Office	157768	LAG532807	11/30/2012	STP	001	Roadside ditch, Bayou Lacombe	Bayou Lacombe	80	45 WA	no limit	no limit	30	15	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.
Salvatore Impastato - New Orleans Bistro	157850	LAG532899	11/30/2012	STP	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	1,580	30	no limit	no limit	20	10	2	Included in cluster 2 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.3. The ditch enters Bayou Lacombe at RKM 11.1.
Kingdom Hall of Jehovah's Witnesses	157861	LAG532992	11/30/2012	STP	001	Effluent pipe, 1.13 miles in Hwy. 434 ditch, Bayou Lacombe	Bayou Lacombe	750	45 WA	no limit	no limit	30	15	2	This facility is included in the Hwy 434/190 ditch BL. The ditch is 2.2 km long, and the facility enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.0.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Mottie McClary/Southern Motor Carrier Safety Consultants	157892	LAG532847	11/30/2012	STP	001	Roadside ditch, Cypress Bayou, Bayou Lacombe	Cypress Bayou	40	45 WA	no limit	no limit	20	10	2	To simplify the model, assume that the flow path is Hwy. 190 ditch to Cypress Bayou. This facility was included in the ditch named Hwy. 190 CB ditch. The ditch is 1.6 km long, and the facility enters the ditch at RKM 0.8. The ditch enters Cypress Bayou at a location where there is no stream data; therefore, the ditch will enter Cypress Bayou at RKM 4.6.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
St Tammany Parish Government - University Square WWTP	158419	LA0124451	6/30/2014	POTW	001	Pipe, Big Branch Bayou, Bayou Lacombe	Big Branch Bayou	300,000 from effective date of permit through phase II construction. 600,000 from completion of phase II construction through expir date of permit.	10	5	5	---	---	---	Not included in the model since the facility was not built at the time of the survey. There are no plans to start construction in the near future. No allocation was given to this facility.
John Davis Park Community Center	162031	LAG533019	11/30/2012	STP	001	0.16 miles by Hwy. 190 ditch, Bayou Lacombe	Bayou Lacombe	5,000	30	no limit	no limit	20	10	2	This facility is not near the other clustered facilities. However, to simplify the model, this facility was included in Cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			Interim Phase I Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
H2O Systems, Inc., St. Tammany Parish Coroner's Complex	165334	LAG533227	11/30/2012	STP	001	Pipe, 1.23 miles in Hwy. 434 ditch, Big Branch Bayou, Bayou Lacombe	Big Branch Bayou	700	45 WA	no limit	no limit	20	10	2	Unable to duplicate flow path. Assume path is Hwy. 434 ditch, I-12 ditch, Big Branch Bayou. This facility is included in the Hwy. 434/I-12 BBB ditch. The ditch is 6.5 km long. This facility enters the ditch at RKM 5.9. The ditch enters BBB at RKM 5.8 but there is no stream data at that point; therefore, the ditch will enter BBB at RKM 5.1.

**WA=Weekly Average

[a] This TMDL was developed for critical low-flow conditions (7Q10). Therefore the WLAs for all stormwater discharges will be 0.0 lb/d under critical low flow conditions.

LDEQ recommends that the primary solutions to the water quality problems for Subsegments 040901 and 040902 include the large-scale regionalization of sewage treatment and the rehabilitation and upgrade of existing problematic (leaks, overflows, improperly sized pipes, etc.) sewage collection and/or treatment systems. In addition, nonpoint loading may contribute to the water quality impairments in Subsegments 040901 and 040902. This includes loading contributed by the MS4 permit for St. Tammany Parish. LDEQ recognizes that portions of Bayou Lacombe may be affected by neighboring wetlands.

The final TMDL loading for Phase I is presented in Tables 7 and 9. The MS4 loading was partitioned from the nonpoint loading, based on drainage areas.

Loading attributed to any MS4 will be included in the WLA. This loading is not intended to be converted into permit limits. The WLA represents the nonpoint loading present within the stream under critical, low-flow conditions, therefore, the WLA does not include stormwater. The MS4 permittee must apply the appropriate BMPs to reduce the nonpoint source loading into the watershed as well as eliminate illicit dischargers. It is recognized that many permitted and unpermitted facilities discharge into the areas regulated by MS4 permits. MS4 dischargers affected by this TMDL are presented in Tables 8 and 10.

Table 7. Subsegment 040901 Total Maximum Daily Load (Sum of UCBOD[1], UNBOD, and SOD) for a 5.0 mg/L dissolved oxygen standard

ALLOCATIONS	SUMMER		WINTER	
	% Reduction Required	(MAY-OCT) (lbs/day)	% Reduction Required	(NOV-APR) (lbs/day)
Point Source Wasteload Allocation (WLA)	Bayou Lacombe: 0% Hwy 36 to I-12. 70% I-12 to Hwy 190.	36	Bayou Lacombe: 0% Hwy 36 to I-12. 70% I-12 to Hwy 190.	36
Point Source Reserve MOS (20%)		9		9
St. Tammany Parish MS4 WLA (Nonpoint Loads)	Bayou Lacombe: 0% Hwy 36 to I-12. 70% I-12 to Hwy 190.	4	Bayou Lacombe: 0% Hwy 36 to I-12. 70% I-12 to Hwy 190.	3
St. Tammany Parish MS4 MOS (Nonpoint Source Reserve MOS) (20%)		1		1
Nonpoint Loads	Bayou Lacombe: 0% Hwy 36 to I-12. 70% I-12 to Hwy 190.	1169	Bayou Lacombe: 0% Hwy 36 to I-12. 70% I-12 to Hwy 190.	924
Nonpoint Source Reserve MOS (20%)		292		231
TMDL		1,512		1,204

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally based on $CBOD_5$***

Table 8. Summary of MS4 loading for Bayou Lacombe Subsegment 040901

Urban Area	Permit Number	MS4 area (acres)	Summer MS4 (lbs/day)	Winter MS4 (lbs/day)
St.Tammany Parish	LAR041024/AI#108405	148.2	5	4

Table 9. Subsegment 040902 Total Maximum Daily Load (Sum of UCBOD[1], UNBOD, and SOD) for a 4.0 mg/L dissolved oxygen standard

ALLOCATIONS	SUMMER		WINTER	
	% Reduction Required	(MAY-OCT) (lbs/day)	% Reduction Required	(NOV-APR) (lbs/day)
Point Source Wasteload Allocation (WLA)	Bayou Lacombe: 40% Hwy 190 to Big Branch Bayou. 0% Big Branch Bayou to Cypress Bayou. 0% Cypress Bayou to RKM 6.1. 10% RKM 6.1 to RKM 0.3. 0% RKM 0.3 to Lake Pontchartrain. Big Branch Bayou: 80%. Cypress Bayou: 80%	96	Bayou Lacombe: 40% Hwy 190 to Big Branch Bayou. 0% Big Branch Bayou to Cypress Bayou. 0% Cypress Bayou to RKM 6.1. 10% RKM 6.1 to RKM 0.3. 0% RKM 0.3 to Lake Pontchartrain. Big Branch Bayou: 80%. Cypress Bayou: 80%	96
Point Source Reserve MOS (20%)		24		24
St. Tammany Parish MS4 WLA (Nonpoint Loads)	Bayou Lacombe: 40% Hwy 190 to Big Branch Bayou. 0% Big Branch Bayou to Cypress Bayou. 0% Cypress Bayou to RKM 6.1. 10% RKM 6.1 to RKM 0.3. 0% RKM 0.3 to Lake Pontchartrain. Big Branch Bayou: 80%. Cypress Bayou: 80%	1743	Bayou Lacombe: 40% Hwy 190 to Big Branch Bayou. 0% Big Branch Bayou to Cypress Bayou. 0% Cypress Bayou to RKM 6.1. 10% RKM 6.1 to RKM 0.3. 0% RKM 0.3 to Lake Pontchartrain. Big Branch Bayou: 80%. Cypress Bayou: 80%	1434
St. Tammany Parish MS4 MOS (Nonpoint Source Reserve MOS) (20%)		436		358
Nonpoint Loads	Bayou Lacombe: 40% Hwy 190 to Big Branch Bayou. 0% Big Branch Bayou to Cypress Bayou. 0% Cypress Bayou to RKM 6.1. 10% RKM 6.1 to RKM 0.3. 0% RKM 0.3 to Lake Pontchartrain. Big Branch Bayou: 80%. Cypress Bayou: 80%	8896	Bayou Lacombe: 40% Hwy 190 to Big Branch Bayou. 0% Big Branch Bayou to Cypress Bayou. 0% Cypress Bayou to RKM 6.1. 10% RKM 6.1 to RKM 0.3. 0% RKM 0.3 to Lake Pontchartrain. Big Branch Bayou: 80%. Cypress Bayou: 80%	7318
Nonpoint Source Reserve MOS (20%)		2224		1830
TMDL		13,419		11,059

Table 10. Summary of MS4 loading for Bayou Lacombe Subsegment 040902

Urban Area	Permit Number	MS4 area (acres)	Summer MS4 (lbs/day)	Winter MS4 (lbs/day)
St.Tammany Parish	LAR041024/AI#108405	3440.4	2179	1792

Table 11. TMDL Summary 040901 Point Sources vs. a DO Criterion of 5.0 mg/L

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
St. Tammany Parish Stormwater	108405	LAR041024	12/4/2012	Stormwater	N/A	Ditches to Bayou Lacombe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	MS4 addressed in model and TMDL. This TMDL will not impose permit limits.
WTSO Utilities, Beau Village Subdivision	33916	LAG570118	Permit not reauthorized due to outstanding fees or penalties that are past due. EDMS document 8/21/2009.	Oxidation pond	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	24,000	10	no limit	no limit	30000	5	2	2	This facility is included in the Beau Village Ditch. The ditch is 3.0 km long, and the facility enters the ditch at RKM 2.9. The ditch enters Bayou Lacombe at RKM 14.6.
Frito-Lay Inc	41574	LAG530665	11/30/2012	STP	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	300	45 WA	no limit	no limit	375	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.
Central Progressive Bank - Operations Center	43188	LAG530822	11/30/2012	STP	001	Bayou Lacombe	Bayou Lacombe	<2,500	45 WA	no limit	no limit	3123.8	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Pavestone Co.	52076	LAG480263	11/30/2015	001 & 002: STP	001 & 002	001 & 002: Ditch, Bayou Lacombe	Bayou Lacombe	001: 800, 002: <1,440	001 & 002: 30	no limit	no limit	2798.8	30	*	*	Included in Cluster 2 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.4. The ditch enters Bayou Lacombe at RKM 19.1.
Coast Concrete Service Inc	86020	LAG531123	11/30/2012	STP	001	Private ditch, parish ditch, state ditch, Bayou Lacombe	Bayou Lacombe	200	45 WA	no limit	no limit	250	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.
US Fish & Wildlife Service - Southeast Louisiana Refuges	93344	LAG531332	11/30/2012	STP	001 (visitor center), 002 (office building)	Bayou Lacombe	Bayou Lacombe	001=560, 002=560	45 WA	no limit	no limit	1400	10	5	2	Assume the facility discharges directly to Bayou Lacombe at RKM 12.7.
North Shore Unitarian Universalist Society Church	94618	LAG531308	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	850	45 WA	no limit	no limit	1062.5	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Southern Natural Gas Co - Lacombe Compressor Station	94746	LAG531415	11/30/2012	STP	001	Local drainage, unnamed small tributary, Bayou Lacombe	Bayou Lacombe	<2,500	45 WA	no limit	no limit	3123.8	45	*	*	Assume the flow path is Fish Hatchery Rd ditch-unnamed tributary-Bayou Lacombe. The ditch/trib is 2.1 km long, and the facility enters the ditch at RKM 2.0. The ditch/trib is designated as SNG ditch and enters Bayou Lacombe at RKM 19.4.
Central Progressive Bank - Krentel Road Office/Warehouse Complex	102362	LAG531352	11/30/2012	STP	001	State ditch, Bayou Lacombe	Bayou Lacombe	600	45 WA	no limit	no limit	750	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.
Krentel Road Office Building	116987	LAG531504	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	60	45 WA	no limit	no limit	75	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.
Lacombe Land LLC - The North Institute Project	118350	LAG531823	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	500	45 WA	no limit	no limit	625	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
St Tammany Parish Government - Keller Barn	119164	LAG480356	11/30/2015	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	140	30	no limit	no limit	175	10	5	2	This facility is included in the Keller Barn Ditch. The ditch is 0.9 km long, and the facility enters the ditch at RKM 0.8. The ditch enters Bayou Lacombe at RKM 17.3.
St Tammany Speedway	120304	LAG531589	11/30/2012	Two oxidation ponds	001	Local drainage, Bayou Lacombe	Bayou Lacombe	2,400	45 WA	no limit	no limit	3000	45	*	*	Assume the flow path is Hwy. 36 ditch then to Bayou Lacombe. This facility was included in the ditch named Hwy. 36 ditch BL. The ditch is 4.2 km long, and the facility enters the ditch at RKM 1.3. The ditch enters Bayou Lacombe at RKM 30.0.
St Tammany Parish Fire District # 3 - St Tammany Fire Station # 33	122894	LAG531702	11/30/2012	STP	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	40	45 WA	no limit	no limit	50	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Lacombe Stores LLC	128325	LAG531876	11/30/2012	STP	001	Hwy. 434 roadside ditch, unnamed tributary of Bayou Lacombe, Bayou Lacombe (verified from map in application and ArcGIS). (Approximately 0.9 miles from point of discharge to Bayou Lacombe)	Bayou Lacombe	720	30	no limit	no limit	900	30	*	*	Included in Cluster 2 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.4. The ditch enters Bayou Lacombe at RKM 19.1.
Animal Services Campus - St. Tammany Parish Government	138040	LAG532078	11/30/2012	Extended aeration with chlorination and detention pond	001	Local drainage, Bayou Lacombe	Bayou Lacombe	4,000	30	no limit	no limit	5000	30	*	*	Assume the flow path is Hwy. 36 then Bayou Lacombe. This facility was included in the ditch named Hwy. 36 ditch BL. The ditch is 4.2 km long, and the facility enters the ditch at RKM 4.1. The ditch enters Bayou Lacombe at RKM 30.0.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
H&M Metal Express LLC - Patten's Metal Express	149786	LAG532240	11/30/2012	STP	001	Ditch, parish drainage ditch, Bayou Lacombe	Bayou Lacombe	40	45 WA	no limit	no limit	50	45	*	*	Included in Cluster 1 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.6. The ditch enters Bayou Lacombe at RKM 19.1.
Journey Fellowship Church Inc	151676	LAG541687	6/30/2013	ATU	001	Retention pond, 2.01 miles in unnamed ditch, Bayou Lacombe	Bayou Lacombe	7,500	30	no limit	no limit	9375	30	*	*	Included in Cluster 2 on Hwy. 434/I-12 BL ditch. The cluster enters the ditch at RKM 1.4. The ditch enters Bayou Lacombe at RKM 19.1.
Axonic, LLC, Neurology Clinic	155402	LAG532735	11/30/2012	ATU	001	Hwy. 434 ditch, other drainage, Bayou Lacombe	Bayou Lacombe	1,000	45 WA	no limit	no limit	1250	45	*	*	Assume the flow path is Hwy. 434 ditch, I-12 ditch, Bayou Lacombe. This facility enters the Hwy. 434/I-12 ditch at RKM 2.6, and the ditch enters Bayou Lacombe at RKM 19.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description from Permit	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Carmelite Spirituality Center - Sisters of Mt Carmel	157591	LAG532869	11/30/2012	STP	001	Effluent pipe, Bayou Lacombe	Bayou Lacombe	500	45 WA	no limit	no limit	625	10	5	2	Assume this facility discharges directly to Bayou Lacombe at RKM 15.0.

* No limit for this parameter as a result of this TMDL. **WA=Weekly Average

[a] This TMDL was developed for critical low-flow conditions (7Q10). Therefore the WLAs for all stormwater discharges will be 0.0 lb/d under critical low flow conditions.

Table 12. TMDL Summary 040902 Point Sources vs. a DO Criterion of 4.0 mg/L

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
St. Tammany Parish Stormwater	108405	LAR041024	12/4/2012	Stormwater	N/A	Ditches to Bayou Lacombe	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	MS4 addressed in model and TMDL. This TMDL will not impose permit limits.
Lacombe Car Care	6470	LAG531601	11/30/2012	Mechanical treatment plant	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	290	45 WA	no limit	no limit	362.5	20	10	2	Included in cluster 4 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.0. The ditch enters Bayou Lacombe at RKM 11.1.
Brier Lake Utilities Inc - Brier Lake Estates	31079	LAG570209	4/30/2014	Lagoon	001	Cypress Bayou, Bayou Lacombe	Cypress Bayou	40,000	10	no limit	no limit	75	5	2	2	This facility appears to discharge directly into Cypress Bayou. The facility is located in the portion of Cypress Bayou where there is no data; therefore, the facility was input at RKM 4.8.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Goux Enterprises Inc - Lacombe Nursing Home	33986	LAG540330	6/30/2013	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	9,800	30	no limit	no limit	12250	20	10	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1.
Janie Brown's Casual Restaurant	40796	LAG530691	11/30/2012	STP	001	Roadside ditch, Bayou Lacombe	Bayou Lacombe	1,750	30	no limit	no limit	2187.5	20	10	2	This facility is included in the ditch designated as Hwy. 190 ditch BL. The ditch is 2.2 km long, and the facility enters the ditch at RKM 1.9. The ditch enters Bayou Lacombe at RKM 11.1.
ICO Corp	41881	LAG530256	11/30/2012		001	Cypress Bayou, Bayou Lacombe	Cypress Bayou	80	45 WA	no limit	no limit	70000	10	2	2	Due to the proximity of the facility to Cypress Bayou, assume it's a direct discharge. The facility was input at RKM 4.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
M&Ms Snoballs	42348	LAG530845	11/30/2012	Septic tank	001	Local drainage, Bayou Lacombe	Bayou Lacombe	270	45 WA	no limit	no limit	337.5	20	10	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.
Regina Coeli Child Development Center - Lacombe/Mandeville Head Start	43023	LAG530456	11/30/2012	Sanitary treatment system	001	Ditch, unnamed stream, Bayou Lacombe	Bayou Lacombe	1,950	30	no limit	no limit	2437.5	20	10	2	This facility is included in the ditch designated as Hwy. 190 ditch BL. The ditch is 2.2 km long, and the facility enters the ditch at RKM 2.1. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Abraham Williams Apartments	43087	LAG530471	11/30/2012	STP	001	Cousin Street drain, Bayou Lacombe	Bayou Lacombe	1,940	30	no limit	no limit	2425	20	10	2	This facility is not near the other clustered facilities. However, to simplify the model, this facility was included in Cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1.
Chahta Ima Elementary School	43400	LAG540698	6/30/2013	STP	001	Ditch, Bayou Lacombe	Bayou Lacombe	7,950	30	no limit	no limit	9937.5	20	10	2	Included in cluster 3 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.1. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Bayou Lacombe Middle School	43406	LAG570058	4/30/2014	STP	001	Ditch, Bayou Lacombe	Bayou Lacombe	4,600	10	no limit	no limit	5750	10	5	2	This facility is included in the ditch designated as Hwy. 190 ditch BL. The ditch is 2.2 km long, and the facility enters the ditch at RKM 0.9. The ditch enters Bayou Lacombe at RKM 11.1.
Russell's Quick Stop LLC	70935	LAG532035	11/30/2012	STP	001	Hwy. 190 ditch, Bayou Lacombe	Bayou Lacombe	1,855	30	no limit	no limit	2318.8	20	10	2	Included in cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1
J&S Bayou Gas & Go LLC	75143	LAG532912	11/30/2012	STP	001	Local drainage for 0.43 miles, Bayou Lacombe	Bayou Lacombe	120	45 WA	no limit	no limit	150	20	10	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
A&L Enterprise LLC	75810	LAG532848	11/30/2012	STP	001	Roadside ditch for 1.46 miles, Bayou Lacombe	Bayou Lacombe	100	45 WA	no limit	no limit	125	20	10	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.
J & S Chevron LLC	84112	LAG531082	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	3,100	30	no limit	no limit	3875	20	10	2	Included in cluster 3 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.1. The ditch enters Bayou Lacombe at RKM 11.1.
Sal & Judy's Restaurant	89241	LAG531238	11/30/2012	STP	001	Bayou Lacombe	Bayou Lacombe	3,630	30	no limit	no limit	4537.5	20	10	2	Included in cluster 3 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.1. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Southeastern Louisiana Water & Sewer Co.,LLC, Medcath WWTP, LA Medical Center & Heart Hospital	94173	LAG570479	4/30/2014	STP	001	Effluent pipe to local drainage pond to Hwy 434 ditch, 1-12 drainage ditch, Big Branch, Bayou Lacombe	Big Branch	60,000	10	no limit	no limit	100	5	2	2	This facility is included in the Hwy. 434/I-12 BBB ditch. The ditch is 6.5 km long. This facility enters the ditch at RKM 3.7. The ditch enters BBB at RKM 5.8 but there is no stream data at that point; therefore, the ditch will enter BBB at RKM 5.1.
Hwy 434 Mini Storage Inc	97944	LAG531397	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	20	45 WA	no limit	no limit	25	20	10	2	Assume the flow path is Hwy. 434 ditch-Hwy. 190 ditch-Bayou Lacombe. This facility is included in the Hwy 434/190 ditch BL. The ditch is 2.2 km long, and the facility enters the ditch at RKM 2.1. The ditch enters Bayou Lacombe at RKM 11.0.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Carollo's Shopping Center	99609	LAG531547	11/30/2012	ATU	001	Local drainage, highway ditch, Bayou Lacombe	Bayou Lacombe	>2,500 & <5,000	30	no limit	no limit	6248.8	20	10	2	Included in cluster 2 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.3. The ditch enters Bayou Lacombe at RKM 11.1.
OW Inc - Bayou Mini Storage	101375	LAG531325	11/30/2012	Mechanical treatment plant	001	Big Branch, Bayou Lacombe	Big Branch	20	45 WA	no limit	no limit	50	10	2	2	This facility is included in the Hwy. 190 BBB ditch. The ditch is 1.3 km long. To simplify the model, assume this facility enters the ditch at RKM 0.6. The ditch enters BBB at RKM 0.8.
Folger Coffee Co - Lacombe Distribution Center	114220	LAG531459	11/30/2012	STP	001	Roadside ditch, Big Branch Bayou, Bayou Lacombe	Big Branch Bayou	4,000	30	no limit	no limit	875	10	2	2	Assume the ditch is 0.4 km long and the facility enters the ditch at RKM 0.3. The ditch is named Folger ditch. The ditch enters BBB at RKM 8.9; however there is no stream data at this point so the ditch will enter BBB at RKM 4.9.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Village Church Lutheran Inc - The Village Church Lutheran	114927	LAG532765	11/30/2012	STP	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	2,100	30	no limit	no limit	2625	20	10	2	This facility is not near the other clustered facilities. However, to simplify the model, this facility was included in Cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1.
LA Pines Ranch Inc	117076	LAG531595	11/30/2012	Oxidation pond	001	Local drainage, Cypress Bayou, Bayou Lacombe	Cypress Bayou	>2,500 & <5,000	30	no limit	no limit	25	10	2	2	Aerial maps from Bing show an oxidation pond nearby. Due to the proximity of the facility to Cypress Bayou, assume it's a direct discharge. The facility was input at RKM 3.8.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Tiller of the Land	119584	LAG531543	11/30/2012	STP	001	Hwy. 190 ditch, Cypress Bayou, Bayou Lacombe	Cypress Bayou	100	45 WA	no limit	no limit	2500	10	2	2	This facility was included in the ditch named Hwy. 190 CB ditch. The ditch is 1.6 km long, and the facility enters the ditch at RKM 0.6. The ditch enters Cypress Bayou at a location where there is no stream data; therefore, the ditch will enter Cypress Bayou at RKM 4.6.
Highway 434 Retail Space	119750	LAG531587	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	220	30	no limit	no limit	275	20	10	2	This facility is included in the Hwy 434/190 ditch BL. The ditch is 2.2 km long, and the facility enters the ditch at RKM 0.4. The ditch enters Bayou Lacombe at RKM 11.0.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Pepes Mexican Restaurant LLC	122511	LAG531655	11/30/2012	STP	001	Local drainage, Bayou Lacombe	Bayou Lacombe	1,120	30	no limit	no limit	1400	20	10	2	Assume the flow path is Hwy. 190 ditch to Bayou Lacombe. Included in cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1.
Kevin J. Smith Construction Company - Smith Office Building	123821	LAG531695	11/30/2012	STP	001	Unnamed ditch, highway ditch, Cypress Bayou, Bayou Lacombe	Cypress Bayou	200	45 WA	no limit	no limit	100	10	2	2	Assume that the flow path is Hwy. 190 ditch to Cypress Bayou. This facility was included in the ditch named Hwy. 190 CB ditch. The ditch is 1.6 km long, and the facility enters the ditch at RKM 1.4. The ditch enters Cypress Bayou at a location where there is no stream data; therefore, the ditch will enter Cypress Bayou at RKM 4.6.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
A to Z Preschool LLC	127495	LAG531853	11/30/2012	STP	001	Unnamed ditch, unnamed slough, Cypress Bayou, Bayou Lacombe	Cypress Bayou	1,700	45 WA	no limit	no limit	1462.5	10	2	2	Assume that the flow path is Hwy. 190 ditch to Cypress Bayou. This facility was included in the ditch named Hwy. 190 CB ditch. The ditch is 1.6 km long, and the facility enters the ditch at RKM 1.5. The ditch enters Cypress Bayou at a location where there is no stream data; therefore, the ditch will enter Cypress Bayou at RKM 4.6.
St. Tammany Parish Sheriff's Office - Lacombe Substation	130003	LAG531889	11/30/2012	STP	001	Highway ditch, Bayou Lacombe	Bayou Lacombe	500	45 WA	no limit	no limit	625	20	10	2	Included in cluster 4 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.0. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Anna Elliot - 28105 Hwy 190 Building	142046	LAG532100	11/30/2012	ATU	001	Pipe, Unnamed ditch, Bayou Lacombe	Bayou Lacombe	80	45 WA	no limit	no limit	100	20	10	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.
Taxpayer Properties II Lacombe LLC - Family Dollar	149801	LAG532247	11/30/2012	STP	001	Hwy. 190 ditch, unnamed canal, Bayou Lacombe	Bayou Lacombe	80	45 WA	no limit	no limit	100	20	10	2	Included in cluster 4 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.0. The ditch enters Bayou Lacombe at RKM 11.1.
Lloyd's Bayou Bargains	151841	LAG532286	11/30/2012	STP	001	Pipe, Main Street ditch, Bayou Lacombe	Bayou Lacombe	180	30	no limit	no limit	225	20	10	2	To simplify the model, assume the flow path is Hwy. 190 ditch to Bayou Lacombe. Included in cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
US Postal Service - Lacombe Post Office	154892	LAG532531	11/30/2012	STP	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	300	45 WA	no limit	no limit	375	20	10	2	Included in cluster 1 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.4. The ditch enters Bayou Lacombe at RKM 11.1.
Russell's Quick Stop LLC - Bayou Daiquiris	155069	LAG532568	11/30/2012	STP	001	Parish drainage ditch, Bayou Lacombe	Bayou Lacombe	500	45 WA	no limit	no limit	625	20	10	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.
Python Corporation - Office/Warehouse	156133	LAG532658	11/30/2012	STP	001	Hwy. 190 ditch, Big Branch, Bayou Lacombe	Big Branch	120	45 WA	no limit	no limit	937.5	10	2	2	This facility is included in the Hwy. 190 BBB ditch. The ditch is 1.3 km long. This facility enters the ditch at RKM 1.2. The ditch enters BBB at RKM 0.8.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
H2O Systems Inc - Cypress Park Subdivision	156693	LA0123862	10/31/2013	STP	001	Cypress Bayou, Bayou Lacombe	Cypress Bayou	120,000	5	2	5	150000	5	2	5	1/1/2011-6/30/2011 DMRs-States no discharge from sample point. Inspection on 10/30/2009 indicated that the sewer plant was never constructed. Not included in the calibration. Included in projections.
First Baptist Church of Lacombe	157435	LAG532764	11/30/2012	Septic tank	001	Unnamed drainage ditch, unnamed bayou, Bayou Lacombe	Bayou Lacombe	1,170	30	no limit	no limit	1462.5	20	10	2	Included in cluster 2 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.3. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Feather & Fin Ranch	157509	LA0123986	10/31/2013	Aquaculture wastewater is treated by chlorination pool, sand filter, oxidation pond, and screen. Sanitary wastewater is treated by septic tank, then piped to aquaculture treatment system	001	Local drainage, Big Branch Bayou	Big Branch Bayou	56,000	25	20	no limit	6250	10	2	2	Assume the facility's discharge goes to a ditch along Berry Todd Rd then to Big Branch Bayou. The ditch is 2.0 km long and is named Berry Todd Rd. ditch. The facility enters the ditch at 1.9 km. The ditch enters BBB at RKM 1.9.
Vinson Guard Service Inc	157523	LAG532867	11/30/2012	Septic tank	001	2.97 miles by Hwy. 190 ditch, Bayou Lacombe	Bayou Lacombe	60	45 WA	no limit	no limit	75	20	10	2	This facility is not near the other clustered facilities. However, to simplify the model, this facility was included in Cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Cris Tees	157670	LAG532891	11/30/2012	STP	001	Roadside ditch for 1.01 miles, Bayou Lacombe	Bayou Lacombe	20	45 WA	no limit	no limit	25	20	10	2	Included in cluster 4 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.0. The ditch enters Bayou Lacombe at RKM 11.1.
Convention Key Cards LLC - Key Marketing	157721	LAG532793	11/30/2012	STP	001	Unnamed drainage ditch, Bayou Lacombe	Bayou Lacombe	80	45 WA	no limit	no limit	100	20	10	2	Included in cluster 1 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.4. The ditch enters Bayou Lacombe at RKM 11.1.
Sacred Heart Catholic Church	157759	LAG532808	11/30/2012	001: STP, 002: STP	001, 002	001: Roadside ditch for 0.89 miles, Bayou Lacombe. 002: Roadside ditch for 0.75 miles, Bayou Lacombe	Bayou Lacombe	2,000	45 WA	no limit	no limit	2500	20	10	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
St Tammany Fire Protection District 3 - Fire Station 32	157767	LAG532801	11/30/2012	STP	001	Unnamed ditch, Cypress Bayou	Cypress Bayou	20	45 WA	no limit	no limit	25	10	2	2	Assume that the flow path is Hwy. 190 ditch to Cypress Bayou. This facility was included in the ditch named Hwy. 190 CB ditch. The ditch is 1.6 km long, and the facility enters the ditch at RKM 0.9. The ditch enters Cypress Bayou at a location where there is no stream data; therefore, the ditch will enter Cypress Bayou at RKM 4.6.
St Tammany Fire Protection District 3 - Administration Office	157768	LAG532807	11/30/2012	STP	001	Roadside ditch, Bayou Lacombe	Bayou Lacombe	80	45 WA	no limit	no limit	100	20	10	2	Assume the flow path is Hwy. 190 ditch to BL. Included in cluster 5 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.1.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Salvatore Impastato - New Orleans Bistro	157850	LAG532899	11/30/2012	STP	001	Unnamed ditch, Bayou Lacombe	Bayou Lacombe	1,580	30	no limit	no limit	1975	20	10	2	Included in cluster 2 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 1.3. The ditch enters Bayou Lacombe at RKM 11.1.
Kingdom Hall of Jehovah's Witnesses	157861	LAG532992	11/30/2012	STP	001	Effluent pipe, 1.13 miles in Hwy. 434 ditch, Bayou Lacombe	Bayou Lacombe	750	45 WA	no limit	no limit	937.5	20	10	2	This facility is included in the Hwy 434/190 ditch BL. The ditch is 2.2 km long, and the facility enters the ditch at RKM 0.5. The ditch enters Bayou Lacombe at RKM 11.0.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
Mottie McClary/Southern Motor Carrier Safety Consultants	157892	LAG532847	11/30/2012	STP	001	Roadside ditch, Cypress Bayou, Bayou Lacombe	Cypress Bayou	40	45 WA	no limit	no limit	150	10	2	2	To simplify the model, assume that the flow path is Hwy. 190 ditch to Cypress Bayou. This facility was included in the ditch named Hwy. 190 CB ditch. The ditch is 1.6 km long, and the facility enters the ditch at RKM 0.8. The ditch enters Cypress Bayou at a location where there is no stream data; therefore, the ditch will enter Cypress Bayou at RKM 4.6.
St Tammany Parish Government - University Square WWTP	158419	LA0124451	6/30/2014	POTW	001	Pipe, Big Branch Bayou, Bayou Lacombe	Big Branch Bayou	300,000 from effective date of permit through phase II construction. 600,000 from completion of phase II construction through expir date of permit.	10	5	5	---	---	---	---	Not included in the model since the facility was not built at the time of the survey. There are no plans to start construction in the near future. No allocation was given to this facility.

Facility	AI No.	Permit No.	Permit Expiration Date	Facility Type	Outfall No.	Outfall Description	First Named Receiving Waterbody	Current Expected Flow	Current Monthly Average Concentration Limits			TMDL Flow	TMDL Monthly Average Concentration Limits			
								GPD	BOD5/CBOD5, mg/L**	NH_3-N, mg/L	DO, mg/L	GPD	BOD5/CBOD5, mg/L	NH_3-N, mg/L	DO, mg/L	Modeling Comments
John Davis Park Community Center	162031	LAG533019	11/30/2012	STP	001	0.16 miles by Hwy. 190 ditch, Bayou Lacombe	Bayou Lacombe	5,000	30	no limit	no limit	6250	20	10	2	This facility is not near the other clustered facilities. However, to simplify the model, this facility was included in Cluster 6 on Hwy. 190 ditch BL. The ditch is 2.2 km long, and the cluster enters the ditch at RKM 0.3. The ditch enters Bayou Lacombe at RKM 11.1.
H2O Systems, Inc., St. Tammany Parish Coroner's Complex	165334	LAG533227	11/30/2012	STP	001	Pipe, 1.23 miles in Hwy. 434 ditch, Big Branch Bayou, Bayou Lacombe	Big Branch Bayou	700	45 WA	no limit	no limit	1975	10	2	2	Unable to duplicate flow path. Assume path is Hwy. 434 ditch, I-12 ditch, Big Branch Bayou. This facility is included in the Hwy. 434/I-12 BBB ditch. The ditch is 6.5 km long. This facility enters the ditch at RKM 5.9. The ditch enters BBB at RKM 5.8 but there is no stream data at that point; therefore, the ditch will enter BBB at RKM 5.1.

* No limit for this parameter as a result of this TMDL. **WA=Weekly Average

[a] This TMDL was developed for critical low-flow conditions (7Q10). Therefore the WLAs for all stormwater discharges will be 0.0 lb/d under critical low flow conditions.

EXECUTIVE SUMMARY

This report presents the results of a watershed-based, calibrated modeling analysis of Bayou Lacombe, subsegments 040901 and 040902. The modeling was conducted to establish a TMDL for biochemical oxygen-demanding pollutants for the Bayou Lacombe watershed. The model covers the Bayou Lacombe watershed. Bayou Lacombe is located in south Louisiana and these subsegments include Big Branch Bayou , Cypress Bayou, and many unnamed tributaries. Bayou Lacombe is in the Lake Pontchartrain Basin and this study includes Water Quality Subsegments 040901 and 040902. Bayou Lacombe Subsegment 040901 is primarily forest land. Bayou Lacombe Subsegment 040902 is primarily forest land with some brackish marsh.

According to LDEQ's TEMPO database, there were 70 permitted dischargers located within these two subsegments at the time of development of this TMDL. This includes one MS4 permittee. There were too many facilities to sample. One facility was sampled. Current permit information was reviewed for all of the facilities. There are approximately 48 businesses listed in this TMDL.

The watershed drains areas that are regulated by one MS4 permit. The areas covered by the MS4 permit include many permitted and unpermitted facilities. While LDEQ does assume responsibility for these facilities, partial responsibility belongs to the MS4 permittee to ensure that water draining from the area of coverage does not impact the named waterbody. Reductions in the nonpoint loading presented in this report also apply to MS4 regulated areas.

The impact of stormwater loading on the waterbody under critical conditions is difficult to determine. Frequent monitoring at many sites may be monetarily and logistically prohibitive. Therefore it is impractical to set MS4 permit limits. However, appropriate BMP measures shall be incorporated into the MS4 permits to minimize the impacts of stormwater loads on water quality. All facilities discharging into the MS4 permit area should have appropriate limits that ensure the protection of the water quality. Such BMP measures should include the location of all wastewater discharges, the elimination of illicit wastewater discharges, the regionalization of wastewater treatment, rehabilitating and upgrading sewer collection system lines, and other appropriate activities. Stormwater permits may also include a monitoring component, provided it is cost effective.

Input data for the calibration model was developed from data collected during the October 6-10, 2008 intensive survey and data collected by LDEQ at WQN stations 0300 and 1047 in the watershed. The nonpoint source loads included nonpoint loading not associated with flow. A satisfactory calibration was achieved for the main stem. The Louisiana Total Maximum Daily Load Technical Procedures, Revision 12, have been followed in this study.

The various spreadsheets that were used in conjunction with the modeling program may be found in the appendices. Projections are adjusted to meet the dissolved oxygen criteria by reducing total nonpoint source loads. At the time of the survey, the Bayou Lacombe tributaries could not meet the established DO criterion in most of the reaches. However, the DO criteria were met in most reaches of the mainstem of Bayou Lacombe.

Modeling was limited to low flow scenarios for both the calibration and the projections since the constituent of concern was dissolved oxygen and the available data was limited to low flow conditions.

The model used was LAQUAL, a modified version of QUAL-TX, which has been adapted to address specific needs of Louisiana waters.

Bayou Lacombe, Subsegments 040901 and 040902, is on the 2008 Integrated Report. Subsegment 040901 is also on EPA's Consent Decree (E. D. La. 2002). Subsegment 040901 was found to be "not supporting" its designated uses of Fish and Wildlife Propagation and Outstanding Natural Resource. It was found to be supporting its designated uses of Primary and Secondary Contact Recreation on the 2008 303(d) list.

Subsegment 040902 was found to be "not supporting" its designated use of Fish and Wildlife Propagation. It was found to be supporting its designated uses of Primary and Secondary Contact Recreation and Outstanding Natural Resource on the 2008 303(d) list.

Bayou Lacombe, subsegments 040901 and 040902, was subsequently scheduled for TMDL development with other listed waters in the Lake Pontchartrain Basin. Tables 1 - 3 list the 2006, 2008, and Draft 2010 Integrated Reports for Subsegments 040901 and 040902.

This TMDL establishes load limitations for oxygen-demanding substances and goals for reduction of those pollutants. LDEQ's position is that when oxygen-demanding loads from point and nonpoint sources are reduced in order to ensure that the dissolved oxygen criterion is supported, nutrients are also reduced. The implementation of this TMDL through wastewater discharge permits and implementation of best management practices to control and reduce runoff of soil and oxygen-demanding pollutants from nonpoint sources in the watershed will also reduce the nutrient loading from those sources.

Bayou Lacombe was not listed for nutrients on any 303(d) list or EPA's Consent Decree (E. D. La. 2002). Louisiana does not have numeric nutrient criteria at the present time. Waterbodies that have a nutrient impairment were not based on a quantitative assessment of historical nutrient data. The impairment was based on an evaluative assessment that may have included dissolved oxygen. LDEQ and EPA plan to reevaluate nutrient impairments for waterbodies. As a result, both EPA and LDEQ expect the nutrient impairment to change from category 5 (impairment exists; TMDL required) to category 3 (insufficient data) for the 2010 Integrated Report. A TMDL for dissolved oxygen should adequately address any potential nutrient impairments, in the absence of numeric nutrient criteria and a quantitative assessment.

LDEQ is developing numeric nutrient criteria for waterbody types based on ecoregions in accordance with LDEQ's plan "Developing Nutrient Criteria for Louisiana 2006" which can be found at:

> http://www.deq.louisiana.gov/portal/Portals/0/planning/LA%20Nutrient%20Strategy%20Plan%20Final%20FOR%20WEB.pdf.

Waterbody types for nutrient criteria development in Louisiana are 1) inland rivers and streams; 2) freshwater wetlands; 3) freshwater lakes and reservoirs; 4) big rivers and floodplains/boundary rivers and associated water bodies; and 5) estuarine and coastal waters (including up to Louisiana's three mile boundary in the Gulf of Mexico). Proposed approaches for nutrient criteria development are currently under review by LDEQ and EPA. Nutrient criteria can be implemented upon state promulgation and EPA approval as per 40 CFR 131.21.

Upon development of nutrient criteria, a subsequent quantitative assessment of the waterbodies, and the development of full nutrient models, nutrient limits may be established for all facilities discharging to impaired waterbodies in the Lake Pontchartrain Basin. LDEQ recommends that all facilities discharging to impaired waterbodies take a proactive approach and prepare to receive nutrient (total nitrogen and total phosphorus) limitations in the near future. Such a proactive approach should include nutrient monitoring and documentation through facility Discharge Monitoring Reports (DMRs) in order to assess their nutrient loads and the need to modify their treatment processes for nutrient removal.

A calibrated water quality model for the watershed was developed and projections were modeled to quantify the non-point source load reductions which would be necessary in order for Bayou Lacombe, subsegments 040901 and 040902, to comply with its established water quality standards and criteria. This report presents the results of that analysis.

This TMDL will implement a phased approach, as shown in Table 4. This report represents Phase I of the TMDL. However, the implementation will occur in a phased manner. Phase II will be completed after LDEQ has had the opportunity to reevaluate the DO criteria for the watershed, and if needed, the DO criteria has been revised and promulgated. The resulting allocations for Phase I are presented in Tables 5 and 6.

LDEQ is in the process of reevaluating Louisiana's ecoregions and modifying the ecoregion boundaries where appropriate. The dissolved oxygen criteria for Bayou Lacombe may be revised. Therefore, LDEQ has run a preliminary summer projection based on the DO target of 2.3 mg/L for subsegment 040901 and 3.8 mg/L for subsegment 040902. This projection is an indication of what the required load reductions may be if the DO criteria is revised for appropriate waterbodies in the Lake Pontchartrain Basin. The final required load reductions may be different based on the final DO criteria. Based upon a summer target of 2.3 mg/L and 3.8 mg/L, the following reductions of all loading would be required on the mainstem of Bayou Lacombe: 0% from Hwy. 36 to I-12, 60% from I-12 to Hwy. 190, 40% from Hwy. 190 to Big Branch Bayou, 0% from Big Branch Bayou to Cypress Bayou, 0% from Cypress Bayou to RKM 6.1, 2% from RKM 6.1 to RKM 0.3, and 0% from RKM 0.3 to Lake Pontchartrain. Based upon a DO summer target of 3.8 mg/L, a 73% reduction of all loading would be required for Big Branch Bayou and Cypress Bayou.

In order to reasonably distribute the load reductions between the existing point and nonpoint sources, LDEQ determined that all facilities will be permitted according to the Phase I Implementation Plan as stated in the Technical Summary and Conclusion sections of this report.

The table used to develop point source allocations and reductions is shown in Table 13.

Numerous individual commercial package plants and individual residential treatment units discharging directly or indirectly within the watershed are suspected of having a major impact on the Bayou Lacombe. For St. Tammany Parish, LDEQ recommends incorporating such dischargers into a regional collection and treatment system.

Table 13. Point Source Allocations to Percent Reductions

RELATION OF POINT SOURCE ALLOCATIONS TO PERCENT REDUCTIONS FROM 30/15			
Point Source Allocation			% reduction from secondary treatment
CBOD5	NH3-N	UBOD	
30	15	133.5	
20	10	89	33%
10	10	66	51%
10	5	44.5	67%
10	2	31.6	76%
5	2	20.1	85%
0	0	0	100%

RELATION OF POINT SOURCE ALLOCATIONS TO PERCENT REDUCTIONS FROM 10/5 limits			
Point Source Allocation			% reduction
CBOD5	NH3-N	UBOD	
10	5	44.5	
10	2	31.6	29%
5	2	20.1	55%
0	0	0	100%

RELATION OF POINT SOURCE ALLOCATIONS TO PERCENT REDUCTIONS FROM 45/15 TREATMENT			
Point Source Allocation			% reduction
CBOD5	NH3-N	UBOD	
45	15	168	
30	15	133.5	21%
20	10	89	47%
10	10	66	61%
10	5	44.5	74%
10	2	31.6	81%
5	2	20.1	88%
0	0	0	100%

RELATION OF POINT SOURCE ALLOCATIONS TO PERCENT REDUCTIONS FROM 10/10 TREATMENT			
Point Source Allocation			% reduction
CBOD5	NH3-N	UBOD	
10	10	66	
10	5	44.5	33%
10	2	31.6	52%
5	2	20.1	70%
0	0	0	100%

RELATION OF POINT SOURCE ALLOCATIONS TO PERCENT REDUCTIONS FROM 25/20 TREATMENT			
Point Source Allocation			% reduction
CBOD5	NH3-N	UBOD	
25	20	143.5	
20	10	89	38%
10	10	66	54%
10	5	44.5	69%
10	2	31.6	78%
5	2	20.1	86%
0	0	0	100%

DEQ will work with other agencies such as local Soil Conservation Districts to implement agricultural best management practices in the watershed through other Clean Water Act Programs such as the 319 program, where appropriate. LDEQ will also continue to monitor the waters to determine whether standards are being attained.

In accordance with Section 106 of the Federal Clean Water Act and under the authority of the Louisiana Environmental Quality Act, the LDEQ has established a comprehensive program for monitoring the quality of the state's surface waters. The LDEQ collects surface water samples at various locations, utilizing appropriate sampling methods and procedures for ensuring the quality of the data collected. The objectives of the surface water monitoring program are to determine the quality of the state's surface waters, to develop a long-term data base for water quality trend analysis, and to monitor the effectiveness of pollution controls. The data obtained through the surface water

monitoring program is used to develop the state's biennial 305(b) report (*Water Quality Inventory*) and the 303 (d) list of impaired waters, also known as the Integrated Report. This information is also utilized in establishing priorities for the LDEQ nonpoint source program.

The LDEQ is continuing to implement a watershed approach to the surface water quality monitoring. Currently, LDEQ utilizes a four year sampling cycle. Approximately one quarter of the state's watersheds will be sampled in each year so that all of the state's watersheds will be sampled within the four year cycle. This will allow the LDEQ to determine whether there has been any improvement in water quality following implementation of the TMDLs. As the monitoring results are evaluated at the end of each year, waterbodies may be added to or removed from the 303(d) list.

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1. Definitions/Acronyms/Abbreviations

BAC	Bacterial Criteria
BMP	Best Management Practices
BOD	Biological Oxygen Demand
CBOD	Carbonaceous Biological Oxygen Demand
DO	Dissolved Oxygen
EPA	United States Environmental Protection Agency
TMDL	Total Maximum Daily Load
LA	Load Allocation
LAQUAL	Steady State Water Quality Model developed specifically for Louisiana Waterbodies
LDEQ	Louisiana Department of Environmental Quality
LMRAP	Lower Mississippi River Alluvial Plain
LTP	Louisiana Total Daily Maximum Daily Load Technical Procedures SOP
MOS	Margin of Safety
MS4	Stormwater Discharge From Municipal Separate Storm Sewer System
NBOD	Nitrogenous Biological Oxygen Demand
NPDES	National Pollutant Discharge Elimination System
NPS	Nonpoint Source
SOD	Sediment Oxygen Demand
SOP	Standard Operating Procedure
STEADY STATE MODEL	Fate and transport model that uses constant values of input variables to predict constant values of receiving water quality concentrations (USEPA, 1991a.)
TEMPO	Tools for Environmental Management and Protection Organizations
UA	Urbanized Area
WLA	Wasteload Allocation
WQN	Water Quality Network

2. Introduction

Bayou Lacombe, Subsegments 040901 and 040902, was on the 2006, 2008, and Draft 2010 Integrated Reports and EPA's Consent Decree (E. D. La. 2002). Subsegment 040901 was found to be "not supporting" its designated uses of Fish and Wildlife Propagation and Outstanding Natural Resource. It was found to be supporting its designated uses of Primary and Secondary Contact Recreation on the 2008 303(d) list. The suspected causes of impairment are chloride, total dissolved solids, turbidity, pH, and dissolved oxygen. The suspected source of impairment for dissolved oxygen is on-site treatment systems (septic systems and similar decentralized systems).

Subsegment 040902 was found to be "not supporting" its designated use of Fish and Wildlife Propagation. It was found to be supporting its designated uses of Primary and Secondary Contact Recreation and Outstanding Natural Resource on the 2008 303(d) list. The suspected causes of impairment are chloride, sulfates, total dissolved solids, and dissolved oxygen, The suspected source of impairment for dissolved oxygen is unknown source.

Bayou Lacombe was subsequently scheduled for Total Maximum Daily Load (TMDL) development with other listed waters in the Lake Pontchartrain Basin. The suspected causes of impairment are chloride, sulfates, total dissolved solids, fecal coliform, dissolved oxygen (DO), and pH. The suspected source of impairment for dissolved oxygen is unknown source.

Because of the impairment, these subsegments require the development of a total maximum daily load (TMDL) for oxygen-demanding substances. A calibrated water quality model for the Bayou Lacombe watershed, subsegments 040901 and 040902, was developed and projections for current dissolved oxygen standards were run to quantify the wasteload required to meet established dissolved oxygen criteria. This report presents the TMDL development and results.

3. Study Area Description

3.1 General Information

"The Lake Pontchartrain Basin, located in southeastern Louisiana, consists of the tributaries and distributaries of Lake Pontchartrain, a large estuarine lake. The basin is bounded on the north by the Mississippi state line, on the west and south by the east bank Mississippi River levee, on the east by the Pearl River Basin and on the southeast by Breton and Chandeleur Sounds. This basin includes Lake Borgne, Breton Sound, Chandeleur Sound and the Chandeleur Islands. The northern part of the basin consists of wooded uplands, both pine and hardwood forests. The southern portions of the basin consist of cypress-tupelo swamps and lowlands and brackish and saline marshes. The marshes of the southeastern part of the basin constitute the most rapidly eroding area along the Louisiana coast. Elevations in this basin range from minus five feet at New Orleans to over two hundred feet near the Mississippi border." (LA DEQ, 2000)

This TMDL addresses Bayou Lacombe, subsegments 040901 and 040902, located in the Lake Pontchartrain Basin in St. Tammany Parish. This area is typical of the basin and is primarily comprised of forest land, urban development, and brackish marsh as documented in Tables 14 and 15 (LADEQ, 1999).

Detailed land cover maps of Subsegments 040901 and 040902 are also included in Appendix H2. Average annual precipitation in the segment, based on the nearest Louisiana Climatic Station, is 60 - 64 inches based on a 30-year period of record (LSU, 1999). A Louisiana average annual precipitation map is included in Appendix H3.

Table 14. Land Uses in Subsegment 040901 Bayou Lacombe

Land Type	Acres 040901	Percent Land Cover 040901
Evergreen Forest Land	36540	83.23
Deciduous Forest land	3592	8.18
Urban or Built-up Land	2182	4.97
Developed Low Density	786	1.79
Pasture/Hay	542	1.23
Forested Wetland	128	0.29
Water	108	0.25
Developed Medium Density	11	0.03
Transitional Areas	6	0.01
Developed High Density	5	0.01

Table 15. Land Uses in Subsegment 040902 Bayou Lacombe

Land Type	Acres 040902	Percent Land Cover 040902
Evergreen Forest Land	9363	44.58
Brackish Marsh	3713	17.68
Deciduous Forest Land	2860	13.62
Urban or Built-up Land	2040	9.71
Forested Wetland	1039	4.95
Fresh Marsh	476	2.27
Pasture/Hay	462	2.20
Developed low density	343	1.63
Water	338	1.61
Transitional Areas	258	1.23
Wetland Nonforested	68	0.32
Gravel Pit, Strip Mine	17	0.08
Developed medium density	15	0.07
Clouds	12	0.06
Sugarcane	1	0.00

3.2 Water Quality Standards

The Water Quality criteria and designated uses for the Bayou Lacombe watershed are shown in Tables 16 and 17. As noted in the table, Bayou Lacombe Subsegment 040901 has a year round dissolved oxygen standard of 5.0 mg/L and Bayou Lacombe Subsegment 040902 has a year round dissolved oxygen standard of 4.0 mg/L.

Table 16. Water Quality Numerical Criteria and Designated Uses For Subsegment 040901

Parameter	Value
Designated Uses	A B C G
DO, mg/L	5.0
Cl, mg/L	30
SO_4, mg/L	30
pH	6.0 – 8.5
BAC	1* (Primary Contact Recreation)
Temperature, deg Celsius	30
TDS, mg/L	150

USES: A – primary contact recreation; B - secondary contact recreation; C – propagation of fish and wildlife; D – drinking water supply; E – oyster propagation; F – agriculture; G – outstanding natural resource water; L – limited aquatic life and wildlife use.

*Note 1 – No more than 25 percent of the total samples collected on a monthly or near-monthly basis shall exceed a fecal coliform density of 400/100 mL. This primary contact recreation criterion shall apply only during the defined recreational period of May 1 through October 31. During the nonrecreational period of November 1 through April 30, the criteria for secondary contact recreation shall apply.

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Table 17. Water Quality Numerical Criteria and Designated Uses For Subsegment 040902

Parameter	Value
Designated Uses	A B C G
DO, mg/L	4.0
Cl, mg/L	835
SO_4, mg/L	135
pH	6.0 – 8.5
BAC	1* (Primary Contact Recreation)
Temperature, deg Celsius	32
TDS, mg/L	1850

USES: A – primary contact recreation; B - secondary contact recreation; C – propagation of fish and wildlife; D – drinking water supply; E – oyster propagation; F – agriculture; G – outstanding natural resource water; L – limited aquatic life and wildlife use.

*Note 1 – No more than 25 percent of the total samples collected on a monthly or near-monthly basis shall exceed a fecal coliform density of 400/100 mL. This primary contact recreation criterion shall apply only during the defined recreational period of May 1 through October 31. During the nonrecreational period of November 1 through April 30, the criteria for secondary contact recreation shall apply.

3.3 Wastewater Discharges

According to LDEQ's TEMPO database, there were 70 permitted dischargers located within these subsegments at the time of development of this TMDL. This includes one MS4 permittee. There were too many facilities to sample during the survey. LDEQ recognizes that many of the dischargers may not individually impact the mainstem of Bayou Lacombe during periods of low stream flow. However, the cumulative loading from many small dischargers can reach Bayou Lacombe during storm events and have a residual impact throughout the year. Because of this and the large quantity of dischargers,

LDEQ has associated discharger allocations with nonpoint load reductions. In the absence of regional plants, LDEQ believes that loading should be reduced equitably for all facilities within the individual reaches or areas. Sixty-eight dischargers were included directly in the projection models (Tables 11 and 12). Current permit information was reviewed for these facilities. The same reductions apply to all facilities, modeled or not.

LDEQ is not able to quantify the number of individual home sewage systems in the watershed. LDEQ realizes that home sewage treatment systems may contribute to the loading. LDEQ recommends that these home systems should be linked to regional collection and treatment systems, or community sewer systems.

LDEQ is updating current information on permitted facilities and actively locating unpermitted facilities in the Pontchartrain Basin to get them permitted. Any newly permitted facilities will be subject to the permits limits outlined in the Phase I Permit Implementation Plan.

Phase I and II stormwater systems are additional possible point source contributors in the Pontchartrain Basin. Stormwater discharges are generated by runoff from urban land and impervious areas such as paved streets, parking lots, and rooftops during precipitation events. These discharges often contain high concentrations of pollutants that can eventually enter nearby waterbodies. Most stormwater discharges are considered point sources and require coverage by a National Pollutant Discharge Elimination System (NPDES) permit.

Under the NPDES stormwater program, operators of large, medium, and regulated small municipal separate storm sewer systems (MS4s) must obtain authorization to discharge pollutants. The Stormwater Phase I Rule (55 Federal Register 47990, November 16, 1990) requires all operators of medium and large MS4s to obtain an NPDES permit and develop a stormwater management program. Medium and large MS4s are defined by the size of the population within the MS4 area, not including the population served by combined sewer systems. A medium MS4 has a population between 100,000 and 249,999; a large MS4 has a population of 250,000 or more.

Phase II requires a select subset of small MS4s to obtain an NPDES stormwater permit. A small MS4 is any MS4 not already covered by the Phase I program as a medium or large MS4. The Phase II rule automatically covers all small MS4s in urbanized areas (UAs), as defined by the Bureau of the Census, and also includes small MS4s outside a UA that are so designated by NPDES permitting authorities, case by case (USEPA 2000).

In Louisiana, there are two ways that an MS4 can be identified as a regulated, small MS4. This category includes all cities within UAs and any small MS4 area outside UAs with a population of at least 10,000 and a population density of at least 1,000 people per square mile (LDEQ 2002). St. Tammany Parish, Permit # LAR041024, is the only MS4 permittee in the Bayou Lacombe watershed.

Allocations for the MS4 permit were provided by partitioning the nonpoint loading based on the percentage of the subsegment regulated by the MS4 permit. For subsegment 040901, the St. Tammany Parish MS4 permit regulates approximately 0.34% of the subsegment. For subsegment 040902, the St. Tammany Parish MS4 permit regulates approximately 16% of the subsegment.

EPA's stormwater permitting regulations require municipalities to obtain permit coverage for all stormwater discharges from MS4s. For each MS4 in the basin, a gross load was computed by dividing the acreage of the permitted area in the subsegment by the total area of the subsegment and multiplying the nonpoint source allocation by this percentage. Note that these values are estimates that can be refined in the future as more information about MS4s and land-use-specific loadings becomes available. Note that MS4s are permitted dischargers but function similarly to nonpoint sources (through storm-driven processes). EPA and LDEQ expect that the MS4 WLAs will be achieved through BMPs and adaptive management.

The National Pollutant Discharge Elimination System (NPDES) permitting program for stormwater discharges was established under the Clean Water Act as the result of a 1987 amendment. The Act specifies the level of control to be incorporated into the NPDES stormwater permitting program depending on the source (industrial versus municipal stormwater). These programs contain specific requirements for the regulated communities/facilities to establish a comprehensive stormwater management program (SWMP) or storm water pollution prevention plan (SWPPP) to implement any requirements of the total maximum daily load (TMDL) allocation. [See 40 CFR §130.]

Stormwater discharges are highly variable both in terms of flow and pollutant concentration, and the relationships between discharges and water quality can be complex. For municipal stormwater discharges in particular, the current use of system-wide permits and a variety of jurisdiction-wide BMPs, including educational and programmatic BMPs, does not easily lend itself to the existing methodologies for deriving numeric water quality-based effluent limitations. These methodologies were designed primarily for process wastewater discharges which occur at predictable rates with predictable pollutant loadings under low flow conditions in receiving waters. EPA recognized these problems and developed permitting guidance for stormwater permits. [See "Interim Permitting Approach for Water Quality-Based Effluent Limitations in Stormwater Permits" (EPA-833-D-96-00, Date published: 09/01/1996)]

Due to the nature of stormwater discharges, and the typical lack of information on which to base numeric water quality-based effluent limitations (expressed as concentration and mass), LDEQ considers an interim permitting approach for NPDES storm water permits which is based on BMPs. (The interim permitting approach uses best management practices (BMPs) in first-round stormwater permits, and expanded or better-tailored BMPs in subsequent permits, where necessary, to provide for the attainment of water quality standards.) These BMPs should include nutrient reduction plans, the location of all wastewater discharges, elimination of all illicit discharges, regionalization of sewage collection and treatment, and the rehabilitation of all problematic sewage collection lines within the MS4 regulated area.

A monitoring component is also included in the recommended BMP approach. "Each stormwater permit should include a coordinated and cost-effective monitoring program to gather necessary information to determine the extent to which the permit provides for attainment of applicable water quality standards and to determine the appropriate conditions or limitations for subsequent permits." The details of this approach can be found in a guidance memo issued in 2002. [See Memorandum from Robert Wayland, Director of OWOW and James Hanlon, Director of OWM to Regional Water Division Directors: "Establishing Total Maximum Daily Load (TMDL) Wasteload Allocations (WLAs) for Storm Water Sources and NPDES Permit requirements Based on Those WLAs " (Date published: 11/22/2002)] "The policy outlined in this memorandum affirms the appropriateness of an iterative, adaptive management BMP approach, whereby permits include effluent limits (e.g., a combination of structural and nonstructural BMPs) that address storm water discharges, implement mechanisms to evaluate the performance of such controls, and make adjustments (i.e., more stringent controls or specific BMPs) as necessary to protect water quality. …… If it is determined that a BMP approach (including an iterative BMP approach) is appropriate to meet the storm water component of the TMDL, LDEQ makes sure the TMDL reflect this." This BMP-based approach to stormwater sources in TMDLs is also recognized and described in the most recent EPA guidance. [See "TMDLs To Stormwater Permits Handbook" (DRAFT), EPA, November 2008]

This TMDL relies on appropriate BMPs for implementation. Recent EPA memos regarding stormwater guidance indicate where numeric effluent limitations should be applied to MS4 permits. However, as a result of this TMDL, no numeric effluent limitations are required for municipal stormwater discharge permits as a result of this TMDL.

3.4 Water Quality Conditions/Assessment

Bayou Lacombe, subsegments 040901 and 040902 of the Lake Pontchartrain Basin, is listed on the 2008 Integrated Report and EPA's Consent Decree (E. D. La. 2002). Subsegment 040901 was found to be "not supporting" its designated uses of Fish and Wildlife Propagation and Outstanding Natural Resource. It was found to be supporting its designated uses of Primary and Secondary Contact Recreation on the 2008 303(d) list. For more information see Tables 1 – 3.

Subsegment 040902 was found to be "not supporting" its designated use of Fish and Wildlife Propagation. It was found to be supporting its designated uses of Primary and Secondary Contact Recreation and Outstanding Natural Resource on the 2008 303(d) list. Both subsegments were subsequently scheduled for Total Maximum Daily Load (TMDL) development with other listed waters in the Lake Pontchartrain Basin.

The Bayou Lacombe survey data was plotted against ambient network data from WQN sites 0300 and 1047. Survey site BL06 (0300) was compared to WQN site 0300. Survey site BL08 (3697) was compared to WQN site 1047. All survey data values fell within the same range as the ambient data from sites 0300 and 1047 except chloride conductivity, and salinity. These three parameters were much higher than the ambient data. Also, ammonia-nitrogen at survey site BL08 was much less than at ambient site 1047. The plots are presented in Appendices G4 and G5.

A comparison of chloride, conductivity, and salinity in Bayou Lacombe during the survey was made to Bayou Bonfouca/Liberty, Bayou Cane, and Tchefuncte River. These three waterbodies are nearby and also flow into Lake Pontchartrain. For each waterbody, the most downstream survey site near Lake Pontchartrain was chosen to compare the values. The salinity for the three waterbodies ranged from 1.5-4.0 ppt while Bayou Lacombe's salinity was 7.1 ppt. The chloride for the three waterbodies ranged from 1,000-2,390 mg/L while Bayou Lacombe's chloride was 4,093 mg/L. The conductivity for the three waterbodies ranged from 2,768-7,190 umhos/cm while Bayou Lacombe's conductivity was 12,287 umhos/cm. The chloride, conductivity, and salinity of the three waterbodies were also compared to the ambient data at WQN site 1047 on Bayou Lacombe. All three parameters were within the range of the ambient data for Bayou Lacombe.

The Bayou Lacombe survey was conducted October 6-10, 2008. There were two hurricanes in September 2008 in the Gulf of Mexico. Hurricane Gustav made its final landfall near Cocodrie, Louisiana on September 1, 2008. Hurricane Ike made landfall on Galveston Island, Texas on September 13, 2008. These hurricanes most likely had an effect on the conditions in Bayou Lacombe; LDEQ attributes the abnormally high conservatives to the hurricanes.

3.5 Prior Studies

This is the first TMDL study conducted on Bayou Lacombe. Prior studies include the following:

1) Hurricane Katrina Impact Study, 2005
2) Hurricane Gustav Ambient Sampling, 2008
3) Ecoregions Sampling Project, 1991
4) Mercury Contaminant Levels in Louisiana Biota, 1994

For Bayou Lacombe subsegment 040901, LDEQ has one monthly water quality sampling station, WQN 0300. LDEQ Water Quality Site 0300, Bayou Lacombe below Hwy. 190 west of Slidell, LA, has a period of record of 1991-1998, 2001, 2007, and 2010-2011.

For Bayou Lacombe subsegment 040902, LDEQ has one monthly water quality sampling station, WQN 1047. LDEQ Water Quality Site 1047, Bayou Lacombe at Hwy. 434 bridge, has a period of record of 2001, 2007, and 2010.

Data collected during the Eularian TMDL survey conducted in October 2008 for Bayou Lacombe included discharge data, cross-section data, field in-situ data, continuous monitor data, and lab water quality data. This data was used to establish the input for the model calibration and is presented in Appendix F.

4. General TMDL Development Process

The development of a TMDL for dissolved oxygen generally occurs in 3 stages. Stage 1 encompasses the data collection activities. These activities may include gathering such information as stream cross-sections, stream flow, stream water chemistry, stream temperature and dissolved oxygen at various locations on the stream, location of the stream centerline and the boundaries of the watershed which drains into the stream, and other physical and chemical factors which are associated with the stream.

Additional data gathering activities include gathering all available information on each facility which discharges pollutants in to the stream, gathering all available stream water quality chemistry and flow data from other agencies and groups, gathering population statistics for the watershed to assist in developing projections of future loadings to the water body, land use and crop rotation data where available, and any other information which may have some bearing on the quality of the waters within the watershed. During Stage 1, any data available from reference or least impacted streams which can be used to gauge the relative health of the watershed is also collected.

Stage 2 involves organizing all of this data into one or more useable forms from which the input data required by the model can be obtained or derived. Water quality samples, field measurements, and historical data must be analyzed and statistically evaluated in order to determine a set of conditions which have actually been measured in the watershed. The findings are then input to the model. Best professional judgment is used to determine initial estimates for parameters which were not or could not be measured in the field. These estimated variables are adjusted in sequential runs of the model until the model reproduces the field conditions which were measured. In other words, the model produces a value of dissolved oxygen, temperature, or other parameter which matches the measured value within an acceptable margin of error at the locations along the stream where the measurements were actually made. When this happens, the model is said to be calibrated to the actual stream conditions. At this point, the model should confirm that there is an impairment and give some indications of the causes of the impairment. If a second set of measurements is available for slightly different conditions, the calibrated model is run with these conditions to see if the calibration holds for both sets of data. When this happens, the model is said to be verified.

Stage 3 covers the projection modeling which results in the TMDL. The critical conditions of flow and temperature are determined for the waterbody and the maximum pollutant discharge conditions from the point sources are determined. These conditions are then substituted into the model along with any related condition changes which are required to perform worst case scenario predictions. At this point, the loadings from the point and nonpoint sources (increased by an acceptable margin of safety) are run at various levels and distributions until the model output shows that dissolved oxygen criteria are achieved. It is critical that a balanced distribution of the point and nonpoint source loads be made in order to predict any success in future achievement of water quality standards. At the end of Stage 3, a TMDL is produced which shows the point source permit limits and the amount of reduction in man-made nonpoint source pollution which must be achieved to attain water quality standards. The man-made portion of the NPS pollution is estimated from the difference between the calibration loads and the loads observed on reference or least impacted streams.

5. Calibration Model Documentation

5.1 Program Description

The model used for this TMDL was LA-QUAL, a steady-state one-dimensional water quality model. LA-QUAL has the mechanisms for incorporating tidal fluctuations, dispersion, and algal impacts in the analysis and was particularly suitable for use in modeling Bayou Lacombe. For a history of LA-QUAL, refer to the LA-QUAL for Windows User's Manual (LDEQ, 2007).

5.2 Input Data Documentation

Data collected during the intensive survey conducted from October 6 - 10, 2008 for Bayou Lacombe was used to establish the input for the model calibration. The data is presented in Appendix F. The headwater flows and flows in each reach were based on the measured survey discharges. The headwater flows in the ditches were set at a minimal flow representative of summer critical conditions.

Field and laboratory water quality data were entered in a spreadsheet for ease of analysis. The survey data was the primary source of the model input data for initial conditions, decay rates, mainstem water temperature, dissolved oxygen loading, headwater temperature, and DO data.

The survey data was compared to the LDEQ reference stream data. Generally, the chloride values for the lower reaches of Bayou Lacombe, Big Branch Bayou, and Cypress Bayou were higher than the values for the upstream reaches, indicating the tidal influences from Lake Pontchartrain. Although point source discharges may contribute a portion of the chloride loading, it appears to be insignificant. BOD values in upper Bayou Lacombe were generally lower than the reference stream values while the BOD values in lower Bayou Lacombe were generally greater than the reference stream values. BOD values in Big Branch Bayou were within the range of reference stream values. BOD values in Cypress Bayou were generally higher than the reference stream values. Bayou Lacombe values for ammonia-nitrogen were generally similar to the reference streams but two were higher. Nitrate+nitrite nitrogen and total phosphorus in Bayou Lacombe were within the range of reference stream values. Values of ammonia-nitrogen in Big Branch Bayou were the same as the reference streams except for one value which was higher. Values of nitrate+nitrite nitrogen in Big Branch Bayou were generally the same and below reference stream values. Values of total phosphorus in Big Branch Bayou were within the range of values for the reference streams. Values of ammonia-nitrogen in Cypress Bayou were the same as most of the reference stream values. Values of nitrate+nitrite nitrogen in Cypress Bayou were within the range of the reference stream values. Values of total phosphorus in Cypress Bayou were within the range of reference stream values except one which was higher. The reference stream data is provided in Appendix E4.

It was observed that the upper reaches of Bayou Lacombe have significant flow and the lower tidal reaches of Bayou Lacombe get good tidal flushing and therefore do not have the same water quality problems of the middle reaches of Bayou Lacombe. The drop in dissolved oxygen appears to represent upland loading, including loading from facility discharges, being transported to the middle reaches of Bayou Lacombe more quickly. The loading tends to travel more quickly through the upland reaches, with less time for decay and settling. Near the upstream boundaries of the tidal reaches, the stream velocity and reaeration tend to decrease. At this point, the loading has its greatest impact and Bayou Lacombe may become somewhat stagnant. Most of the urban development and dischargers are located along major highways, such as Hwy. 190, that drain into Bayou Lacombe and its tributaries. The combination of urban development and stagnant flow may be causing a significant reduction in water quality on the tributaries and upper tidal reaches of Bayou Lacombe. For Bayou Lacombe, Big Branch Bayou seems to be the point below which DO is projected to be improved by increased tidal flushing.

Ratios of TOC to UCBOD survey values for Bayou Lacombe ranged from 1.5 to 3.3. The ratio at the two uppermost survey sites was 3.3 which appears to coincide with less development in the area. The remainder of Bayou Lacombe had consistent ratios of TOC/UCBOD that ranged from 1.5-1.9. The TOC/UCBOD ratio for Big Branch Bayou ranged from 1.3-2.0. The TOC/UCBOD ratio for Cypress

Bayou ranged from 1.1-1.7. The ratios in Big Branch Bayou, Cypress Bayou, and the remainder of Bayou Lacombe appear to coincide with more development in the area and wetland influences. The ratios are shown in Appendix F1 along with other water quality data.

5.2.1 Model Schematics and Maps

A vector diagram of the modeled area is presented in Figure 1 and Appendix C1. The vector diagram shows the locations of survey stations, the reach design, and the locations of the tributaries. An ARCVIEW map of the stream and subsegments showing survey stations, subsegment boundary and other points of interest is included in Figure 2 and Appendix H1.

5.2.2 Model Options, Data Type 2

Six constituents were modeled during the calibration process. These were dissolved oxygen, carbonaceous biochemical oxygen demand, nitrogenous biochemical oxygen demand, chloride, conductivity, and salinity. The algae cycle was not modeled; however, the measured chlorophyll A values were included in the initial conditions. This allowed the model to simulate the oxygen production associated with algae without modeling the entire algal cycle.

5.2.3 Program Constants, Data Type 3

A minimum K_L value of 0.7 m/day was used. This value is a conversion from 2.3 ft/day which is a Louisiana standard minimum. The K_2 maximum was set to 25 1/day at 20° C, which is the EPA Policy in the absence of a measured value.

The inhibition control value was set to option 3 which is all rates but sediment oxygen demand. The water column dissolved oxygen demand is assumed to come primarily from facultative bacteria under anoxic conditions and SOD is not influenced by modeled dissolved oxygen levels in the upper water column.

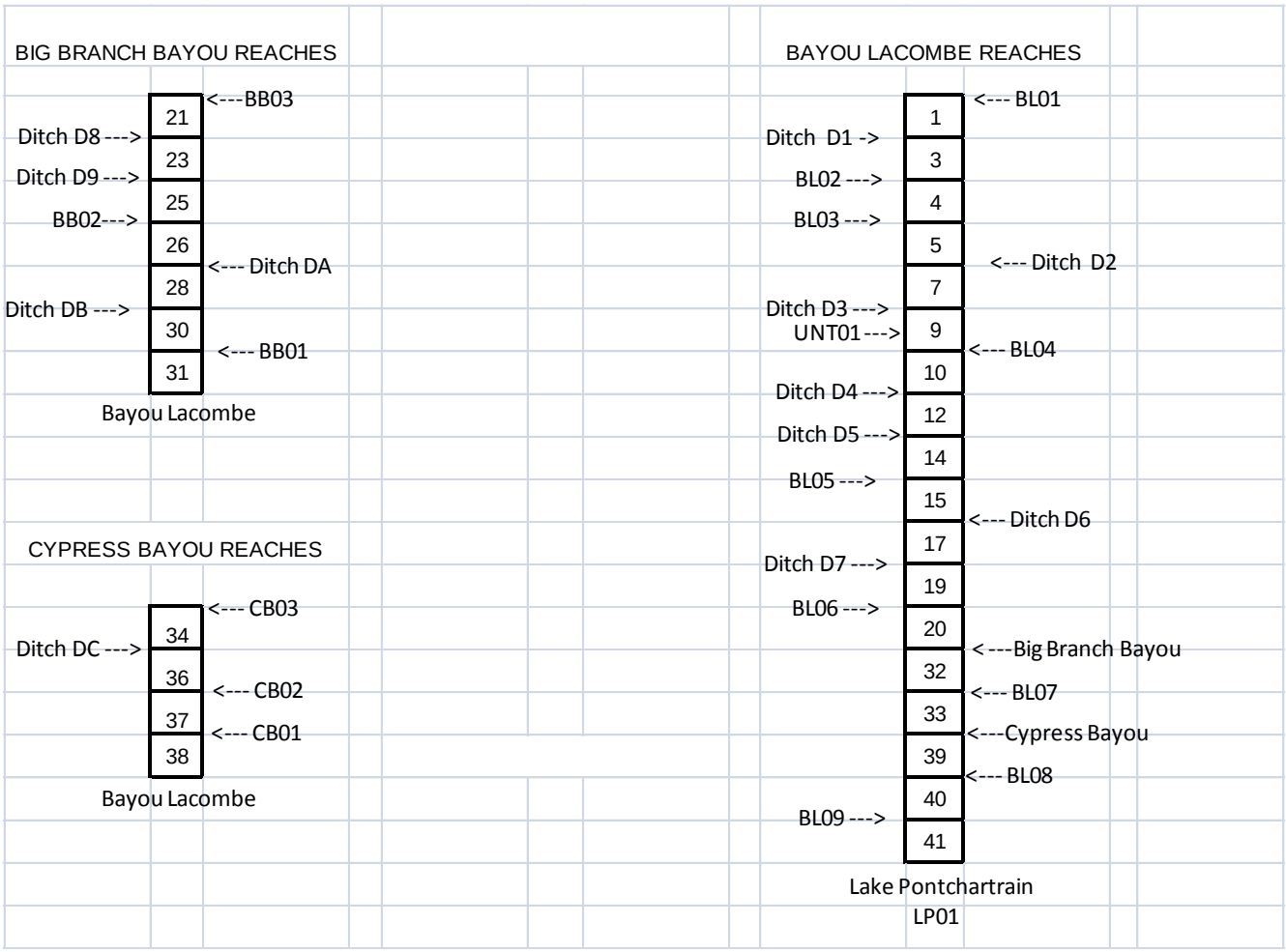
The hydraulic calculation method was set to option 2 or “widths and depths.” This was done because the low slopes in these waterbodies cause a substantial amount of water to be present in some reaches during critical flow. Using a modified Leopold relationship allows the model to predict a more accurate depth and width during low flow.

Two options are available for the settling rate units. Option 1 is to be used when the model utilizes a settling velocity. This option essentially ties the settling rate to the stream depth. Option 2 is to be used when the model utilizes a settling rate. Option 2 states that a defined percentage of the constituent will settle out of the water column in one day. Option 2 was used for Bayou Lacombe.

Dispersion equation 1 was used to allow manual input of dispersion.

Model defaults were used for the Tidal Period and Period of Tidal Rise. Tide Height was set at 0.5 ft which was verified from NOAA at the New Canal station. Appendix G3 contains the plot of water level during the survey period.

Figure 1. Model Layout



5.2.4 Temperature Correction of Kinetics, Data Type 4

The temperature values computed are used to correct the rate coefficients in the source/sink terms for the other water quality variables. These coefficients are input at 20 °C and are then corrected to temperature using the following equation:

$$X_T = X_{20} * \text{Theta}^{(T-20)}$$

Where:

X_T = the value of the coefficient at the local temperature T in degrees Celsius
X_{20} = the value of the coefficient at the standard temperature at 20 degrees Celsius
Theta = an empirical constant for each reaction coefficient

In the absence of specified values for data type 4, the model uses default values. A complete listing of these values can be found in the LA-QUAL for Windows User's Manual (LDEQ, 2004). For this model all values used were LA-QUAL default values.

Figure 2. Map of Study Area Bayou Lacombe 040901 and 040902

5.2.5 Reach Identification Data, Data Type 8

A diagram of the modeled area is presented in Appendix C1 and Figure 1. The vector diagram shows the reach design and the location of all modeled tributaries and mainstem. The Bayou Lacombe modeled area is characterized by modeling from BL01 to its confluence with Lake Pontchartrain. Big Branch Bayou, a tributary to Bayou Lacombe, was modeled from BB03 to its confluence with Bayou Lacombe. Cypress Bayou, a tributary to Bayou Lacombe, was modeled from CB03 to its confluence with Bayou Lacombe. Numerous ditches were also modeled. This calibrated model includes 41 reaches, 777 elements, and 15 headwaters. A digitized map of the streams showing the survey sites and other information is included in Figure 2 and Appendix H1.

5.2.6 Advective Hydraulic Coefficients, Data Type 9

The Leopold equations are used to scale the velocity (U), width (W), and depth (H) of a free flowing stream from a lower value of flow to a higher value or from a higher value of flow to a lower value. Note that the exponents add to one and the coefficients multiply to 1. This is known as the rule of ones. This method is not appropriate for streams which are not dependent entirely on flow such as waterbodies where flow approaches zero, but contain some depth.

$$U = aQ^b \qquad H = cQ^d \qquad W = eQ^f$$

$$b + d + f = 1 \qquad (a)(c)(e) = 1$$

The Leopold equations presume that the water surface width and average depth of a stream are zero at zero flow. Most Louisiana streams, such as Bayou Lacombe, retain a significant width and depth at zero flow. The equations have therefore been modified to allow for a zero flow width and depth. The rule of ones does not apply to the modified equations. The modified Leopold equations are:

$$W = aQ^b + c \qquad H = dQ^e + f \qquad U = gQ^h$$

For all reaches, the widths and depths were assumed to be independent of flow and relatively constant. Consequently, the modified Leopold coefficients and exponents were not calculated.

5.2.7 Dispersive Hydraulic Coefficients, Data Type 10

Dispersion calculated from the dye studies was not used in the model. The calculated values in the upper portion of Bayou Lacombe were 226 ft^2/s at site BL02 (RKM 25.2) and 66 ft^2/s at site BL03 (RKM 20.3). The calculated value in the lower portion of Bayou Lacombe was 12 ft^2/s which represents the stream from approximately RKM 6.1 (site BL08) to RKM 0.0 (confluence with Lake Pontchartrain). Based on other surveyed and modeled streams in the area, these values may not accurately represent the dispersion in Bayou Lacombe.

An attempt was made to obtain dispersion by calibrating to the conservative parameters of salinity, chloride, and conductivity. However, the dispersion values obtained by this method ranged from 24 ft^2/s to 1,112 ft^2/s Based on other surveyed and modeled streams in the area, these values may not accurately represent the dispersion in Bayou Lacombe. The conservatives measured during the survey were much higher than normal as discussed in Section 3.4. Ultimately, the dispersion rates were entered manually and ranged from 5 ft^2/s to 81 ft^2/s. These values are similar to the values in previous

models for Lower Tchefuncte River and Bayous Bonfouca/Liberty. Lower Tchefuncte River ranged from 0 ft^2/s to 80 ft^2/s. Bayous Bonfouca/Liberty ranged from 0 ft^2/s to 100 ft^2/s.

5.2.8 Initial Conditions, Data Type 11

The initial conditions are used to reduce the number of iterations required by the model. The values required for this model were temperature and DO by reach. The input values came from the survey station(s) located closest to the reach.

When the continuous monitoring dissolved oxygen (DO) data for at least one diurnal cycle is available and the diurnal variation is less than 2 mg/L, it is standard practice for LDEQ to calibrate to the mean DO. The Bayou Lacombe data sets collected at most stations had a diurnal variation ranging from 0 mg/L to 2 mg/L. The standard LDEQ practice at some sites for this is as follows:

1. Calibrate without simulating algal production as follows:

Range of DO cycle	Calibrate
0 – 2 mg/l	Mean DO for one or more full cycles
2 – 9 mg/l	One mg/l over minimum DO
>9 mg/l	0.11*DO cycle over minimum DO

These practices were followed for this model. The input data and sources are shown in Appendix B2.

Chlorophyll a values were also used since the mild effects of algae on the dissolved oxygen concentrations were also simulated with this model. All values were set to the measured values. The input data and sources are shown in Appendix B2.

5.2.9 Reaeration Rates, Data Type 12

The applicability of the various reaeration equations was examined and utilized based upon appropriate hydrology of the reach. The O'Connor-Dobbins, Louisiana, and Texas equations were used in this model. The Texas equation was used for reaches that would not calibrate when using the Louisiana equation. The Texas equation is stated below.

$$K_2 = \frac{1.923\ V^{0.273}}{D^{0.894}}$$

where: V = stream velocity
D = stream depth

The Louisiana equation is stated below.

$$K2 = \frac{0.664\ (1 + 21.52\ V)}{D}$$

where: V = stream velocity
D = stream depth

5.2.10 Sediment Oxygen Demand, Data Type 12

The SOD values for Bayou Lacombe, Big Branch Bayou, and Cypress Bayou were achieved through calibration. For the generic ditches, SOD was set at 0.5 $g/m^2/d$. This value was used in a TMDL for Bayou Bonfouca/Liberty which is close to Bayou Lacombe and also flows into Lake Pontchartrain. The SOD value for each reach is shown in Appendix B2.

5.2.11 Carbonaceous BOD Decay and Settling Rates, Data Type 12

The in-stream carbonaceous BOD decay rates (bottle rates) ranged from 0.03/day to 0.07/day. There was not much variation in the rates. The values were comparable to instream values observed in other Lake Pontchartrain Basin waterbodies of comparable hydrology. The CBOD curves presented in Appendix F5 are derived using the Microsoft Excel Solver and were based on the measured daily CBOD values. The decay rates used for each reach are also shown in Appendix F5.

5.2.12 Nitrogenous BOD Decay and Settling Rates, Data Type 15

The in-stream nitrogenous BOD decay rates (bottle rates) were extremely variable. The decay rates ranged from 0.005/day to 0.595/day. The decay rates used for each reach are shown in Appendix F5.

5.2.13 Incremental Conditions, Data Types 16, 17, and 18

Incremental flow was used in Bayou Lacombe, Big Branch Bayou, and Cypress Bayou for calibration of advective flow. It was not used in the tidal areas of the waterbodies.

5.2.14 Nonpoint Sources, Data Type 19

Nonpoint source loads which are not associated with a flow are input into this part of the model. These can be most easily understood as resuspended load from the bottom sediments and are modeled as SOD, CBOD, and NBOD. For Bayou Lacombe, Big Branch Bayou, and Cypress Bayou, these values were achieved through calibration.

For the generic ditches, nonpoint loading was set to maintain levels of UCBOD=2.2 mg/L and UNBOD=1.0 mg/L in the water column without facility discharges. This method was used in a previous TMDL for Bayou Bonfouca/Liberty. These two values of UCBOD and UNBOD were measured during a previous survey on Bayou Vincent just downstream of groundwater inflow. Bayou Vincent is part of the Bayou Bonfouca/Liberty watershed which is close to Bayou Lacombe and also flows into Lake Pontchartrain.

5.2.15 Headwaters, Data Types 20, 21, and 22

The headwater flows were set to the measured values during the survey. The UCBOD and UNBOD loading from measured sites was used as loading for the headwaters. The data and sources are presented in Appendix B2.

5.2.16 Wasteloads, Data Types 23, 24, and 25

According to LDEQ's TEMPO database, there were 70 permitted dischargers located within these two subsegments at the time of development of this TMDL. This includes one MS4 permittee. There were too many facilities to sample. One facility was sampled during the survey. Current permit information was reviewed for all of the facilities. All facilities were included in the model. Unpermitted and/or unmodeled dischargers are accounted for as nonpoint loading through the process of calibration. Loading for facilities was set at the permit limits. UCBOD was calculated as BOD_5*2.3 and UNBOD was calculated as 4.3*NH_3-N. For facilities without a current DO limit, the default effluent DO was 2 mg/L.

5.2.17 Boundary Conditions, Data Type 27

Data from survey site LP01 (3699) was used for the lower boundary conditions.

5.3 Model Discussion and Results

The Bayou Lacombe watershed was simulated with a branched model. The model begins at BL01 and ends at the confluence with Lake Pontchartrain. Big Branch Bayou and Cypress Bayou are major tributaries that were modeled. The watershed contains many dischargers that are not discharging directly into these tributaries. In order to better represent these facilities and provide more accurate wasteload allocations, these facilities were brought into the model in clusters where the highway ditches meet the tributary or mainstem.

The calibration model input and output is presented in Appendix B. The overlay plotting option was used to determine if calibration had been achieved. A plot of the dissolved oxygen concentration versus river kilometer is presented in Figures 3 - 5. The calibration points for temperature were calculated based on the continuous monitor readings. The dissolved oxygen readings at most sites had a diurnal swing of less than 2. Therefore, the calibration points for dissolved oxygen were based on the mean DO. The calibration points for CBOD and NBOD were the measured values obtained from the water quality samples. The calibration points for conductivity were based on average continuous monitor readings. The calibration points for the chlorides and chlorophyll A were the measured values obtained from the water quality samples.

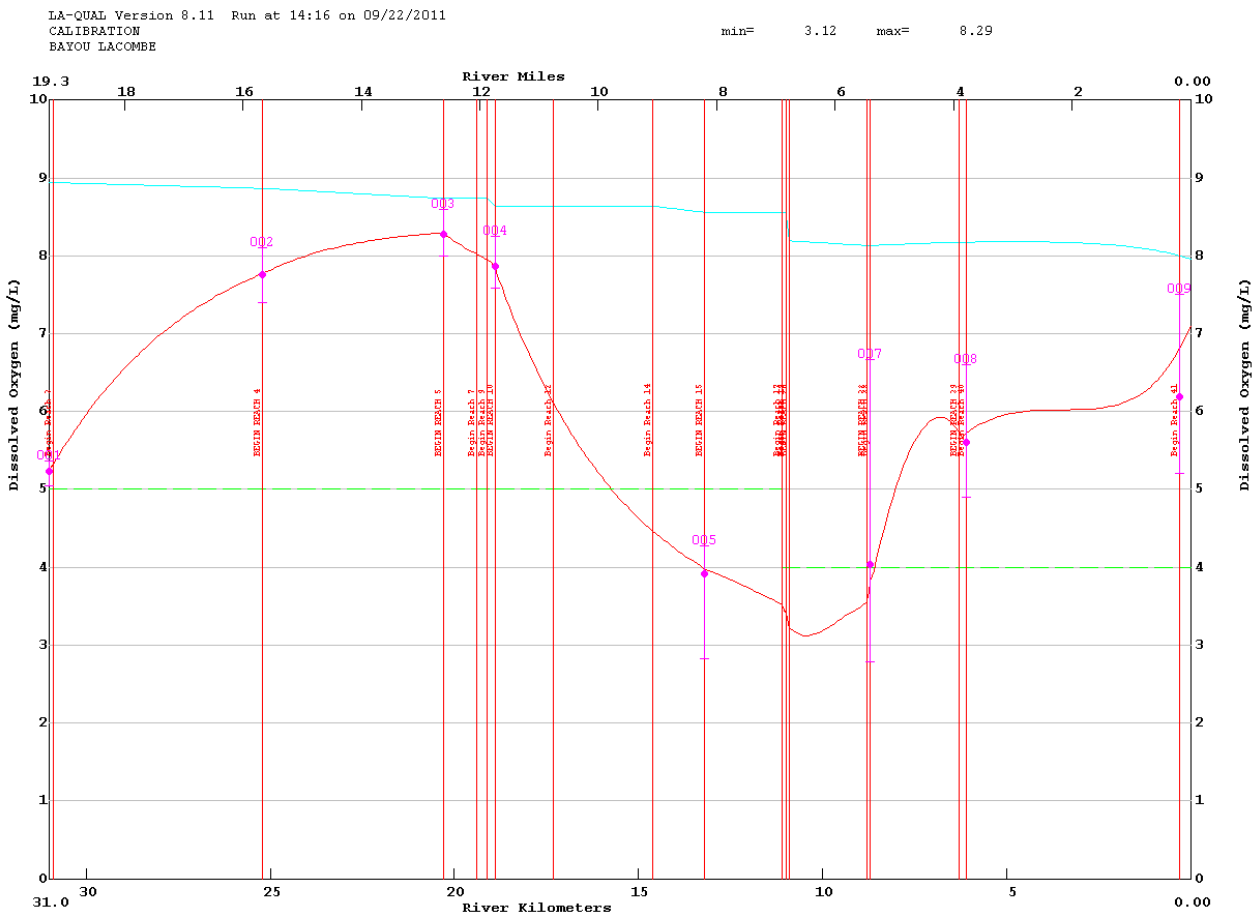
The model was adequately calibrated for DO, UCBOD, and UNBOD on the main stem and major tributaries. The calibration model shows that during the October 2008 survey period, the DO criteria of 5 mg/L in subsegment 040901 and 4 mg/L in subsegment 040902 were being met in most of the modeled reaches of Bayou Lacombe. The calibration model minimum DO on the main stem was 3.12 mg/L. The DO criterion of 4 mg/L for the modeled reaches of Big Branch Bayou was not met during the survey. The DO criterion of 4 mg/L for the majority of the modeled reaches of Cypress Bayou was not met during the survey.

The O'Connor-Dobbins, Louisiana, and Texas reaeration equations were used in the model. The equations were chosen based on the hydrology of the waterbody. The use of these equations produced a calibration model with reasonable values for both sediment oxygen demand (SOD) and nonpoint loading.

It is the determination of LDEQ that a significant portion of the loading comes from man-made sources, including many permitted and unpermitted dischargers located within the watershed.

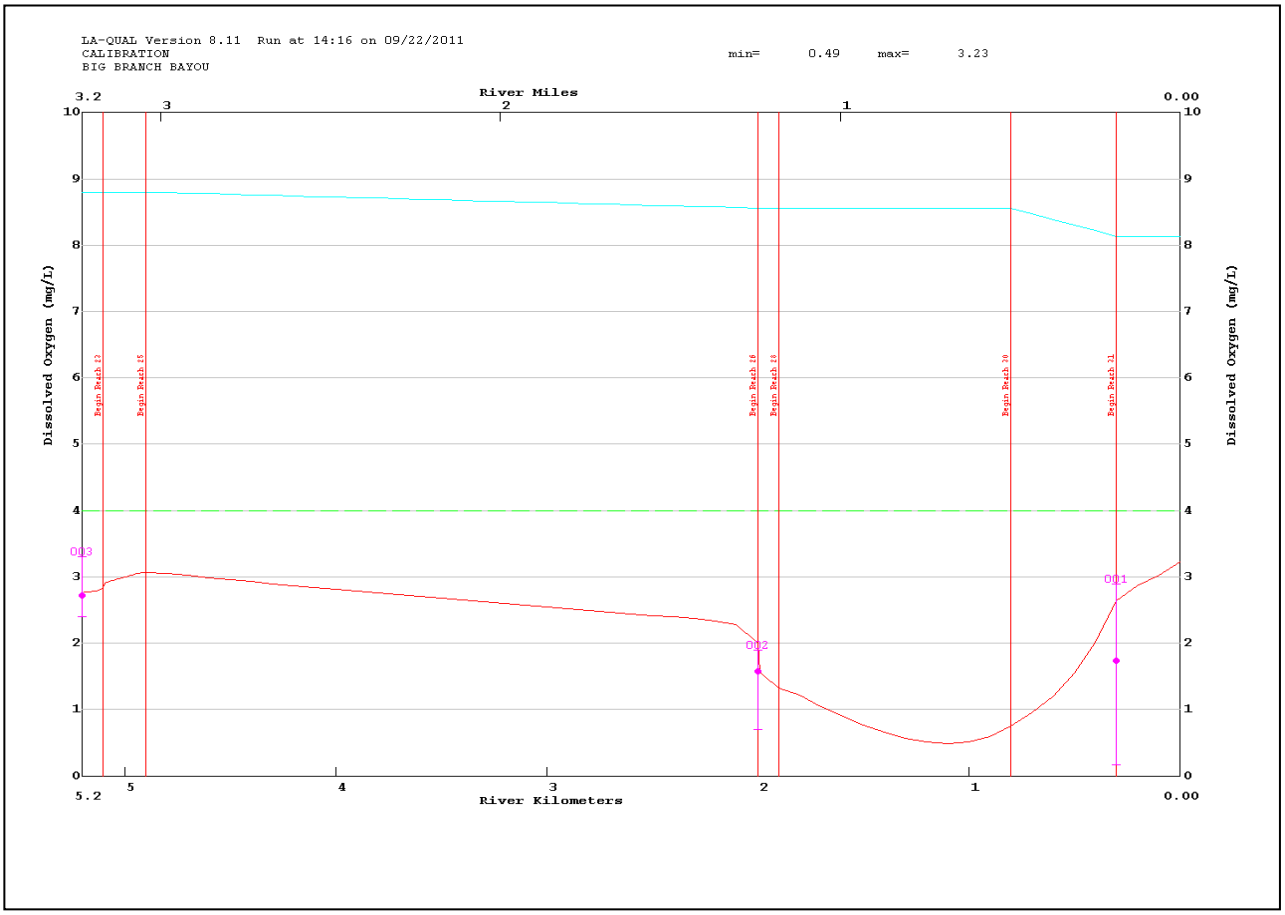
The CBOD and NBOD decay rates are discussed in Sections 5.2.11 and 5.2.12. The settling rates and SOD were achieved through calibration. The resulting values were reasonable for waterbodies with low slope, low stream velocity, and bed sediment composition consisting of sand, silt and clay.

Figure 3. Bayou Lacombe Calibration Model Dissolved Oxygen versus River Kilometer



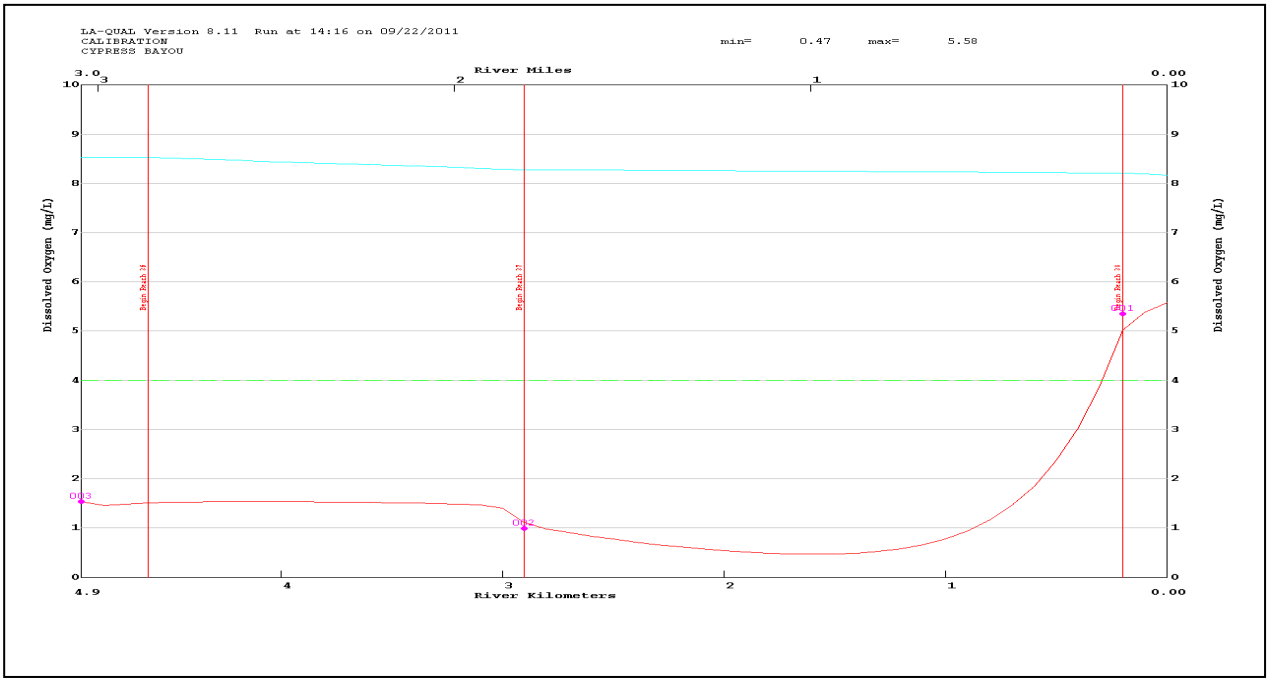
- numbered points indicate survey stations
- vertical lines indicate beginning of reach
- the horizontal line indicates the DO Criterion
- upper plotted line indicates DO saturation
- lower plotted line indicates calibration model output

Figure 4. Big Branch Calibration Model Dissolved Oxygen versus River Kilometer



- numbered points indicate survey stations
- vertical lines indicate beginning of reach
- the horizontal line indicates the DO Criterion
- upper plotted line indicates DO saturation
- lower plotted line indicates calibration model output

Figure 5. Cypress Bayou Calibration Model Dissolved Oxygen versus River Kilometer



- numbered points indicate survey stations
- vertical lines indicate beginning of reach
- the horizontal line indicates the DO Criterion
- upper plotted line indicates DO saturation
- lower plotted line indicates calibration model output

6. Water Quality Projections

The traditional summer critical projection loading scenario was performed at the current annual DO criteria. This scenario was based on reduced total nonpoint loads at summer season critical conditions (i.e. 90th percentile seasonal temperatures and summer default/low flows) in accordance with the Louisiana Technical Procedures (LTP). A winter projection was run based on the percent reduction of total nonpoint loads required for the summer critical projections.

6.1 Critical Conditions, Seasonality and Margin of Safety

The Clean Water Act requires the consideration of seasonal variation of conditions affecting the constituent of concern, and the inclusion of a margin of safety (MOS) in the development of a TMDL. For the Bayou Lacombe TMDL, subsegments 040901 and 040902, an analysis of LDEQ ambient data has been employed to determine critical seasonal conditions and an appropriate margin of safety.

Critical conditions for temperature were determined for Bayou Lacombe by using water quality data from LDEQ Ambient Water Quality Network Site Nos. 0300 and 1047. The 90th percentile temperature for each season was determined. Ambient temperature data and critical temperature are shown in Appendix G1.

Graphical and regression analysis techniques have been used by LDEQ historically to evaluate the temperature and dissolved oxygen data from the Ambient Monitoring Network and run-off determinations from the Louisiana Office of State Climatology water budget. Since nonpoint loading is conveyed by run-off, this was a reasonable correlation to use. Temperature is strongly inversely proportional to dissolved oxygen and moderately inversely proportional to run-off. Dissolved oxygen and run-off are also moderately directly proportional. The analysis concluded that the critical conditions for stream dissolved oxygen concentrations were those of negligible nonpoint run-off and low stream flow combined with high stream temperature.

When the rainfall run-off (and non-point loading) and stream flow are high, turbulence is higher due to the higher flow and the temperature is lowered by the run-off. In addition, run-off coefficients are higher in cooler weather due to reduced evaporation and evapotranspiration, so that the high flow periods of the year tend to be the cooler periods. Reaeration rates and DO saturation are, of course, much higher when water temperatures are cooler, but BOD decay rates are much lower. For these reasons, periods of high loading are periods of higher reaeration and dissolved oxygen but not necessarily periods of high BOD decay.

This phenomenon is interpreted in TMDL modeling by assuming that nonpoint loading associated with flows into the stream are responsible for a significant portion of the benthic blanket which accumulates on the stream bottom and that the accumulated benthic blanket of the stream, expressed as SOD and/or resuspended BOD in the calibration model, has reached steady state or normal conditions over the long term and that short term additions to the blanket are off set by short term losses. In waterbodies dominated by loading from point source discharges, these point sources may also contribute to the benthic blanket. This accumulated loading has its greatest impact on the stream during periods of higher temperature and lower flow. The manmade portion of the NPS loading is the difference between the calibration load and the reference stream load where the calibration load is higher. The only mechanisms for changing this normal benthic blanket condition is reduce the amount of loading

from both point and nonpoint source discharges. This may be done through the implementation of best management practices for nonpoint source loads and more stringent permit limits for point source loads.

In reality, the highest temperatures occur in July-August, the lowest stream flows occur in October-November, and the maximum point source discharge occurs following a significant rainfall, i.e., high-flow conditions. The summer projection model is established as if all these conditions happened at the same time. The winter projection model accounts for the seasonal differences in flows and BMP efficiencies. Other conservative assumptions regarding rates and loadings are also made during the modeling process. In addition to the conservative measures, an explicit MOS of 20% was used for all loads to account for future growth, safety, model uncertainty and data inadequacies.

6.2 Input Data Documentation

The headwaters of Bayou Lacombe, Big Branch Bayou, and Cypress Bayou were flowing at the time of the survey. Critical conditions include temperature and flow. The flows measured during the survey were used during projections since groundwater inflow is present in these streams and since October is a dry time of the year. The 90th percentile temperatures for the seasons were used in the projection models. For the headwater DO, the stream criteria were used. Pollutant loading is adjusted in the projection models to meet the dissolved oxygen criteria.

The calibration values were retained for the remaining parameters and used as input values in the summer and winter projections. The model adjusts the input values for SOD, CBODU decay, and NBODU decay based upon the input temperature. The width and depth values were retained from the calibration model.

6.2.1 Model Options, Data Type 2

Three constituents were modeled during the projection process. These were dissolved oxygen, carbonaceous biochemical oxygen demand, and nitrogenous biochemical oxygen demand.

6.2.2 Temperature Correction of Kinetics, Data Type 4

The temperature correction factors specified in the LTP are entered in the model.

6.2.3 Reach Identification Data, Data Type 8

The reach-element design from the calibration was used in the projection modeling.

6.2.4 Advective Hydraulic Coefficients, Data Type 9

The hydraulic coefficients, exponents, and constants determined for the calibration were used in the projection model.

6.2.5 Initial Conditions, Data Type 11

The initial conditions were set to the 90th percentile critical season temperature in accordance with the LTP. For summer, the temperature was set to 28.4^{o}C or 30.8 ^{o}C depending on the location of the reach. The dissolved oxygen values for the initial conditions and headwater were set at the stream criteria (5 mg/L for subsegment 040901 and 4 mg/L for subsegment 040902).

For winter, the temperature was set to 19.6^{o}C or 23.3 ^{o}C depending on the location of the reach. The dissolved oxygen values for the initial conditions and headwater were set at the stream criteria (5 mg/L for subsegment 040901 and 4 mg/L for subsegment 040902).

6.2.6 Reaeration Rates, Carbonaceous BOD Decay and Settling Rates, Nitrogenous BOD Decay and Settling Rates, Data Type 12 and 15

The reaeration rate equations, CBOD decay and settling rates, NBOD decay and settling rates, and the fractions converting settled CBOD and settled NBOD to SOD were not changed from the calibration.

6.2.7 Sediment Oxygen Demand, Nonpoint Sources, Headwaters, Wasteloads, Data Type 12, 19, 20, 21, 22, 24, 25, and 26

The NPS values were calculated for each projection scenario using a load equivalent spreadsheet. An analysis was made of the calibration NPS and SOD loads in terms of loading in units of g-O_2/m^2/day. The same spreadsheet also calculated load reductions for the headwaters and wasteloads. The values and sources of the input data and the load analyses are presented in Appendix D for each of the projection runs.

LDEQ has collected and measured the CBOD and NBOD oxygen demand loading components for a number of years. These loads have been found in all streams including the non-impacted reference streams. Much of this loading is attributable to run-off loads which are flushed into the stream during run-off events, and subsequently settle to the bottom in slow moving streams. These benthic loads decay and breakdown during the year, becoming easily resuspended into the water column during the low flow/high temperature season. This season has historically been identified as the critical dissolved oxygen season.

LDEQ simulates part of the non-point source oxygen demand loading as resuspended benthic load and SOD. The calibrated non-point loads, UCBOD, UNBOD and SOD, are summed to produce the total calibrated benthic load. The total calibrated benthic load is then reduced by the total background benthic load (determined from LDEQ's reference stream research) to determine the total manmade benthic loading. The manmade portion is then reduced incrementally on a percentage basis to determine the necessary percentage reduction of manmade loading required to meet the water body's dissolved oxygen criteria. These reductions are applied uniformly to all reaches sharing similar hydrology and land uses.

Following the same protocol as the point source discharges, the total reduced manmade benthic load is adjusted for the margin of safety by dividing the value by one minus the margin of safety. This

adjusted load is added back to the total background benthic value to obtain the total projection model benthic load. This total projection benthic load is then broken out into its components of SOD, resuspended CBOD and resuspended NBOD by multiplying the total projection benthic load by the ratio of each calibrated component to the total calibrated benthic load.

LDEQ has found variations in the breakdown of the individual CBOD and NBOD components. While the total BOD is reliable, the carbonaceous and nitrogenous component allocation is subject to the type of test method. In the past, LDEQ used a method which suppressed the nitrogenous component to obtain the carbonaceous component value, which was then subtracted from the total measured BOD to determine the nitrogenous value. The suppressant in this method was only reliable for twenty days thus leading to the assumption that the majority of the carbonaceous loading was depleted within that period of time. The test results supported this assumption. A new method was found in Standard Methods for testing long term BODs and was implemented in 2000. This new method was necessary because the nitrogen suppressant started failing around day seven and the manufacturer of the suppressant will only guarantee its potency for a five-day period.

This current UBOD analysis method is a sixty-day test which measures the incremental total BOD of the sample while at the same time measuring the increase in nitrite/nitrate in the sample. This increase in nitrite/nitrate allows LDEQ to calculate the incremental nitrogenous portion by multiplying the increase by 4.57 to determine the NBOD daily readings. These NBOD daily readings are then subtracted from the daily reading for total BOD to determine the CBOD daily values. A curve fit algorithm is then applied to the daily component readings to obtain the estimated ultimate values of each component as well as the decay rate and lag times of the first order equations.

The results obtained using the new method showed that a portion of the CBOD first order equation does begin to level off prior to the twentieth day; however, a secondary CBOD component begins to use dissolved oxygen sometime between day ten and day twenty-five. This secondary CBOD component was not being assessed as CBOD using the previous method but was being included in the NBOD load. Thus the CBOD and NBOD component loading used in the reference stream studies is not consistent with the results using the new proposed 60-day method and the individual values should not be used to determine background values for samples processed using the new test methods. However, the sum of CBOD and NBOD should be about the same for both new and old test methods. For this reason LDEQ decided to use the average of reference stream benthic loads as background values.

The projections show that Bayou Lacombe, Big Branch Bayou, and Cypress Bayou cannot meet the current 5 mg/L and 4 mg/L criteria without significant load reductions in some of the reaches. Since LDEQ assumes these benthic loads are long-term loads brought to the stream by various sources throughout the year, the same percentage reductions were made in the winter projection model as were in the summer critical projection model. These reductions met the summer dissolved oxygen criteria and well-surpassed requirements in the winter projection.

The reductions were determined using the calibrated values for nonpoint CBOD and NBOD. These values were summed by reach, as justified above and adjusted for the margin of safety. Each reach's total benthic nonpoint load was then reduced to meet the dissolved oxygen criteria in each reach. Using the ratios determined in calibration, this reduced total nonpoint load was then broken into its components of CBOD, NBOD, and SOD. The percentage reduction within the mainstem was

calculated based on the comparison of the reduced total nonpoint benthic load to the calibration total nonpoint benthic load. These calculations are shown in Appendix E. The value and sources of CBOD and NBOD for each projection run are presented in Appendices D2 and D4.

6.2.8 Boundary Conditions, Data Type 27

The lower boundary condition for dissolved oxygen was unchanged from the calibration so that it would not act as a forcing function. The temperature was changed to the 90th percentile temperature for the season.

6.3 Model Discussion and Results

Load reductions varied from 0% to 80% as follows:

- Bayou Lacombe from Hwy. 36 to I-12 – 0%
- Bayou Lacombe from I-12 to Hwy. 190 – 70%
- Bayou Lacombe from Hwy. 190 to Big Branch Bayou – 40%
- Bayou Lacombe from Big Branch Bayou to Cypress Bayou – 0%
- Bayou Lacombe from Cypress Bayou to RKM 6.1 – 0%
- Bayou Lacombe from RKM 6.1to RKM 0.3 – 10%
- Bayou Lacombe RKM 0.3 to Lake Pontchartrain – 0%
- Big Branch Bayou all modeled reaches – 80%
- Cypress Bayou all modeled reaches – 80%

These are the summer season projected required reductions to meet a DO criterion of 5.0 mg/L for subsegment 040901 and 4.0 mg/L for subsegment 040902.

The proposed interim allocations for summer season projections are given in Tables 5 and 6. The proposed final allocations for summer season projections are given in Tables 11 and 12.

The projection model input and output data sets are presented in Appendix D. The reference stream data is located in Appendix E4.

6.3.1 Summer Projection

The large reductions presented above may indicate the DO criteria are inappropriate. LDEQ is investigating the need to reevaluate the DO criteria for waterbodies in this ecoregion. Previous ecoregion studies indicate the summer DO criteria could be 2.3 mg/L for subsegment 040901 and 3.8 mg/L for subsegment 040902. The recommended criteria were derived through the application of EPA approved statistical methods. This TMDL supports the potential revision of the DO criteria.

For a summer season projection to meet the DO criteria of 2.3 mg/L and 3.8 mg/L, the load reductions varied from zero to 73 percent as follows:

- Bayou Lacombe from Hwy. 36 to I-12 – 0%
- Bayou Lacombe from I-12 to Hwy. 190 – 60%
- Bayou Lacombe from Hwy. 190 to Big Branch Bayou – 40%

- Bayou Lacombe from Big Branch Bayou to Cypress Bayou – 0%
- Bayou Lacombe from Cypress Bayou to RKM 6.1 – 0%
- Bayou Lacombe from RKM 6.1to RKM 0.3 – 2%
- Bayou Lacombe RKM 0.3 to Lake Pontchartrain – 0%
- Big Branch Bayou all modeled reaches – 73%
- Cypress Bayou all modeled reaches – 73%

This information is provided in order to demonstrate what reductions might be required if the dissolved oxygen criteria are revised. Final criteria, and therefore final reductions, may be different.

The summer projections are presented in Figures 6 - 8. Winter projections are presented in Figures 12 – 14. Alternate summer projections are presented in Figures 9 – 11.

Figure 6. Bayou Lacombe Summer Projection to meet current DO Criteria of 5.0 mg/L for 040901 and a 4.0 mg/L for 040902

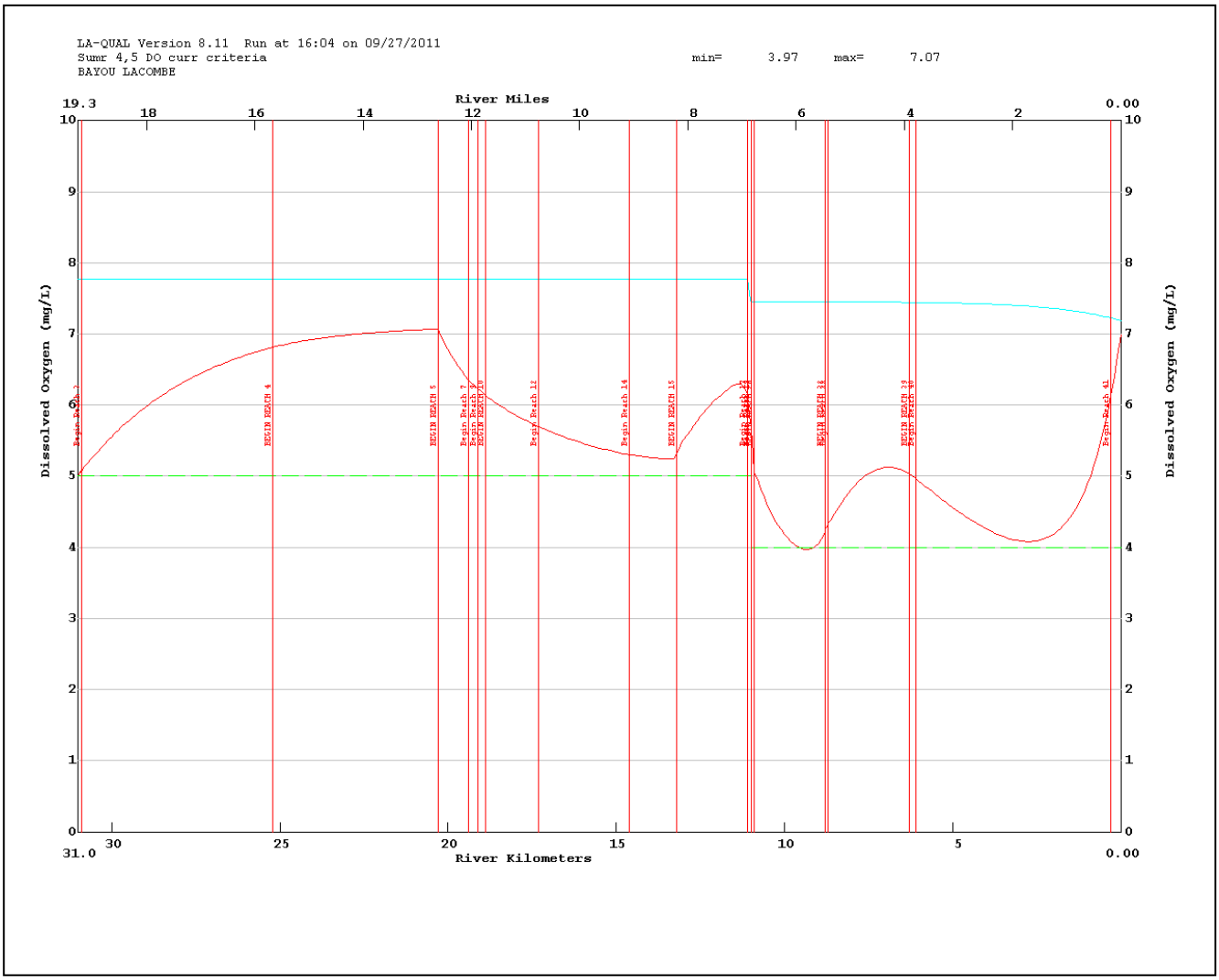


Figure 7. Big Branch Bayou Summer Projection to meet current DO Criterion of 4.0 mg/L

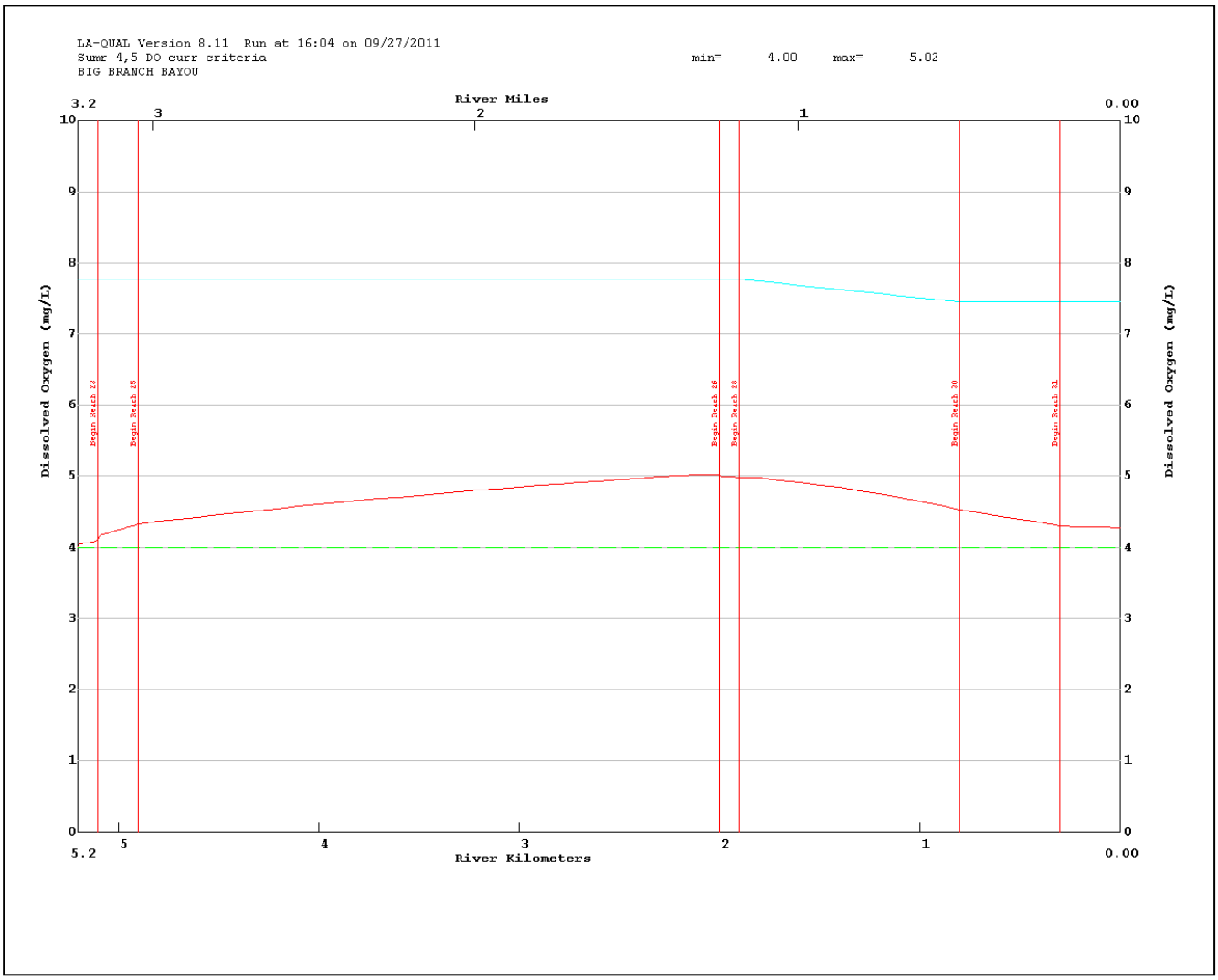
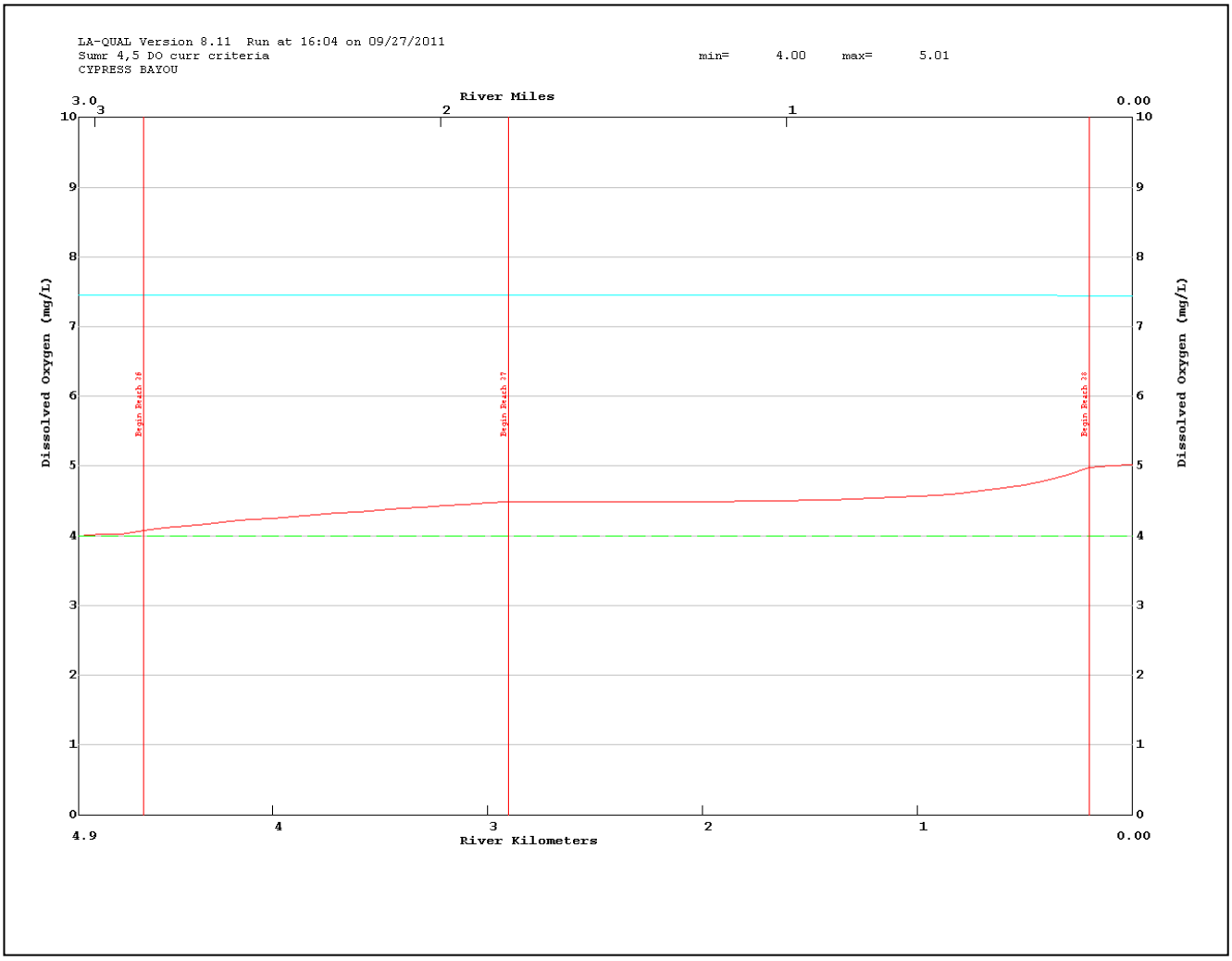


Figure 8. Cypress Bayou Summer Projection to meet current DO Criterion of 4.0 mg/L



6.3.2 Alternate Projection

An additional summer critical season projection was based on alternate DO targets of 2.3 mg/L for subsegment 040901 and 3.8 mg/L for subsegment 040902. The reductions required are summarized above and the graphs are shown below.

Figure 9. Bayou Lacombe Summer Projection to meet alternate DO Criteria of 2.3 mg/L in subsegment 040901 and 3.8 mg/L in 040902

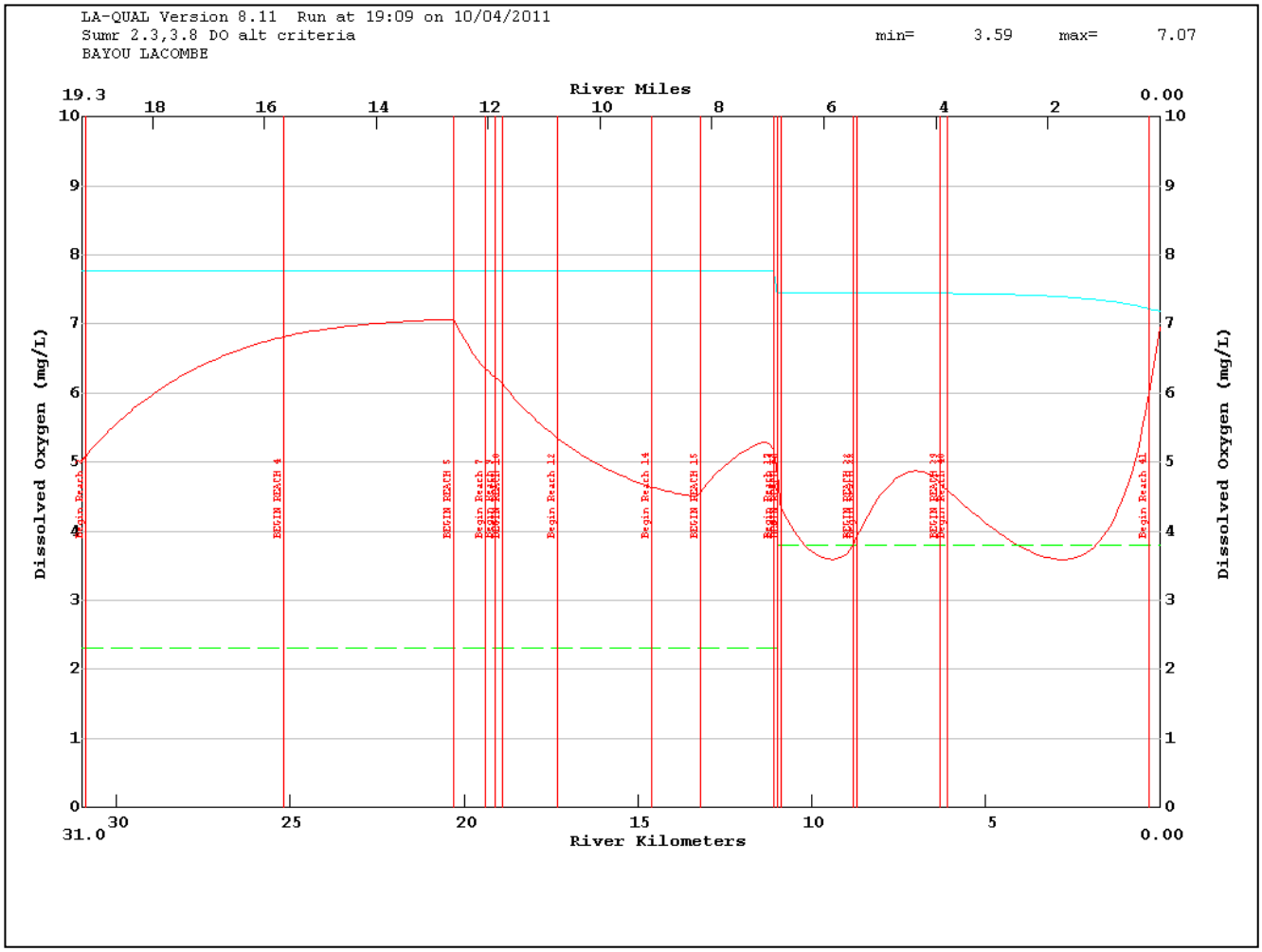


Figure 10. Big Branch Summer Projection to meet alternate DO Criterion of 3.8 mg/L

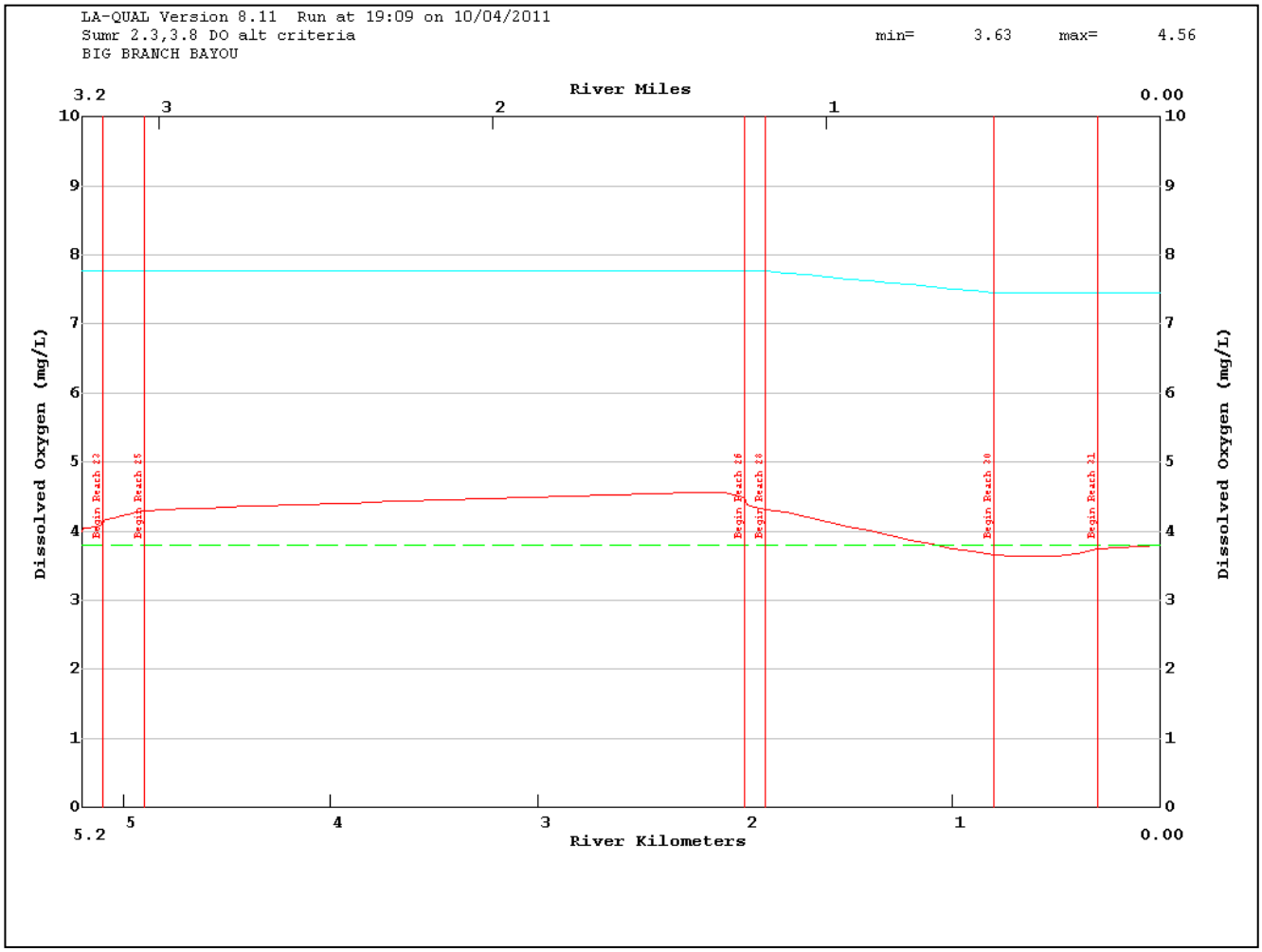
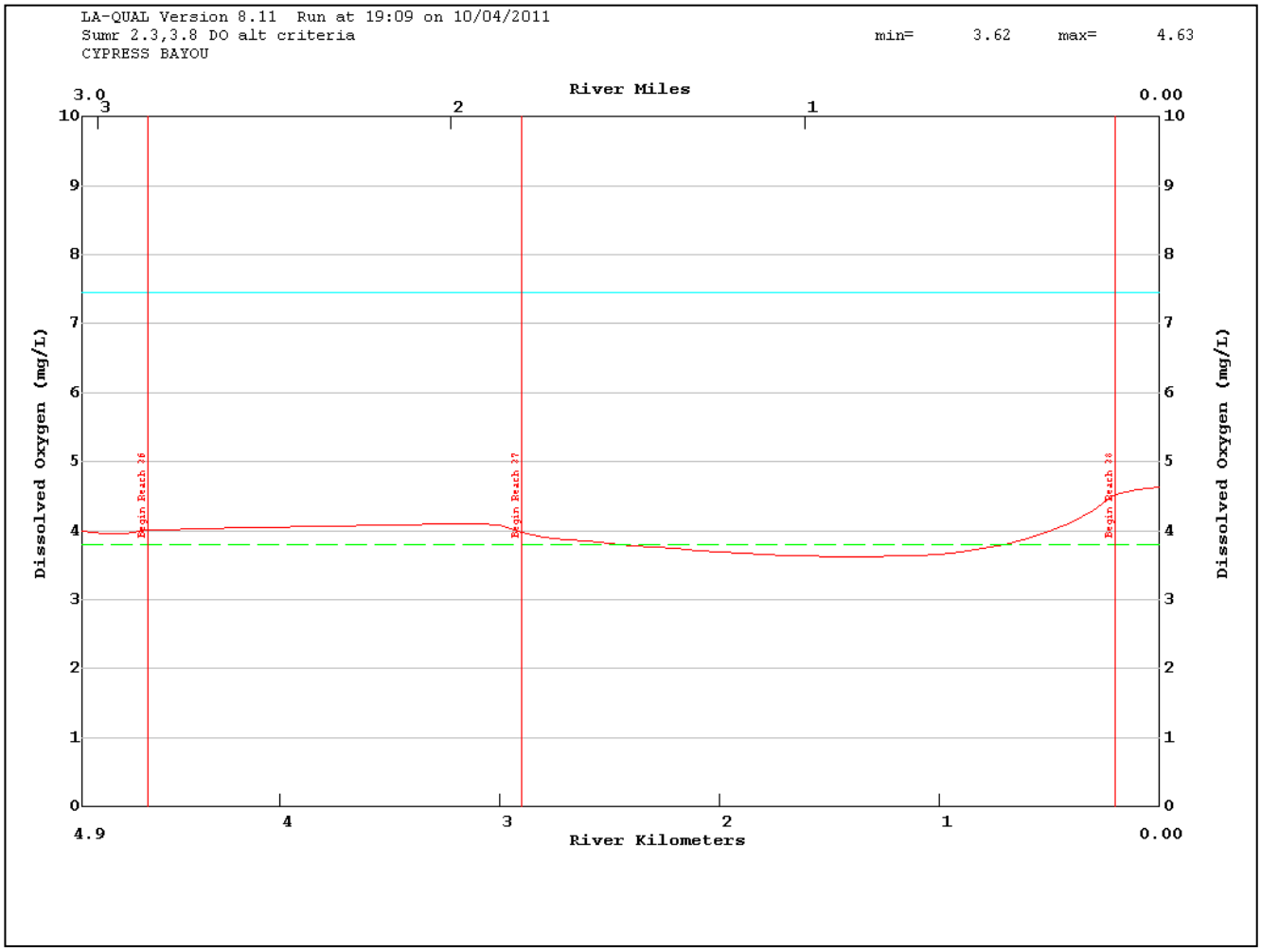


Figure 11. Cypress Bayou Summer Projection to meet alternate DO Criterion of 3.8 mg/L



6.3.3 Winter Projection

Winter runs were made at the same level of reduction as the summer runs. Graphs of the dissolved oxygen concentration versus river kilometer for the winter projections are presented in Figures 12 - 14.

Figure 12. Bayou Lacombe Winter Projection to meet current DO criteria of 5.0 mg/L in subsegment 040901 and 4.0 mg/L in subsegment 040902

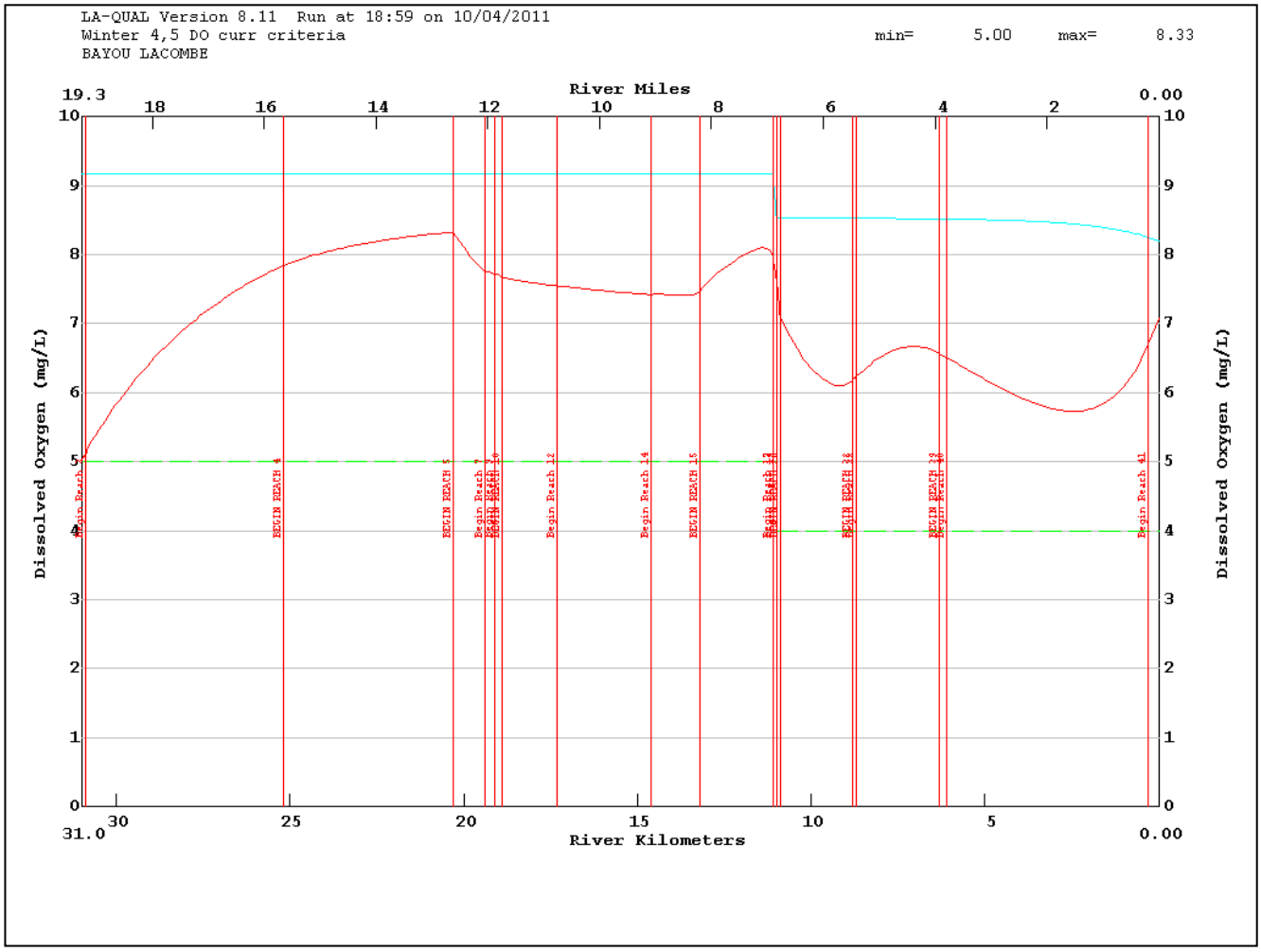


Figure 13. Big Branch Winter Projection to meet current DO criterion of 4.0 mg/L

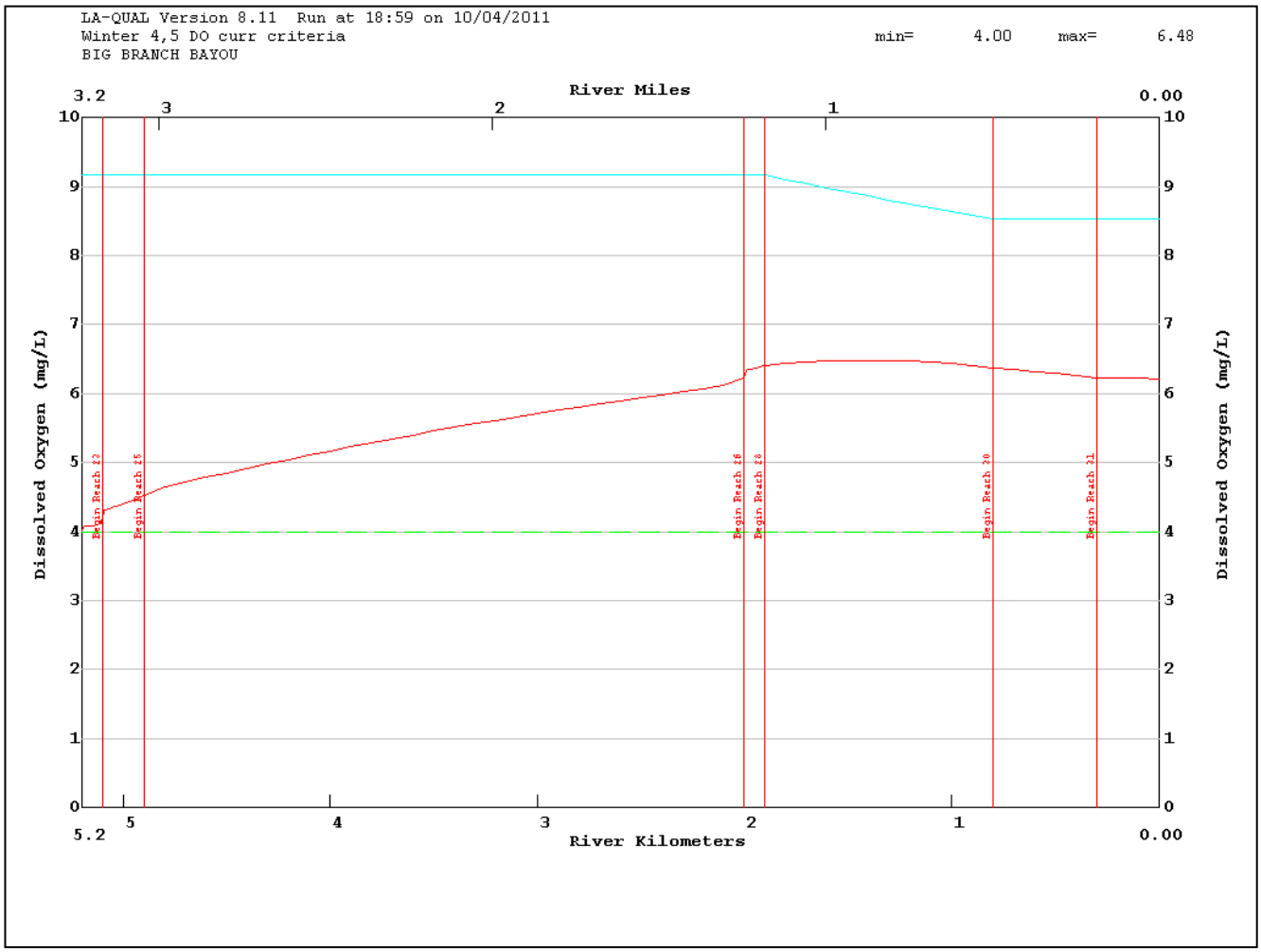
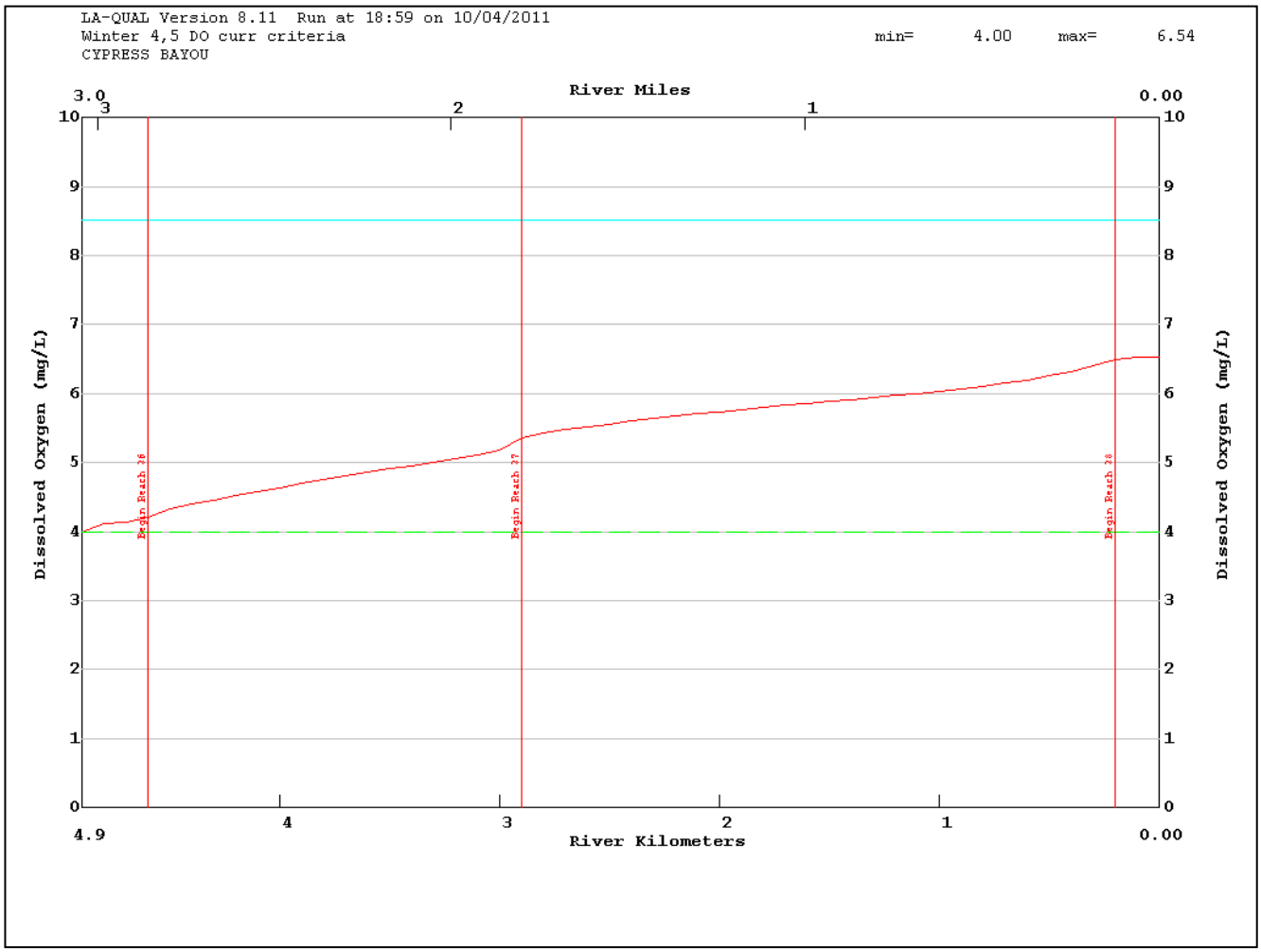


Figure 14. Cypress Bayou Winter Projection to meet current DO criterion of 4.0 mg/L



6.4 Calculated TMDL, WLAs and LAs

6.4.1 Outline of TMDL Calculations

An outline of the TMDL calculations is provided to assist in understanding the TMDL calculations. The outline is presented in Appendix A1.

6.4.2 Bayou Lacombe Subsegments 040901 and 040902 TMDL

EPA's stormwater permitting regulations require municipalities to obtain permit coverage for all stormwater discharges from MS4s. For each MS4 in the basin, a gross load was computed by dividing the acreage of the permitted area in the subsegment by the total area of the subsegment and multiplying the nonpoint source allocation by this ratio. Note that these values are estimates that can be refined in the future as more information about MS4s and land-use-specific loadings becomes available. Note that MS4s are permitted dischargers but function similarly to nonpoint sources (through storm-driven processes). EPA and LDEQ expect that the MS4 WLAs will be achieved through BMPs and adaptive management. The MS4 loads are presented in Tables 8 and 10.

TMDLs for the biochemical oxygen demanding constituents (CBOD, NBOD, and SOD), have been calculated for the summer and winter critical seasons based on current dissolved oxygen criteria. They are presented in Appendix A. A summary of the loads is presented in Tables 7 and 9.

7. Sensitivity Analysis

All modeling studies necessarily involve uncertainty and some degree of approximation. It is therefore of value to consider the sensitivity of the model output to changes in model coefficients, and in the hypothesized relationships among the parameters of the model. The LAQUAL model allows multiple parameters to be varied with a single run. The model adjusts each parameter up or down by the percentage given in the input set. The rest of the parameters listed in the sensitivity section are held at their original projection value. Thus the sensitivity of each parameter is reviewed separately.

A sensitivity analysis was performed on the calibration. The sensitivity of the model's minimum DO projections to these parameters is presented in Appendix I2. Parameters were varied by +/- 30%, except temperature, which was adjusted +/- 2 degrees Celsius.

Values reported in Appendix I2 are percentage variation of minimum DO in the main stem Bayou Lacombe. As shown in Table 18 for Bayou Lacombe, stream reaeration and benthal demand are the parameters to which DO is most sensitive. The model is moderately sensitive to initial temperature and chlorophyll-a. The model is slightly sensitive to insensitive to the remaining parameters. For Big Branch Bayou, benthal demand, stream reaeration, initial temperature, stream velocity, incremental inflow, stream depth, stream baseflow, and chlorophyll-a are the parameters to which DO is most sensitive. For Cypress Bayou, stream reaeration, benthal demand, initial temperature, depth, and chlorophyll-a are the parameters to which DO is most sensitive.

Table 18. Summary of Calibration Model Sensitivity Analysis

SENSITIVITY ANALYSIS SUMMARY

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

Plot 1 Base Model Minimum DO = 3.12, Bayou Lacombe

Parameter	%Param Chg	Min D.O.	%D.O. Chg	%Param Chg	Min D.O.	%D.O. Chg
Benthal Demand	30.	1.74	-44.4	-30.	4.73	51.4
Stream Reaeration	30.	4.20	34.4	-30.	1.68	-46.2
Initial Chorophyll a	30.	3.94	26.1	-30.	2.27	-27.4
Initial Temperature	2.	2.43	-22.2	-2.	3.81	22.0
Stream Depth	30.	3.70	18.6	-30.	2.53	-18.8
Non-Point Source CBOD	30.	2.68	-14.3	-30.	3.57	14.4
Stream Baseflow	30.	3.50	12.1	-30.	2.73	-12.7
CBOD Aerobic Decay Rate	30.	2.78	-10.8	-30.	3.53	12.9
Incremental Inflow	30.	3.41	9.1	-30.	2.83	-9.5
Stream Velocity	30.	2.92	-6.4	-30.	3.14	0.6
Non-Point Source NBOD	30.	2.93	-6.3	-30.	3.32	6.4
CBOD Settling Rate	30.	3.26	4.3	-30.	2.97	-5.0
NBOD Decay Rate	30.	3.00	-4.0	-30.	3.28	5.1
Headwater Flow	30.	3.23	3.3	-30.	3.02	-3.3
NBOD Settling Rate	30.	3.18	2.0	-30.	3.05	-2.2
Wasteload Flow	30.	3.09	-1.1	-30.	3.16	1.1
Incremental CBOD	30.	3.09	-1.0	-30.	3.15	1.0
Wasteload NBOD	30.	3.10	-0.8	-30.	3.15	0.8
Wasteload CBOD	30.	3.10	-0.6	-30.	3.14	0.6
Headwater CBOD	30.	3.11	-0.3	-30.	3.13	0.3
Incremental DO	30.	3.13	0.3	-30.	3.11	-0.3
Incremental NBOD	30.	3.12	-0.1	-30.	3.12	0.1
Stream Dispersion	30.	3.12	0.0	-30.	3.12	0.0
CBOD2 Aerobic Decay Rate	30.	3.12	0.0	-30.	3.12	0.0
CBOD2 Settling Rate	30.	3.12	0.0	-30.	3.12	0.0
Tidal Range	30.	3.12	0.0	-30.	3.12	0.0
Initial Salinity	30.	3.12	0.0	-30.	3.12	0.0
Incremental Temperature	30.	3.12	0.0	-30.	3.12	0.0
Incremental CBOD2	30.	3.12	0.0	-30.	3.12	0.0
Headwater Temperature	30.	3.12	0.0	-30.	3.12	0.0
Headwater DO	30.	3.12	0.0	-30.	3.12	0.0
Headwater CBOD2	30.	3.12	0.0	-30.	3.12	0.0
Headwater NBOD	30.	3.12	0.0	-30.	3.12	0.0
Wasteload Temperature	2.	3.12	0.0	-2.	3.12	0.0
Wasteload DO	30.	3.12	0.0	-30.	3.12	0.0
Wasteload CBOD2	30.	3.12	0.0	-30.	3.12	0.0
Ocean Exchange Ratio	30.	3.12	0.0	-30.	3.12	0.0
Lower Boundary Temperature	2.	3.12	0.0	-2.	3.12	0.0
Lower Boundary DO	30.	3.12	0.0	-30.	3.12	0.0
Lower Boundary CBOD	30.	3.12	0.0	-30.	3.12	0.0
Lower Boundary CBOD2	30.	3.12	0.0	-30.	3.12	0.0
Lower Boundary Chlorophyll a	30.	3.12	0.0	-30.	3.12	0.0
Lower Boundary NBOD	30.	3.12	0.0	-30.	3.12	0.0
Non-Point Source BOD2	30.	3.12	0.0	-30.	3.12	0.0

SENSITIVITY ANALYSIS SUMMARY

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

Plot 2 Base Model Minimum DO = 0.49, Big Branch Bayou

Parameter	%Param Chg	Min D.O.	%D.O. Chg	%Param Chg	Min D.O.	%D.O. Chg
Stream Reaeration	30.	1.66	240.1	-30.	0.00	-100.0
Benthal Demand	30.	0.00	-100.0	-30.	2.44	399.0
Initial Temperature	2.	0.00	-100.0	-2.	1.25	156.2
Stream Depth	30.	0.80	64.1	-30.	0.12	-74.8
Stream Baseflow	30.	0.77	57.7	-30.	0.15	-70.0
Incremental Inflow	30.	0.75	53.8	-30.	0.17	-65.4
Initial Chorophyll a	30.	0.75	52.7	-30.	0.21	-56.8
Stream Velocity	30.	0.70	43.6	-30.	0.21	-57.7
Incremental DO	30.	0.60	22.5	-30.	0.38	-22.8
Non-Point Source CBOD	30.	0.43	-12.7	-30.	0.56	13.6
CBOD Aerobic Decay Rate	30.	0.43	-12.7	-30.	0.56	15.5
Headwater Flow	30.	0.51	4.5	-30.	0.47	-4.4
CBOD Settling Rate	30.	0.51	4.0	-30.	0.47	-4.6
Non-Point Source NBOD	30.	0.47	-4.0	-30.	0.51	4.2
NBOD Decay Rate	30.	0.47	-3.6	-30.	0.51	4.6
Incremental CBOD	30.	0.47	-3.2	-30.	0.51	3.3
Wasteload NBOD	30.	0.48	-2.5	-30.	0.50	2.5
NBOD Settling Rate	30.	0.50	1.4	-30.	0.48	-1.6
Headwater DO	30.	0.50	1.4	-30.	0.48	-1.4
Wasteload CBOD	30.	0.48	-1.4	-30.	0.50	1.4
Wasteload Flow	30.	0.49	0.5	-30.	0.49	-0.5
Headwater CBOD	30.	0.49	-0.3	-30.	0.49	0.3
Incremental NBOD	30.	0.49	-0.2	-30.	0.49	0.2
Stream Dispersion	30.	0.49	0.0	-30.	0.49	0.0
CBOD2 Aerobic Decay Rate	30.	0.49	0.0	-30.	0.49	0.0
CBOD2 Settling Rate	30.	0.49	0.0	-30.	0.49	0.0
Tidal Range	30.	0.49	0.0	-30.	0.49	0.0
Initial Salinity	30.	0.49	0.0	-30.	0.49	0.0
Incremental Temperature	30.	0.49	0.0	-30.	0.49	0.0
Incremental CBOD2	30.	0.49	0.0	-30.	0.49	0.0
Headwater Temperature	30.	0.49	0.0	-30.	0.49	0.0
Headwater CBOD2	30.	0.49	0.0	-30.	0.49	0.0
Headwater NBOD	30.	0.49	0.0	-30.	0.49	0.0
Wasteload Temperature	2.	0.49	0.0	-2.	0.49	0.0
Wasteload DO	30.	0.49	0.0	-30.	0.49	0.0
Wasteload CBOD2	30.	0.49	0.0	-30.	0.49	0.0
Ocean Exchange Ratio	30.	0.49	0.0	-30.	0.49	0.0
Lower Boundary Temperature	2.	0.49	0.0	-2.	0.49	0.0
Lower Boundary DO	30.	0.49	0.0	-30.	0.49	0.0
Lower Boundary CBOD	30.	0.49	0.0	-30.	0.49	0.0
Lower Boundary CBOD2	30.	0.49	0.0	-30.	0.49	0.0
Lower Boundary Chlorophyll a	30.	0.49	0.0	-30.	0.49	0.0
Lower Boundary NBOD	30.	0.49	0.0	-30.	0.49	0.0
Non-Point Source BOD2	30.	0.49	0.0	-30.	0.49	0.0

SENSITIVITY ANALYSIS SUMMARY

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

Plot 3 Base Model Minimum DO = 0.47, Cypress Bayou

Parameter	%Param Chg	Min D.O.	%D.O. Chg	%Param Chg	Min D.O.	%D.O. Chg
Stream Reaeration	30.	1.34	186.7	-30.	0.00	-100.0
Benthal Demand	30.	0.00	-100.0	-30.	1.53	227.8
Initial Temperature	2.	0.00	-100.0	-2.	0.96	105.7
Initial Chorophyll a	30.	0.75	60.6	-30.	0.18	-62.4
Stream Depth	30.	0.72	53.3	-30.	0.15	-68.1
Stream Baseflow	30.	0.56	20.0	-30.	0.35	-25.1
Incremental Inflow	30.	0.55	18.0	-30.	0.36	-22.1
CBOD Aerobic Decay Rate	30.	0.39	-16.8	-30.	0.57	22.0
Stream Velocity	30.	0.52	12.2	-30.	0.39	-16.2
Incremental CBOD	30.	0.42	-10.6	-30.	0.52	12.2
Incremental DO	30.	0.51	10.0	-30.	0.42	-10.5
Non-Point Source CBOD	30.	0.43	-7.6	-30.	0.51	8.3
Headwater Flow	30.	0.48	2.6	-30.	0.45	-2.5
CBOD Settling Rate	30.	0.48	2.4	-30.	0.45	-2.6
Headwater CBOD	30.	0.46	-1.4	-30.	0.47	1.4
Headwater DO	30.	0.47	1.2	-30.	0.46	-1.2
Non-Point Source NBOD	30.	0.46	-0.7	-30.	0.47	0.7
NBOD Decay Rate	30.	0.46	-0.5	-30.	0.47	0.6
Wasteload CBOD	30.	0.47	-0.3	-30.	0.47	0.3
NBOD Settling Rate	30.	0.47	0.3	-30.	0.47	-0.3
Incremental NBOD	30.	0.47	-0.3	-30.	0.47	0.3
Wasteload DO	30.	0.47	0.2	-30.	0.47	-0.2
Wasteload NBOD	30.	0.47	-0.1	-30.	0.47	0.1
Stream Dispersion	30.	0.47	0.0	-30.	0.47	0.0
CBOD2 Aerobic Decay Rate	30.	0.47	0.0	-30.	0.47	0.0
CBOD2 Settling Rate	30.	0.47	0.0	-30.	0.47	0.0
Tidal Range	30.	0.47	0.0	-30.	0.47	0.0
Initial Salinity	30.	0.47	0.0	-30.	0.47	0.0
Incremental Temperature	30.	0.47	0.0	-30.	0.47	0.0
Incremental CBOD2	30.	0.47	0.0	-30.	0.47	0.0
Headwater Temperature	30.	0.47	0.0	-30.	0.47	0.0
Headwater CBOD2	30.	0.47	0.0	-30.	0.47	0.0
Headwater NBOD	30.	0.47	0.0	-30.	0.47	0.0
Wasteload Flow	30.	0.47	0.0	-30.	0.47	0.0
Wasteload Temperature	2.	0.47	0.0	-2.	0.47	0.0
Wasteload CBOD2	30.	0.47	0.0	-30.	0.47	0.0
Ocean Exchange Ratio	30.	0.47	0.0	-30.	0.47	0.0
Lower Boundary Temperature	2.	0.47	0.0	-2.	0.47	0.0
Lower Boundary DO	30.	0.47	0.0	-30.	0.47	0.0
Lower Boundary CBOD	30.	0.47	0.0	-30.	0.47	0.0
Lower Boundary CBOD2	30.	0.47	0.0	-30.	0.47	0.0
Lower Boundary Chlorophyll a	30.	0.47	0.0	-30.	0.47	0.0
Lower Boundary NBOD	30.	0.47	0.0	-30.	0.47	0.0
Non-Point Source BOD2	30.	0.47	0.0	-30.	0.47	0.0

8. Conclusions

This TMDL establishes load limitations for oxygen-demanding substances and goals for reduction of those pollutants. LDEQ's position is that when oxygen-demanding loads from point and nonpoint sources are reduced in order to ensure that the dissolved oxygen criterion is supported, nutrients are also reduced. The implementation of this TMDL through wastewater discharge permits and implementation of best management practices to control and reduce runoff of soil and oxygen-demanding pollutants from nonpoint sources in the watershed will also reduce the nutrient loading from those sources.

A calibrated water quality model and projections were developed for the watershed to quantify the nonpoint source load reductions which would be necessary in order for Bayou Lacombe, subsegments 040901 and 040902, to comply with its established water quality standards and criteria. This report presents the results of that analysis.

LDEQ is utilizing a phased TMDL approach for Bayou Lacombe as shown in Table 4. This approach provides LDEQ with the opportunity to revise the DO criteria and at the same time, allows LDEQ to develop a meaningful and implementable DO TMDL based upon the appropriate DO criteria and in accordance with EPA's Consent Decree (E. D. La. 2002) deadlines. At the same time, it will lead to improved water quality while providing local governments and businesses the opportunity to prepare and adjust to the new permit requirements that will be implemented as a result of the TMDLs developed in Phases I and II.

Phase I will include the development of loading values for the existing DO criteria for Bayou Lacombe. However, full implementation of permit limits will occur in a phased manner. Phase I will serve as the first step towards meeting the DO criteria. This approach gives local governments and stakeholders time to make the necessary adjustments to meet these limits. The implementation of permit limits will occur in according to the following strategy:

<u>Phase I Permit Implementation</u>

All TMDL, permitting, and enforcement activities will be conducted in accordance with the Clean Water Act, the Louisiana Environmental Regulatory Code, and applicable state laws.

1. New discharges of oxygen-demanding loads:

   Due to the ONRW status of Bayou Lacombe, the waterbody is afforded Tier 3 protection, according to 40 CFR 131.12 (a)(3). New or increased discharges that will cause degradation, as defined in LAC 33:IX.1119.C.4, will not be approved. However, in the event that such a discharge will not cause degradation and one of the requirements below can be attained, LDEQ may permit the new discharge. Such new facilities may be required to submit an environmental impact assessment to LDEQ's permitting staff, which will conduct a thorough evaluation of the proposed facility based on environmental impacts, economic benefits, an analysis of alternatives, and other pertinent factors. The typical permit limits will be 5 mg/L BOD_5 / 2 mg/L NH_3 / 5 mg/L DO.

a. The facility demonstrates that it will provide a significant load reduction of man-made oxygen-demanding constituents to the impaired watershed(s) serviced by the facility. The facility must also contribute to a reduction in the number of facilities discharging to the watershed(s). Facilities that may be considered for permits under this provision include, but are not limited to:

   i. A facility that will provide improved sewage treatment to multiple subdivisions previously serviced by wastewater treatment plants that are incapable of treating to tertiary limits.

   ii. A facility that will provide sewage collection and treatment to previously unsewered areas in which many of the sanitary discharges from permitted facilities and individual home treatment units were entering an impaired watershed. As a result, the facility would be expected to provide more efficient treatment to the wastewater and reduce the net loading of oxygen-demanding substances in the watershed.

b. The facility demonstrates that its wastewater will not leave the facility or its property. Significant stormwater events do not apply to this provision. For the purpose of this provision, a significant stormwater event is defined as the 25 year, 24 hour rainfall event or its numerical equivalent, as defined by the Southern Regional Climate Center.

   i. Facilities that may be considered under this provision include, but are not limited to:

      a. Effluent reduction and/or "no discharge" systems that have been approved by the Louisiana Department of Health and Hospitals.

      b. Wastewater treatment plants equipped with overland flow systems in which the effluent will not leave the facility.

      c. Wastewater treatment plants equipped with holding ponds that will retain the effluent such that the effluent will not leave the facility.

   ii. LDEQ recognizes that some local governments are in the process of building or expanding regional sewage collection and treatment systems. In such areas, LDEQ may, on a limited basis, grant permits of limited durations to facilities that agree to tie into a regional collection and treatment system when it becomes available. LDEQ

must have absolute assurance that the regional collection system will be available to the facility and the facility will connect to the regional collection system on or before the expiration date of the permit. Such assurance may include a formal agreement between the facility, the owner and operator of the regional wastewater treatment system, and LDEQ. The regional system must have the capacity to treat the additional wastewater. Such a permit may have a duration of less than five years or it may have a five year duration with interim permit limits. The permit will be written based on projected completion dates for the construction of the collection and treatment system. The facility will be required to cease all wastewater discharges to the Bayou Lacombe watershed and transfer the discharge to the regional collection system once the permit or interim limits expire or the collection system is available to the facility, whichever comes first. If the permit or interim limits expire, but, due to unforeseen circumstances, the availability of the collection system has been temporarily delayed, the duration of the permit or interim limits may be extended. If the availability of the collection system has been indefinitely delayed, the facility may be required to consider alternatives. Such alternatives may include processes that lead to a reduction or complete removal of the discharge to Bayou Lacombe, such as those outlined in item 1.b.i above or the use of a different flow path to state waters.

c. LDEQ reassesses Subsegments 040901 and 040902 (Bayou Lacombe). LDEQ determines that Subsegments 040901 and 040902 are meeting the appropriate DO criteria and designated uses.

2. Existing discharges of oxygen demanding loads:

The Phase I permit limits for existing dischargers in the Bayou Lacombe watershed are presented in Tables 5 and 6. Post-aeration is recommended. Existing facilities discovered to be discharging oxygen-demanding loads without LPDES permits as of the TMDL approval date are to be permitted in accordance with the limits established for existing facilities with permits. Unpermitted facilities that are newly activated or reactivated and discharging after the TMDL approval date may be subjected to enforcement actions and will be required to tie into regional collection and treatment systems, once those systems are available.

3. Nutrient monitoring (i.e., reporting for Total Nitrogen and Total Phosphorus) will be required for individual permits. Nutrient monitoring will be added to the general permit series (LAG530000, LAG540000, LAG560000, and LAG570000) upon the next scheduled renewal of each series.

Phase II will be developed based on the outcome of a planned ecoregion-based use attainability analysis (UAA). Based on existing data, this UAA may propose new DO criteria for many of the Lake Pontchartrain Basin TMDLs that are currently being developed. These TMDLs have a final deadline of March, 2012. This new DO criteria is expected to be developed and promulgated within the next two to three years.

In the event the new criteria is not developed and promulgated within five years from the TMDL approval date, LDEQ intends to proceed in the following manner:

> Case 1: The UAA study indicates that the current DO criterion is appropriate - the TMDL will be fully implemented based on the existing DO criteria.
> Case 2: The UAA is not likely to be completed and/or approved - the TMDL will be fully implemented based on the existing DO criteria.
> Case 3: The UAA is in process and is expected to be approved – Phase II of the TMDL will be postponed for a maximum period of 2 years. If the UAA has not been completed at the end of this period, the UAA status will be reviewed again according to Cases 1 - 3.

LDEQ recognizes there may be many unpermitted sources of oxygen-demanding loading within the Lake Pontchartrain Basin. These sources may include unpermitted facilities (privately owned treatment units for subdivisions or businesses). LDEQ has been locating unpermitted facilities and updating location information on permitted facilities in the Lake Pontchartrain Basin. The unpermitted facilities are required to apply for the appropriate LPDES (Louisiana Pollutant Discharge Elimination System) permits. LDEQ may conduct field surveys to gather information on facilities within the Bayou Lacombe watershed in the future. These unpermitted sources of oxygen-demanding loading may also include individual treatment units for residential homes and small businesses. The ability to accurately quantify the loads provided from these systems is extremely difficult due to lack of reliable information regarding the number of units and the loading provided by each individual unit. These unpermitted sources of loading add to the uncertainty of this TMDL and provide additional justification for the use of the phased TMDL approach.

Louisiana does not have numeric nutrient criteria at the present time. The original nutrient impairments for the Pontchartrain Basin were not based on quantitative assessments of historical nutrient data. The impairments were based on evaluative assessments that may have included dissolved oxygen. LDEQ and EPA plan to reevaluate the previous nutrient impairments in the Pontchartrain Basin. As a result, both the EPA and LDEQ expect the nutrient impairments to change from category 5 (impairment exists; TMDL required) to category 3 (insufficient data). Therefore LDEQ believes that TMDLs for dissolved oxygen should adequately address any potential nutrient impairments, in the absence of numeric nutrient criteria and quantitative assessments.

LDEQ is developing numeric nutrient criteria for waterbody types based on ecoregions in accordance with LDEQ's plan "Developing Nutrient Criteria for Louisiana 2006" which can be found at:

> http://www.deq.louisiana.gov/portal/Portals/0/planning/LA%20Nutrient%20Strategy%20Plan%20Final%20FOR%20WEB.pdf.

Waterbody types for nutrient criteria development in Louisiana are 1) inland rivers and streams; 2)

freshwater wetlands; 3) freshwater lakes and reservoirs; 4) big rivers and floodplains/boundary rivers and associated water bodies; and 5) estuarine and coastal waters (including up to Louisiana's three mile boundary in the Gulf of Mexico). Proposed approaches for nutrient criteria development are currently under review by LDEQ and EPA. Nutrient criteria can be implemented upon state promulgation and EPA approval as per 40 CFR 131.21

Upon development of nutrient criteria, a subsequent quantitative assessment of the waterbodies, and the development of full nutrient models, nutrient limits may be established for all facilities discharging to impaired waterbodies in the Pontchartrain Basin. LDEQ recommends that all facilities discharging to impaired waterbodies take a proactive approach and prepare for the possibility of nutrient limitations in their wastewater discharge permits in the near future. Such a proactive approach should include nutrient monitoring and documentation through facility Discharge Monitoring Reports (DMRs) in order to assess their nutrient loads and the need to modify their treatment processes for nutrient removal.

LDEQ recognizes there may be many unpermitted sources of oxygen-demanding loading within the Lake Pontchartrain Basin. These sources may include unpermitted facilities (privately owned treatment units for subdivisions or businesses). LDEQ has been locating unpermitted facilities and updating location information on permitted facilities in the Pontchartrain Basin. The unpermitted facilities are required to apply for the appropriate LPDES (National Pollutant Discharge Elimination System) permits. LDEQ may conduct field surveys to gather information on facilities within the Bayou Lacombe watershed in the future. These unpermitted sources of oxygen-demanding loading may also include individual treatment units for residential homes and small businesses. The ability to accurately quantify the loads provided from these systems is extremely difficult due to lack of reliable information regarding the number of units and the loading provided by each individual unit. These unpermitted sources of loading add to the uncertainty of this TMDL and provide additional justification for the use of the phased TMDL approach.

LDEQ recommends that the primary solution to the water quality problems for Bayou Lacombe include the large-scale regionalization of sewage treatment and the rehabilitation and upgrade of existing problematic (leaks, overflows, improperly sized pipes, etc.) sewage collection systems. In addition, nonpoint loading may contribute to the water quality impairments in Bayou Lacombe. This includes loading contributed by the MS4 permit for St. Tammany Parish. LDEQ recognizes that portions of Bayou Lacombe may be affected by neighboring wetlands.

The watershed drains areas that are regulated by one MS4 permit. The areas covered by this MS4 permit include many permitted and unpermitted facilities. While LDEQ does assume responsibility for these facilities, partial responsibility belongs to the MS4 permittee to ensure that water draining from the area of coverage does not impact the named waterbody. Reductions in the nonpoint loading presented in this report should apply to MS4 regulated areas.

The impact of stormwater loading on the waterbody under critical conditions is difficult to determine. Frequent monitoring at many sites may be monetarily and logistically prohibitive. Therefore it is impractical to set MS4 permit limits. However, appropriate BMP measures shall be incorporated into the MS4 permits to minimize the impacts of stormwater loads on water quality. All facilities discharging into the MS4 permit area should have appropriate limits that ensure the protection of the water quality. Such BMP measures should include the location of all wastewater discharges, the

elimination of illicit wastewater discharges, the regionalization of wastewater treatment, rehabilitating and upgrading sewer collection system lines, and other appropriate activities. Stormwater permits may also include a monitoring component, provided it is cost effective.

LDEQ is updating current information on permitted facilities and actively locating unpermitted facilities in the Pontchartrain Basin. The unpermitted facilities are encouraged to apply for the appropriate NPDES permit.

LDEQ has developed this TMDL to be consistent with the state antidegradation policy (LAC 33:IX.1109.A).

LDEQ will work with other agencies such as local Soil Conservation Districts to implement agricultural best management practices in the watershed through other Clean Water Act Programs such as the 319 programs. LDEQ will also continue to monitor the waters to determine whether standards are being attained.

In accordance with Section 106 of the federal Clean Water Act and under the authority of the Louisiana Environmental Quality Act, the LDEQ has established a comprehensive program for monitoring the quality of the state's surface waters. The LDEQ collects surface water samples at various locations, utilizing appropriate sampling methods and procedures for ensuring the quality of the data collected. The objectives of the surface water monitoring program are to determine the quality of the state's surface waters, to develop a long-term database for water quality trend analysis, and to monitor the effectiveness of pollution controls. The data obtained through the surface water monitoring program is used to develop the state's biennial 305(b) report (*Water Quality Inventory*) and the 303(d) list of impaired waters. This information is also utilized in establishing priorities for the LDEQ nonpoint source program.

The LDEQ is continuing to implement a watershed approach to surface water quality monitoring. In 2004 a four year sampling cycle replaced the previous five year cycle. Approximately one quarter of the states watersheds will be sampled each year so that all of the state's watersheds will be sampled within the four year cycle. This will allow LDEQ to determine whether there has been any improvement in water quality following implementation of the TMDLs. As the monitoring results are evaluated by LDEQ and approved by EPA, waterbodies may be added to or removed from the 303(d) list.

9. References

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10. Appendices

Appendix A – Detailed TMDL Analysis

Appendix A1 – Outline of TMDL Calculations

Outline of Typical TMDL Calculations

The calculations described below apply for waterbodies where an appropriate reference stream is available. For cases where no reference stream data is applicable, calculations and reductions are determined based upon the total load. Slight variances may occur based on individual cases.

1) The natural background benthic loading was estimated from reference stream resuspension (nonpoint CBOD and NBOD), and SOD load data.

2) The calibration man-made benthic loading was determined as follows:
   a) Calibration resuspension and SOD loads were summed for each reach as gm O_2/m^2-day to get the calibration benthic loading.
   b) The natural background benthic loading was subtracted from the calibration benthic loading to obtain the man-made calibration benthic loading.

3) Projection loads are determined by trial and error during the modeling process
   a) Resuspension and SOD loads are reduced by uniform percentages.
   b) Point sources are reduced as necessary to subsequently more stringent levels of treatment consistent with the size of the treatment facility as much as possible. Point source design flows are increased to obtain an explicit MOS of 20%.
   c) Headwater and tributary concentrations of CBOD, NBOD and DO range from reference stream levels to calibration levels based on the character of the headwater. Where headwaters and tributaries exhibit man-made pollutant loads in excess of reference stream values, the loadings are reduced by the same uniform percentages as the benthic loads.

4) The projection benthic loading at 20 °C is calculated as the sum of the projection resuspension and SOD components expressed as gm O_2/m^2-day.

5) The natural background benthic load is subtracted from the projection benthic load to obtain the man-made projection benthic load for each reach.

6) The percent reduction of man-made loads for each reach is determined from the difference between the projected man-made non-point load and the man-made non-point load found during calibration.

7) The projection loads are also computed in units of lb/d and kg/d for each kind.

8) The total stream loading capacity at critical water temperature is calculated as the sum of:
   a) Headwater and tributary CBOD and NBOD loading in lb/d and kg/d.
   b) The natural and man-made projection benthic loading for all reaches of the stream, converted to the loading at critical temperature and summed in lb/d and kg/d.
   c) Point source CBOD and NBOD loading in lb/d and kg/d.
   d) The margin of safety in lb/d and kg/d.

Appendix A2 – Bayou Lacombe 040901 Summer TMDL Summary

Summer TMDL Summary:

Bayou Lacombe Subsegment 040901

Calculation of the TMDL - Kilograms per day

Load description	WLA (kg O_2/day)	CBOD1 LA (kg O_2/day)	NBOD LA (kg O_2/day)	SOD LA (kg O_2/day)	LA (kg O_2/day)	MOS Load (kg O_2/day)
Point Source loads	16					4
Headwater / Tributatary loads		14	0		14	3
Benthic loads		156	55	268	479	120
Incremental Loads		38	2		39	10
SUB-TOTAL	**16**	**207**	**57**	**268**	**532**	**137**
TMDL = WLA + LA + MOS					***686 kg/day***	

Notes:
(1) - Load(lbs/day) = Load(kg/day) x 2.205

Calculation of the TMDL - Pounds per day

Load description	WLA (lbs O_2/day)	CBOD1 LA (lbs O_2/day)	NBOD LA (lbs O_2/day)	SOD LA (lbs O_2/day)	LA (lbs O_2/day)	MOS Load (lbs O_2/day)
Point Source loads	36					9
Headwater / Tributatary loads		30	0		31	8
Benthic loads		343	122	591	1,056	264
Incremental Loads		83	3		86	22
SUB-TOTAL	**36**	**456**	**126**	**591**	**1,173**	**302**
TMDL = WLA + LA + MOS					***1,512 lbs/day***	

Notes:
(1) - Load(lbs/day) = Load(kg/day) x 2.205

Calculation of the TMDL - Kilograms per day

Load description	WLA (kg O_2/day)	CBOD1 LA (kg O_2/day)	NBOD LA (kg O_2/day)	SOD LA (kg O_2/day)	LA (kg O_2/day)	MOS Load (kg O_2/day)
Point Source loads	16					4
Natural Nonpoint Loads		0	0	0	0	
Manmade Nonpoint Loads		207	57	268	532	133
SUB-TOTAL	**16**	**207**	**57**	**268**	**532**	**137**
TMDL = WLA + LA + MOS					***686 kg/day***	

Calculation of the TMDL - Pounds per day

Load description	WLA (lbs O_2/day)	CBOD1 LA (lbs O_2/day)	NBOD LA (lbs O_2/day)	SOD LA (lbs O_2/day)	LA (lbs O_2/day)	MOS Load (lbs O_2/day)
Point Source loads	36					9
Natural Nonpoint Loads		0	0	0	0	
Manmade Nonpoint Loads		456	126	591	1,173	293
SUB-TOTAL	**36**	**456**	**126**	**591**	**1,173**	**302**
TMDL = WLA + LA + MOS					***1,512 lbs/day***	

Appendix A3 – Bayou Lacombe 040901 Winter TMDL Summary

Winter TMDL Summary:

Bayou Lacombe Subsegment 040901

Calculation of the TMDL - Kilograms per day

Load description	WLA (kg O_2/day)	CBOD1 LA (kg O_2/day)	NBOD LA (kg O_2/day)	SOD LA (kg O_2/day)	LA (kg O_2/day)	MOS Load (kg O_2/day)
Point Source loads	16					4
Headwater / Tributatary loads		16	1		16	4
Benthic loads		156	55	154	365	91
Incremental Loads		38	2		39	10
SUB-TOTAL	**16**	**209**	**58**	**154**	**421**	**109**
TMDL = WLA + LA + MOS					***546 kg/day***	

Notes:
(1) - Load(lbs/day) = Load(kg/day) x 2.205

Calculation of the TMDL - Pounds per day

Load description	WLA (lbs O_2/day)	CBOD1 LA (lbs O_2/day)	NBOD LA (lbs O_2/day)	SOD LA (lbs O_2/day)	LA (lbs O_2/day)	MOS Load (lbs O_2/day)
Point Source loads	36					9
Headwater / Tributatary loads		34	2		36	9
Benthic loads		343	122	339	805	201
Incremental Loads		83	3		86	22
SUB-TOTAL	**36**	**460**	**128**	**339**	**927**	**241**
TMDL = WLA + LA + MOS					***1,204 lbs/day***	

Notes:
(1) - Load(lbs/day) = Load(kg/day) x 2.205

Calculation of the TMDL - Kilograms per day

Load description	WLA (kg O_2/day)	CBOD1 LA (kg O_2/day)	NBOD LA (kg O_2/day)	SOD LA (kg O_2/day)	LA (kg O_2/day)	MOS Load (kg O_2/day)
Point Source loads	16					4
Natural Nonpoint Loads		0	0	0	0	
Manmade Nonpoint Loads		209	58	154	421	105
SUB-TOTAL	**16**	**209**	**58**	**154**	**421**	**109**
TMDL = WLA + LA + MOS					***546 kg/day***	

Calculation of the TMDL - Pounds per day

Load description	WLA (lbs O_2/day)	CBOD1 LA (lbs O_2/day)	NBOD LA (lbs O_2/day)	SOD LA (lbs O_2/day)	LA (lbs O_2/day)	MOS Load (lbs O_2/day)
Point Source loads	36					9
Natural Nonpoint Loads		0	0	0	0	
Manmade Nonpoint Loads		460	128	339	927	232
SUB-TOTAL	**36**	**460**	**128**	**339**	**927**	**241**
TMDL = WLA + LA + MOS					***1,204 lbs/day***	

Appendix A4 – Bayou Lacombe 040902 Summer TMDL Summary

Summer TMDL Summary:

Bayou Lacombe Subsegment 040902

Calculation of the TMDL - Kilograms per day

Load description	WLA (kg O_2/day)	CBOD1 LA (kg O_2/day)	NBOD LA (kg O_2/day)	SOD LA (kg O_2/day)	LA (kg O_2/day)	MOS Load (kg O_2/day)
Point Source loads	43					11
Headwater / Tributatary loads		7	1		8	2
Benthic loads		1,990	490	2,268	4,748	1,187
Incremental Loads		60	8		69	17
SUB-TOTAL	**43**	**2,057**	**500**	**2,268**	**4,825**	**1,217**
TMDL = WLA + LA + MOS					***6,086 kg/day***	

Notes:
(1) - Load(lbs/day) = Load(kg/day) x 2.205

Calculation of the TMDL - Pounds per day

Load description	WLA (lbs O_2/day)	CBOD1 LA (lbs O_2/day)	NBOD LA (lbs O_2/day)	SOD LA (lbs O_2/day)	LA (lbs O_2/day)	MOS Load (lbs O_2/day)
Point Source loads	96					24
Headwater / Tributatary loads		16	2		18	4
Benthic loads		4,388	1,080	5,001	10,470	2,617
Incremental Loads		133	19		152	38
SUB-TOTAL	**96**	**4,537**	**1,101**	**5,001**	**10,639**	**2,684**
TMDL = WLA + LA + MOS					***13,419 lbs/day***	

Notes:
(1) - Load(lbs/day) = Load(kg/day) x 2.205

Calculation of the TMDL - Kilograms per day

Load description	WLA (kg O_2/day)	CBOD1 LA (kg O_2/day)	NBOD LA (kg O_2/day)	SOD LA (kg O_2/day)	LA (kg O_2/day)	MOS Load (kg O_2/day)
Point Source loads	43					11
Natural Nonpoint Loads		0	0	0	0	
Manmade Nonpoint Loads		2,057	500	2,268	4,825	1,206
SUB-TOTAL	**43**	**2,057**	**500**	**2,268**	**4,825**	**1,217**
TMDL = WLA + LA + MOS					***6,086 kg/day***	

Calculation of the TMDL - Pounds per day

Load description	WLA (lbs O_2/day)	CBOD1 LA (lbs O_2/day)	NBOD LA (lbs O_2/day)	SOD LA (lbs O_2/day)	LA (lbs O_2/day)	MOS Load (lbs O_2/day)
Point Source loads	96					24
Natural Nonpoint Loads		0	0	0	0	
Manmade Nonpoint Loads		4,537	1,101	5,001	10,639	2,660
SUB-TOTAL	**96**	**4,537**	**1,101**	**5,001**	**10,639**	**2,684**
TMDL = WLA + LA + MOS					***13,419 lbs/day***	

Appendix A5 – Bayou Lacombe 040902 Winter TMDL Summary

Winter TMDL Summary:

Bayou Lacombe Subsegment 040902

Calculation of the TMDL - Kilograms per day

Load description	WLA (kg O_2/day)	CBOD1 LA (kg O_2/day)	NBOD LA (kg O_2/day)	SOD LA (kg O_2/day)	LA (kg O_2/day)	MOS Load (kg O_2/day)
Point Source loads	43					11
Headwater / Tributatary loads		8	2		10	2
Benthic loads		1,990	490	1,410	3,891	973
Incremental Loads		60	8		69	17
SUB-TOTAL	**43**	**2,058**	**500**	**1,410**	**3,969**	**1,003**
TMDL = WLA + LA + MOS					***5,015 kg/day***	

Notes:
(1) - Load(lbs/day) = Load(kg/day) x 2.205

Calculation of the TMDL - Pounds per day

Load description	WLA (lbs O_2/day)	CBOD1 LA (lbs O_2/day)	NBOD LA (lbs O_2/day)	SOD LA (lbs O_2/day)	LA (lbs O_2/day)	MOS Load (lbs O_2/day)
Point Source loads	96					24
Headwater / Tributatary loads		18	3		21	5
Benthic loads		4,388	1,080	3,110	8,579	2,145
Incremental Loads		133	19		152	38
SUB-TOTAL	**96**	**4,539**	**1,103**	**3,110**	**8,752**	**2,212**
TMDL = WLA + LA + MOS					***11,059 lbs/day***	

Notes:
(1) - Load(lbs/day) = Load(kg/day) x 2.205

Calculation of the TMDL - Kilograms per day

Load description	WLA (kg O_2/day)	CBOD1 LA (kg O_2/day)	NBOD LA (kg O_2/day)	SOD LA (kg O_2/day)	LA (kg O_2/day)	MOS Load (kg O_2/day)
Point Source loads	43					11
Natural Nonpoint Loads		0	0	0	0	
Manmade Nonpoint Loads		2,058	500	1,410	3,969	992
SUB-TOTAL	**43**	**2,058**	**500**	**1,410**	**3,969**	**1,003**
TMDL = WLA + LA + MOS					***5,015 kg/day***	

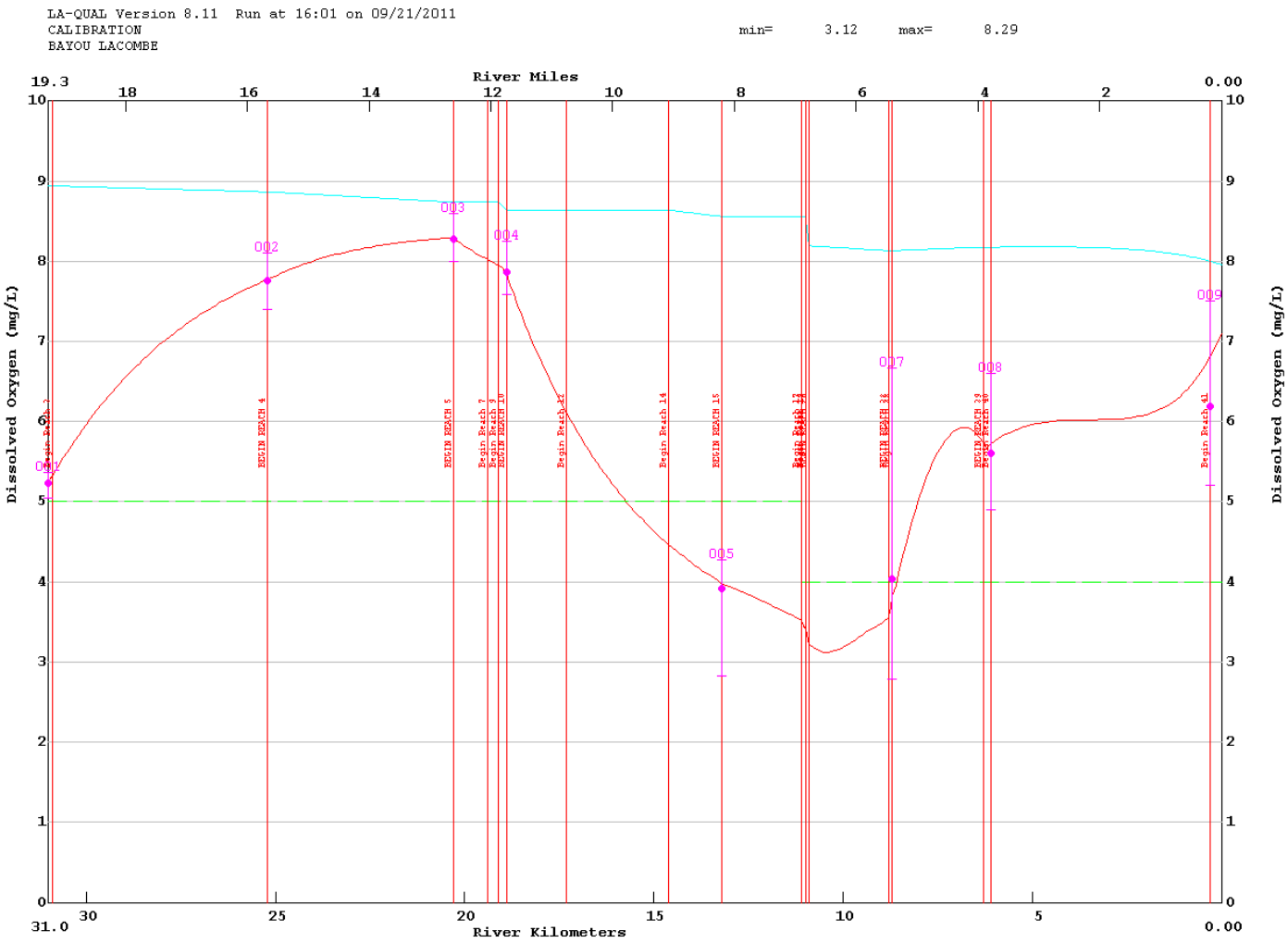
Calculation of the TMDL - Pounds per day

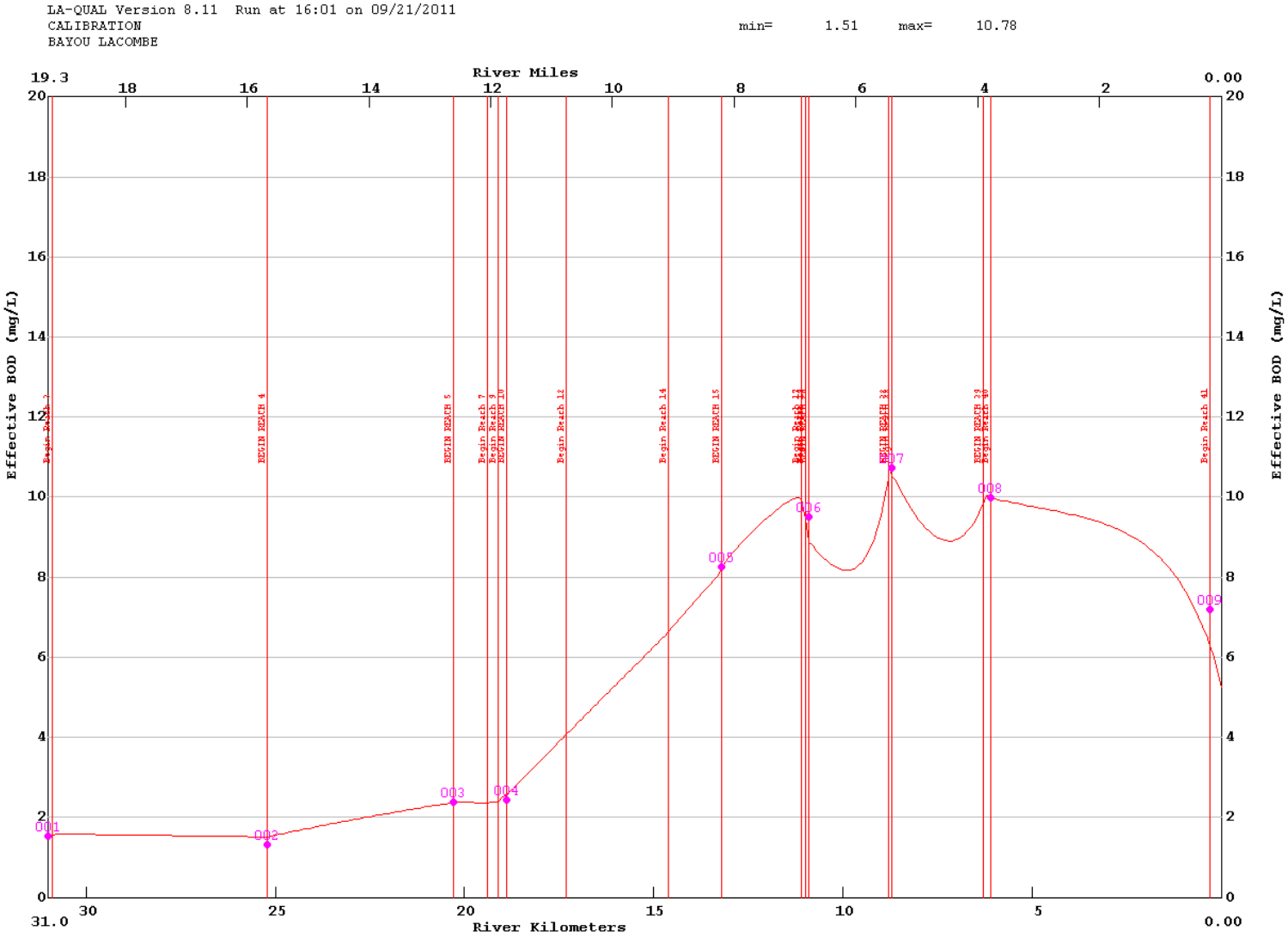
Load description	WLA (lbs O_2/day)	CBOD1 LA (lbs O_2/day)	NBOD LA (lbs O_2/day)	SOD LA (lbs O_2/day)	LA (lbs O_2/day)	MOS Load (lbs O_2/day)
Point Source loads	96					24
Natural Nonpoint Loads		0	0	0	0	
Manmade Nonpoint Loads		4,539	1,103	3,110	8,752	2,188
SUB-TOTAL	**96**	**4,539**	**1,103**	**3,110**	**8,752**	**2,212**
TMDL = WLA + LA + MOS					***11,059 lbs/day***	

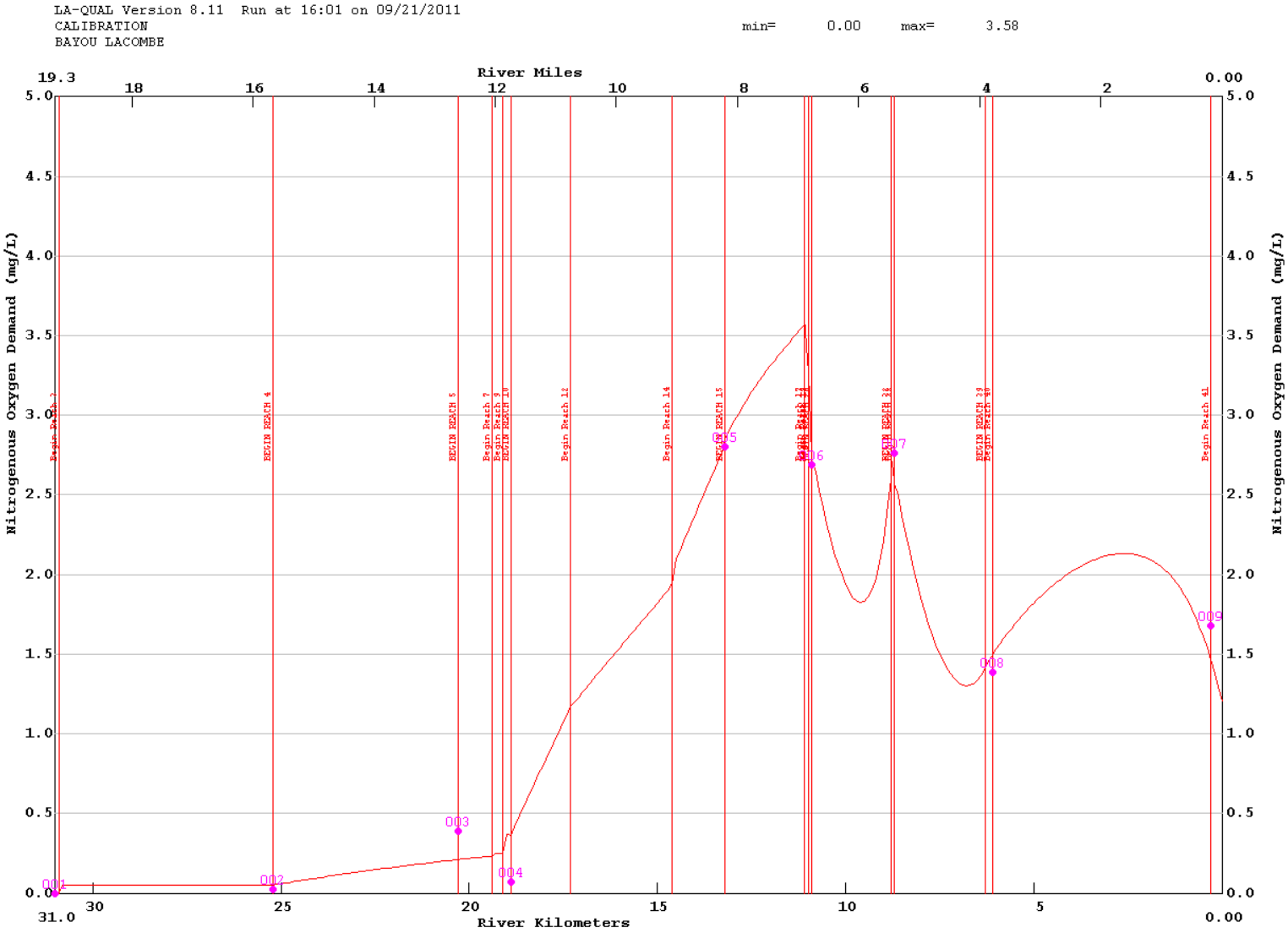
Appendix B – Calibration Model Input and Output Data Sets

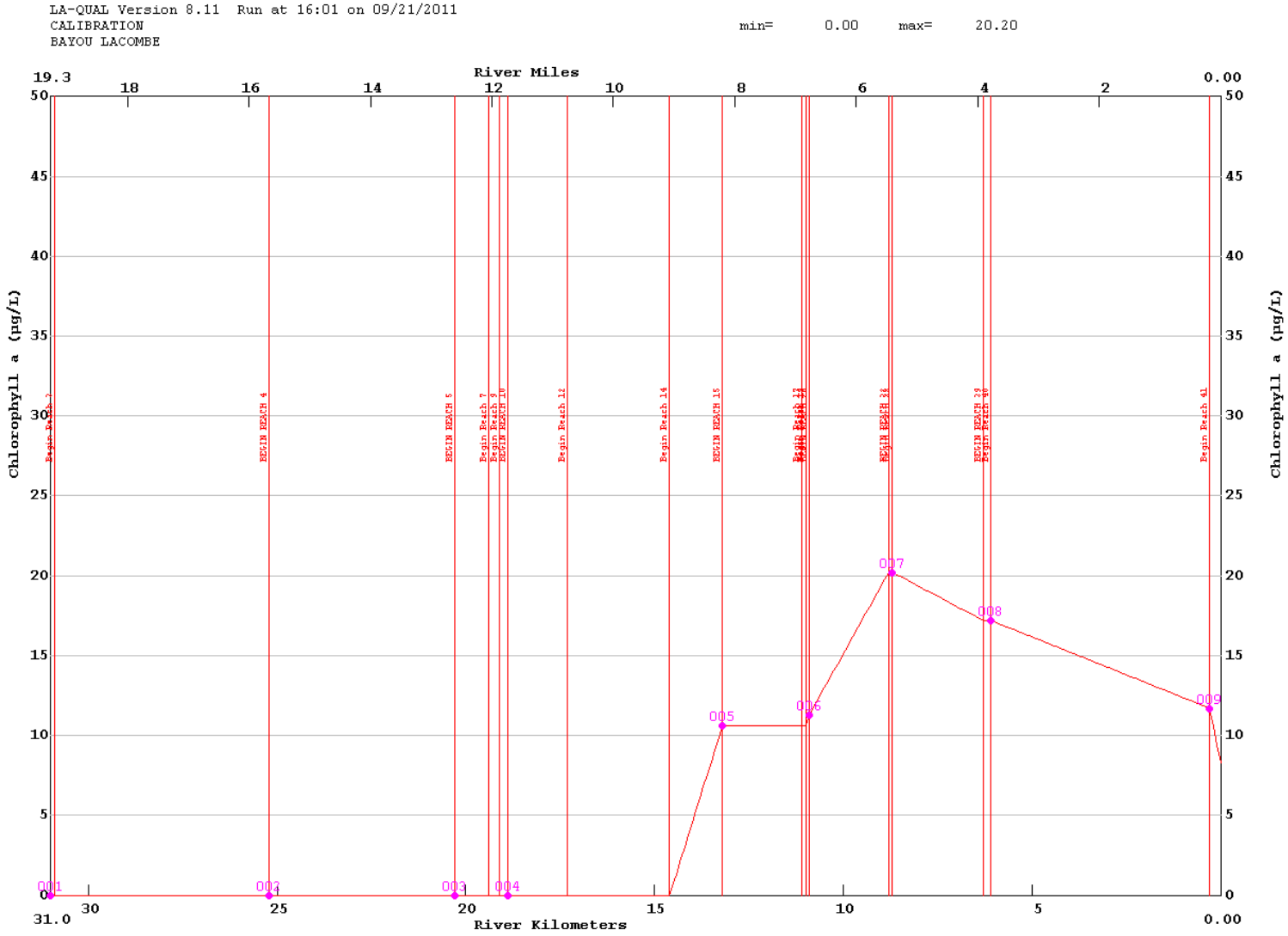
Appendix B1 – Calibration Output Graphs and Input, Overlay, and Output Files

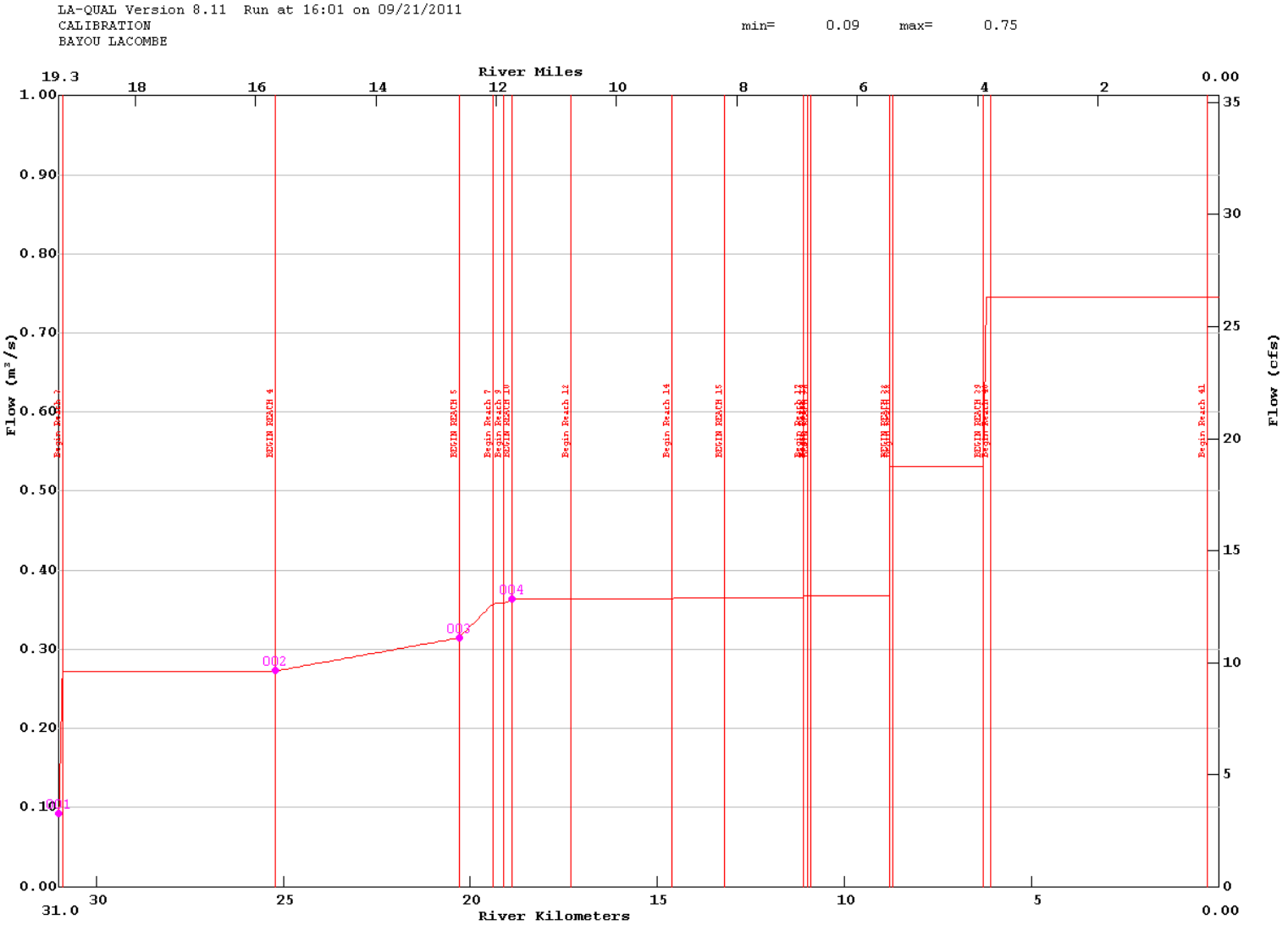
Bayou Lacombe

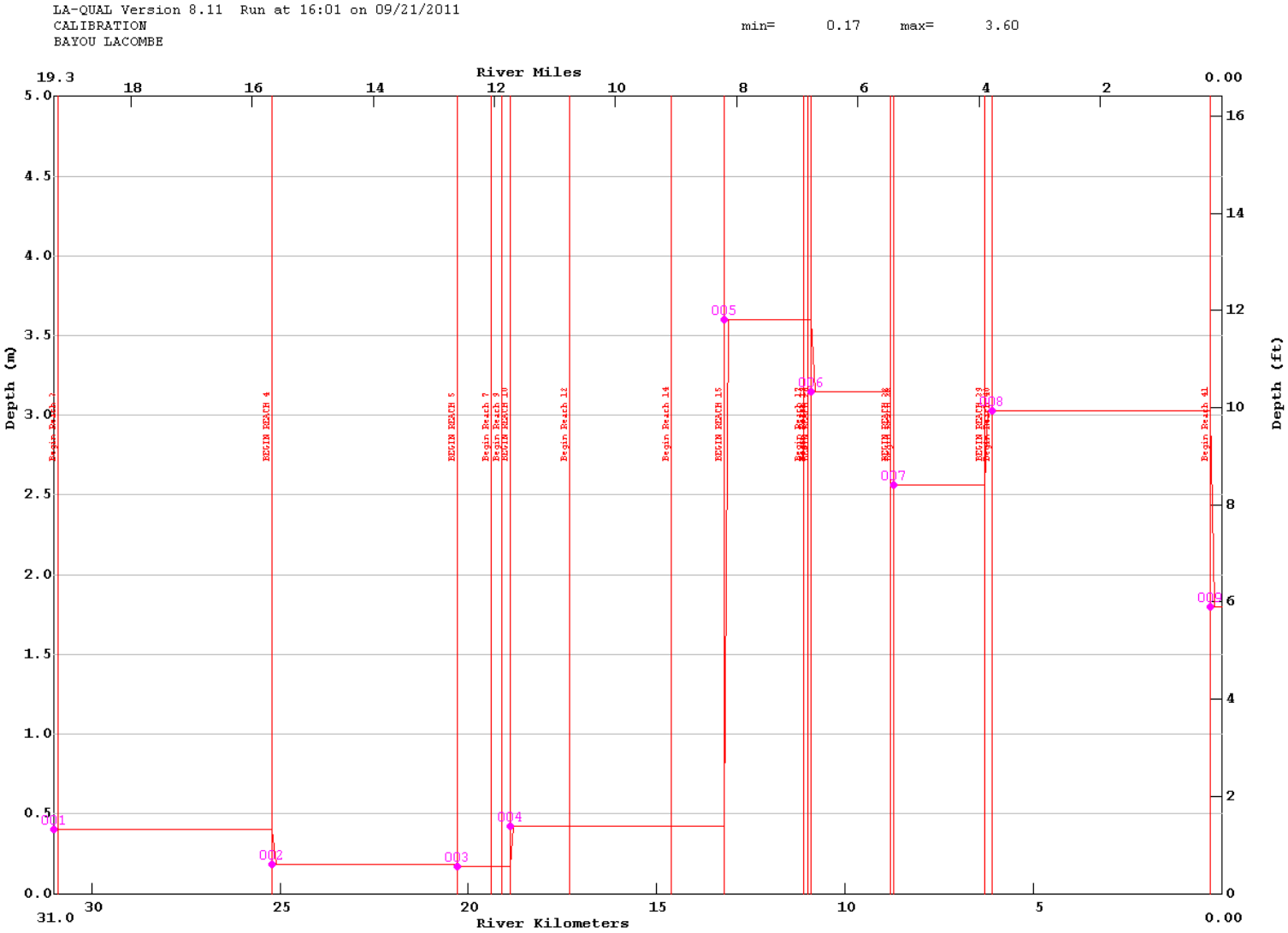


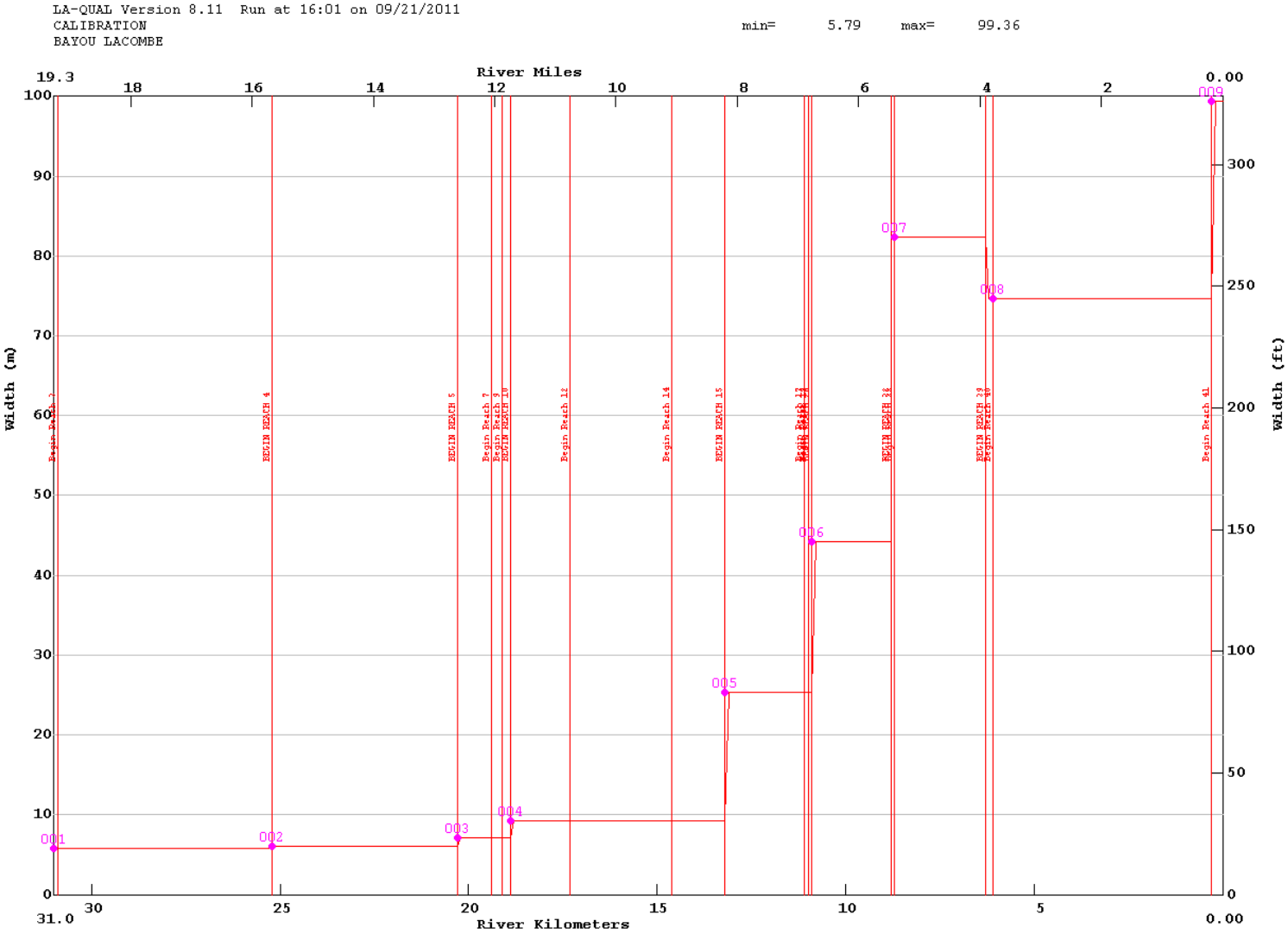

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BAYOU LACOMBE
min= 1.51 max= 10.78
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Effective BOD (mg/L)
20
18
16
14
12
10
8
6
4
2
0
31.0
30
25
20
15
10
5
0.00
River Kilometers
001
002
003
004
006
007
008
009

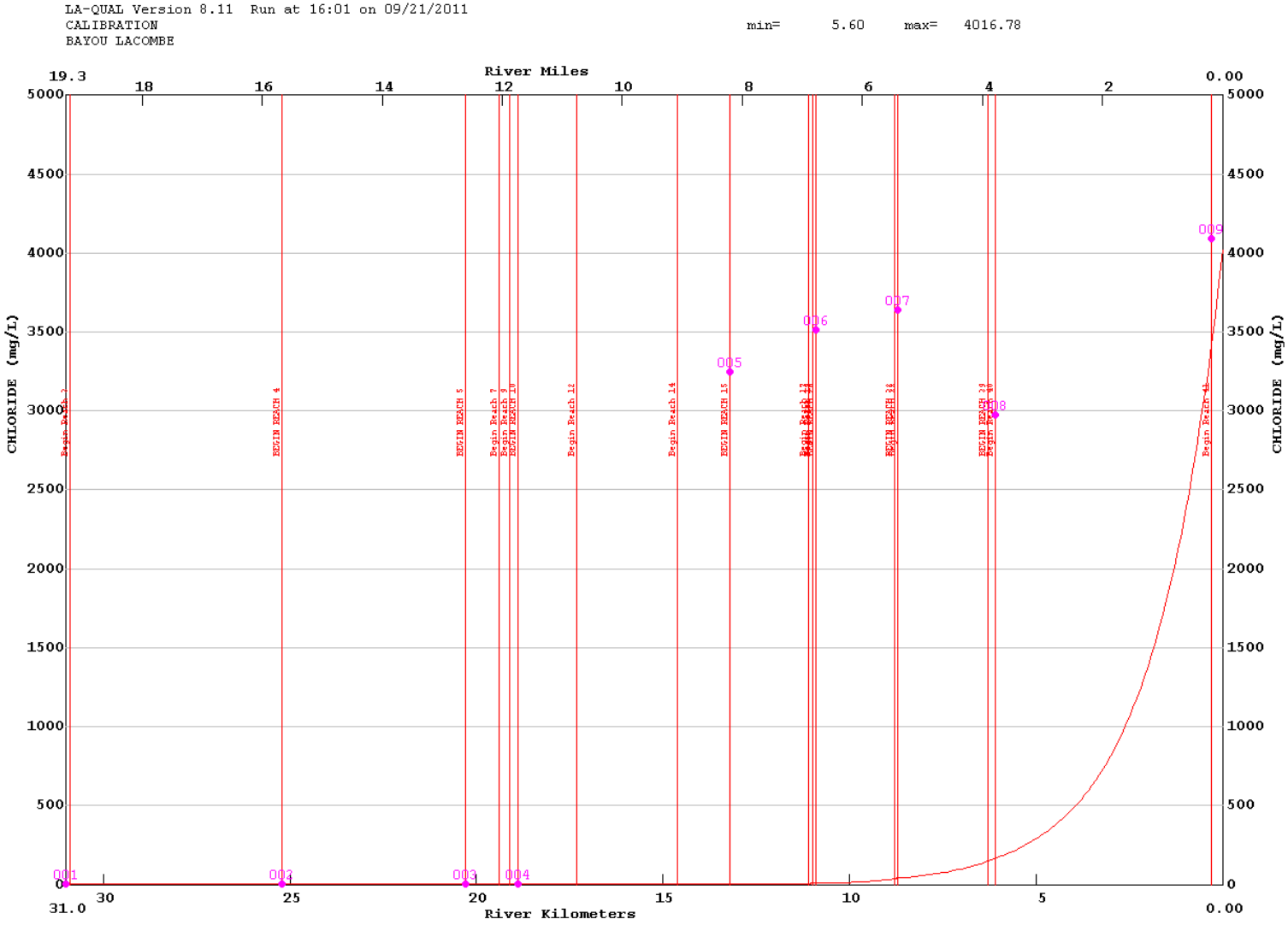

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BAYOU LACOMBE
min= 0.00 max= 3.58
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Nitrogenous Oxygen Demand (mg/L)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
001
002
003
004
005
006
007
008
009
31.0
30
25
20
15
10
5
0.00
River Kilometers

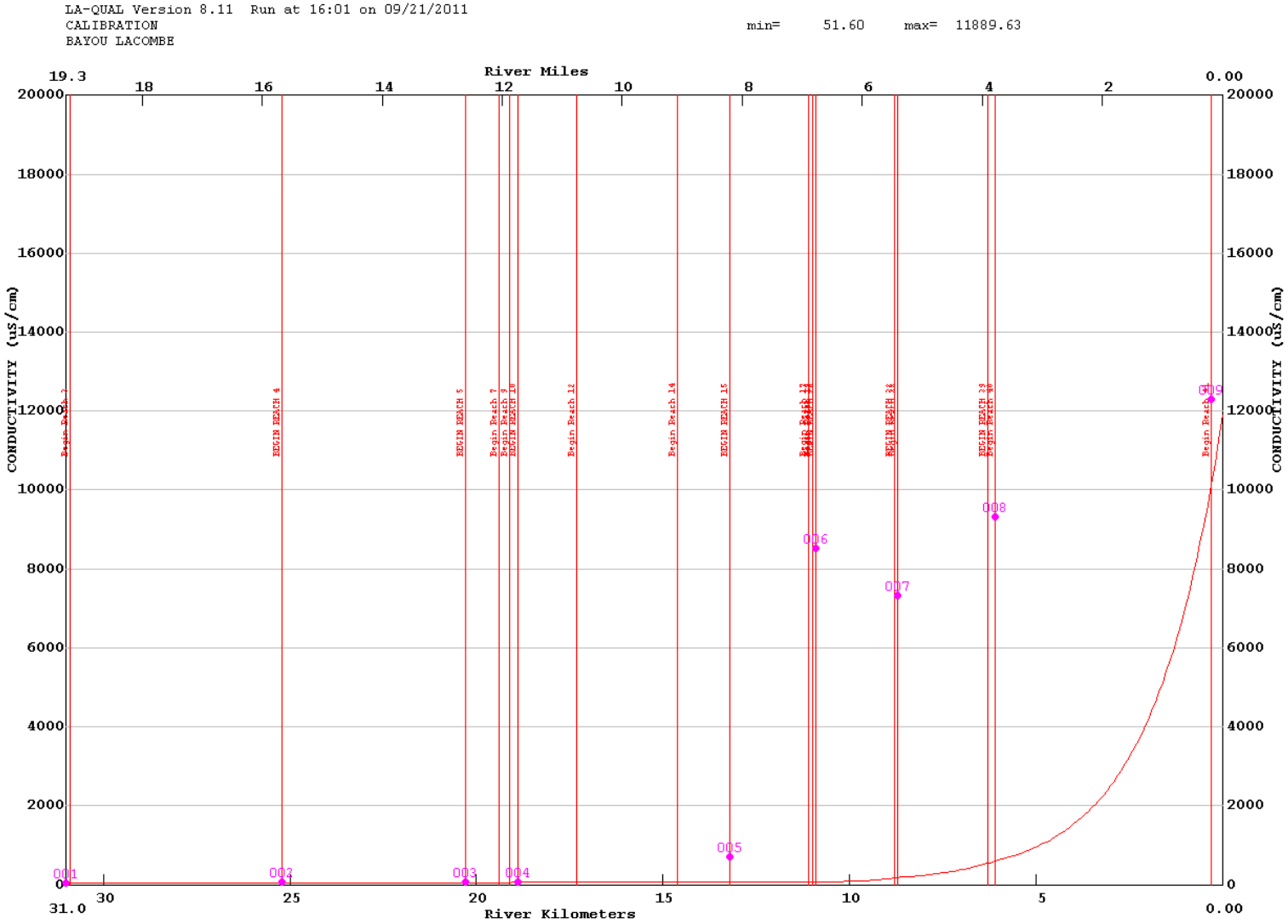

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BAYOU LACOMBE
min= 0.00 max= 20.20
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Chlorophyll a (µg/L)
50
45
40
35
30
25
20
15
10
5
0
001
002
003
004
005
006
007
008
009
31.0
30
25
20
15
10
5
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BAYOU LACOMBE
min= 0.09 max= 0.75
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Flow (m³/s)
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Flow (cfs)
35
30
25
20
15
10
5
0
001
002
003
004
31.0
30
25
20
15
10
5
0.00
River Kilometers

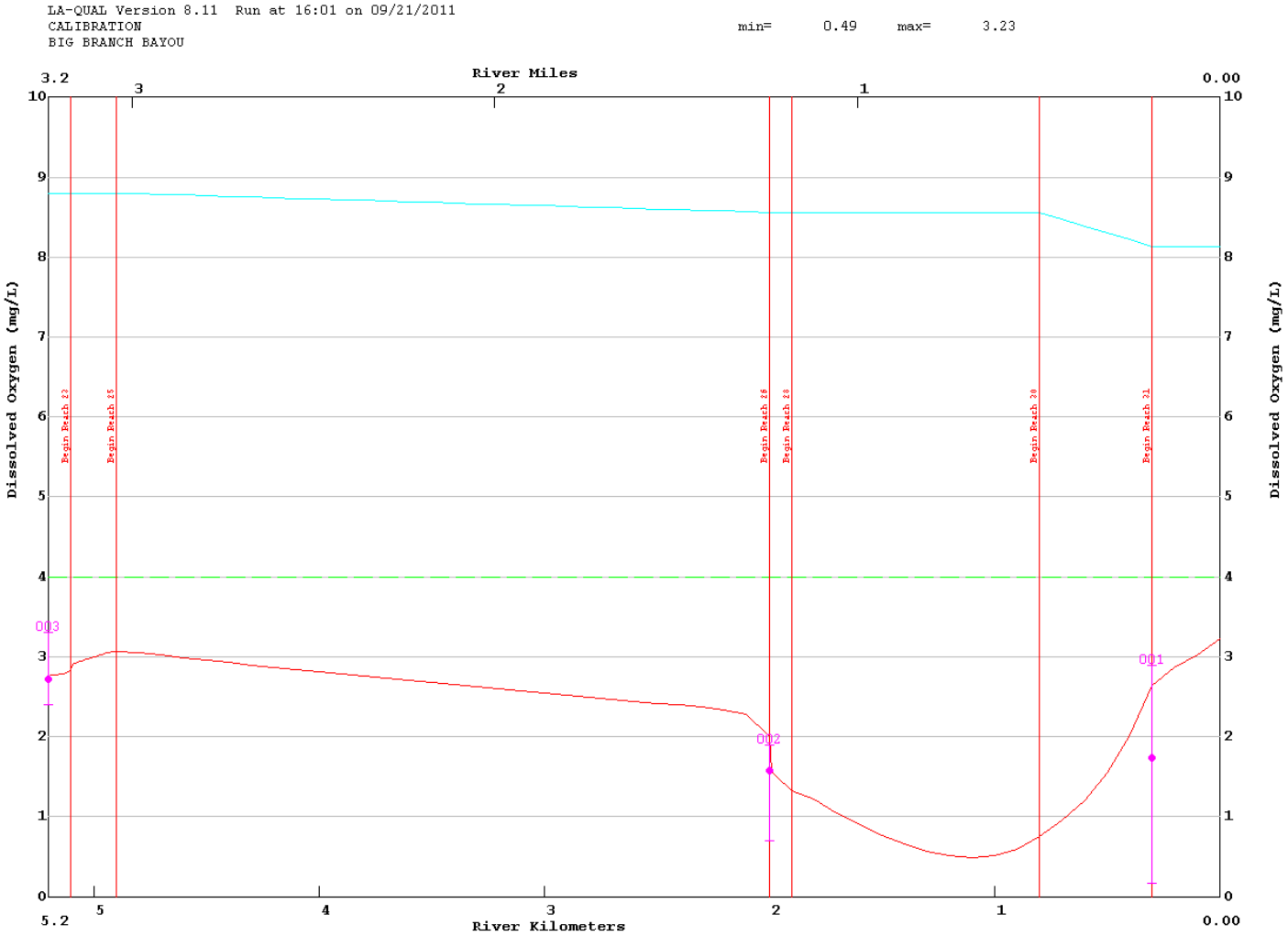

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BAYOU LACOMBE
min= 0.17 max= 3.60
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Depth (m)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Depth (ft)
16
14
12
10
8
6
4
2
0
31.0
30
25
20
15
10
5
0.00
River Kilometers
001
002
003
004
005
006
007
008
009

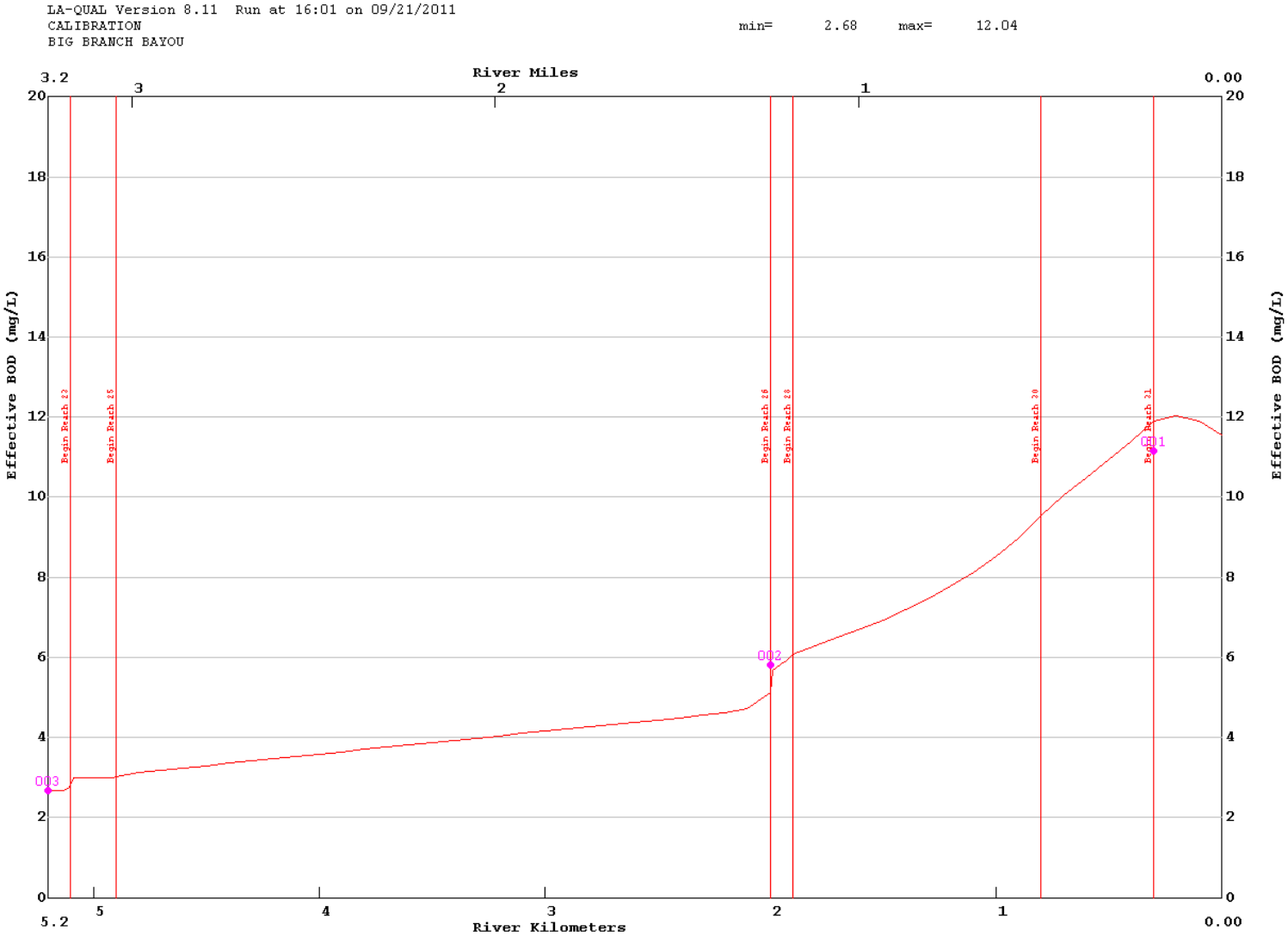

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BAYOU LACOMBE
min= 5.79 max= 99.36
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Width (m)
Width (ft)
River Kilometers
31.0
30
25
20
15
10
5
0.00
001
002
003
004
005
006
007
008
009

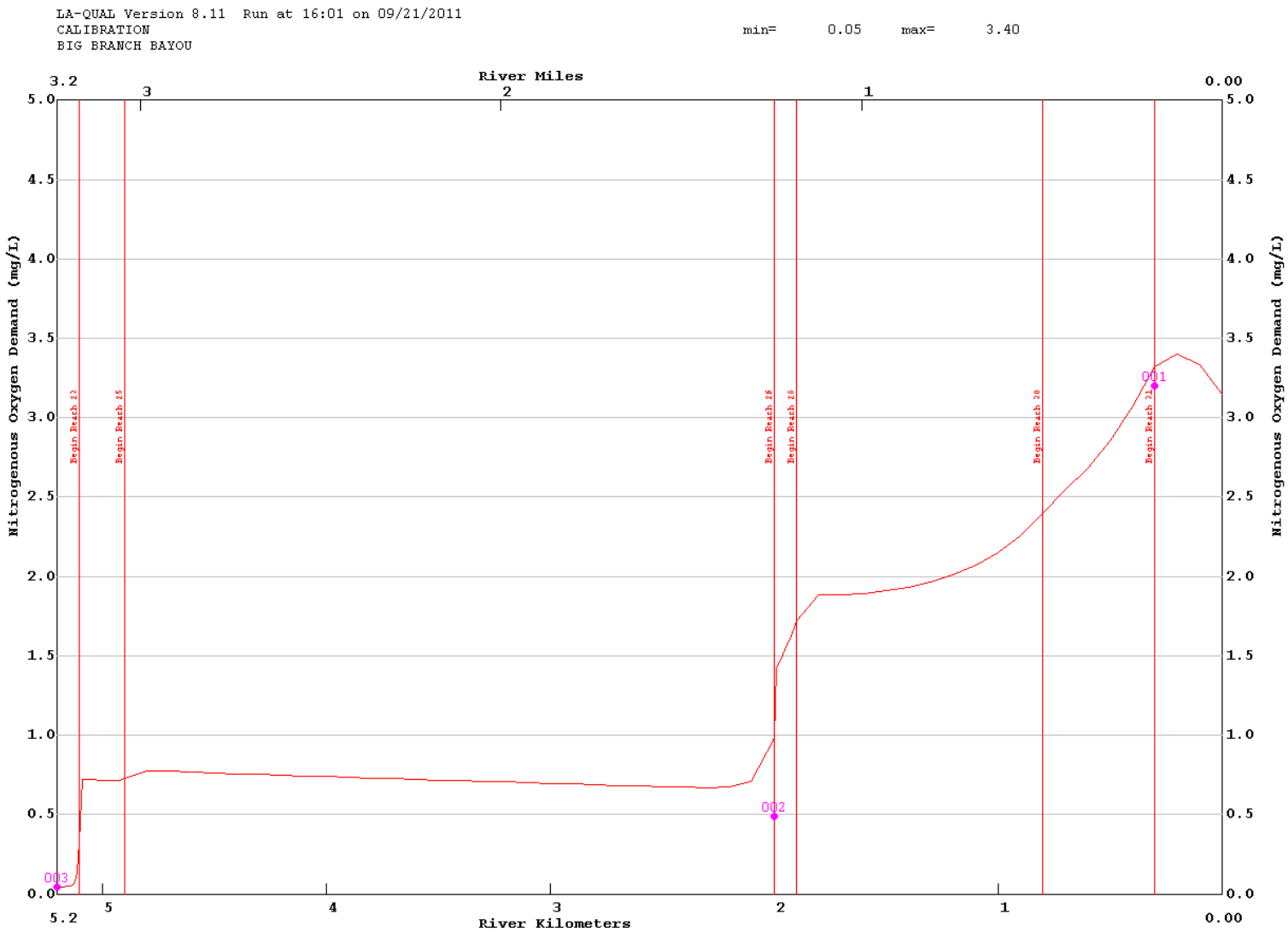

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BAYOU LACOMBE
min= 5.60 max= 4016.78
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
CHLORIDE (mg/L)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
001
002
003
004
005
006
007
008
009
31.0
30
25
20
15
10
5
0.00
River Kilometers

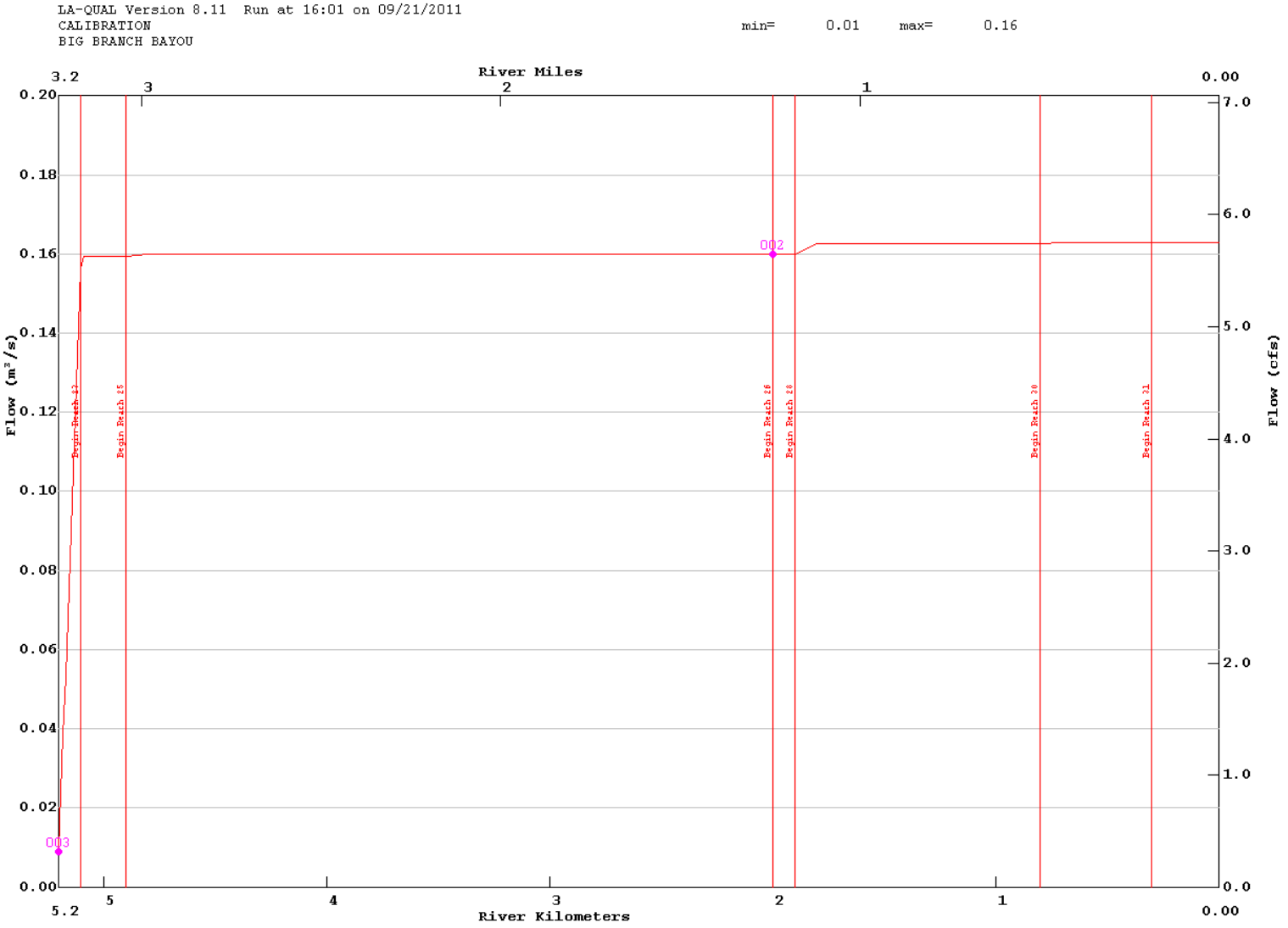

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BAYOU LACOMBE
min= 51.60 max= 11889.63
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
CONDUCTIVITY (uS/cm)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
001
002
003
004
005
006
007
008
009
31.0
30
25
20
15
10
5
0.00
River Kilometers

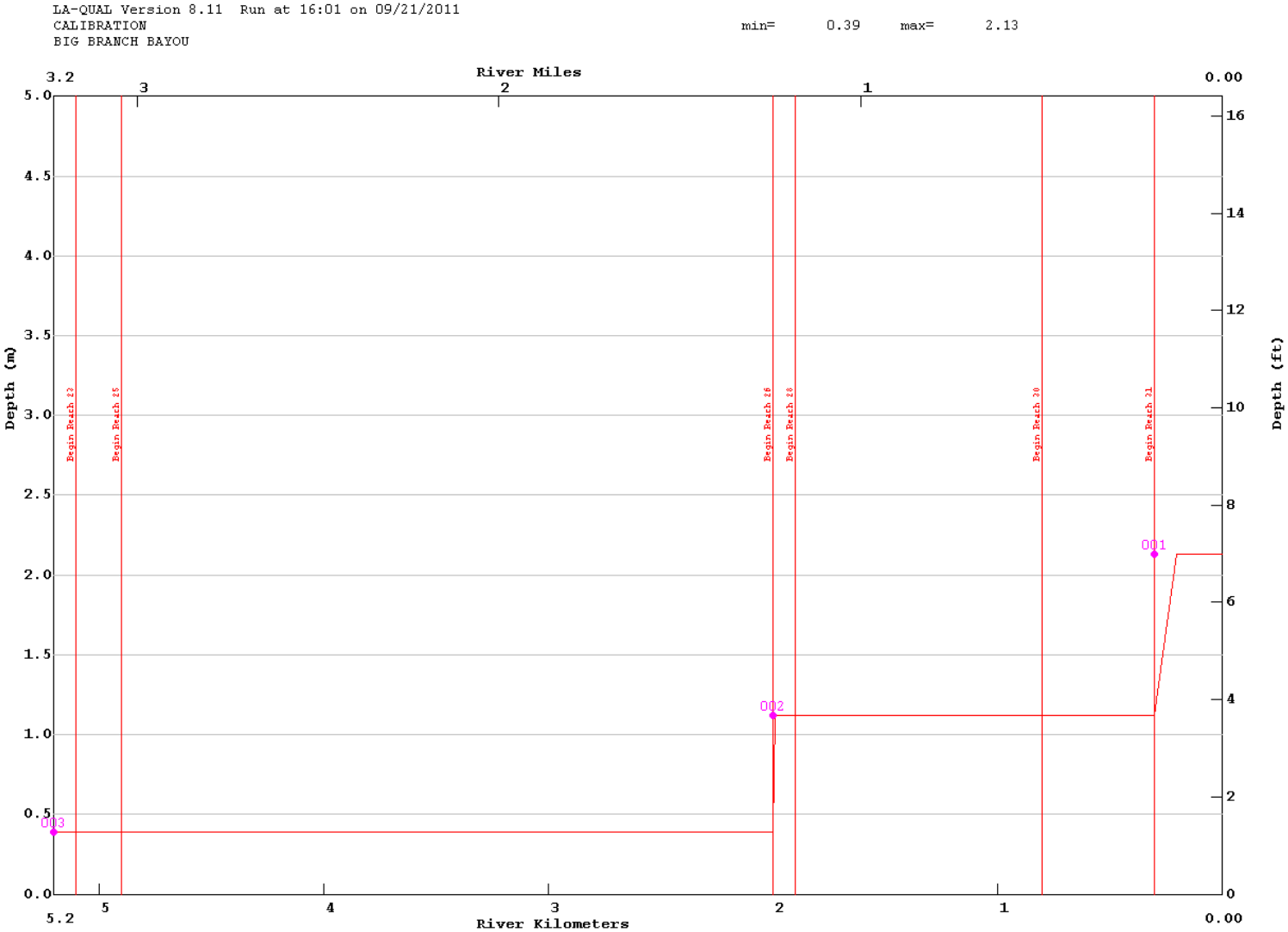
BIG BRANCH

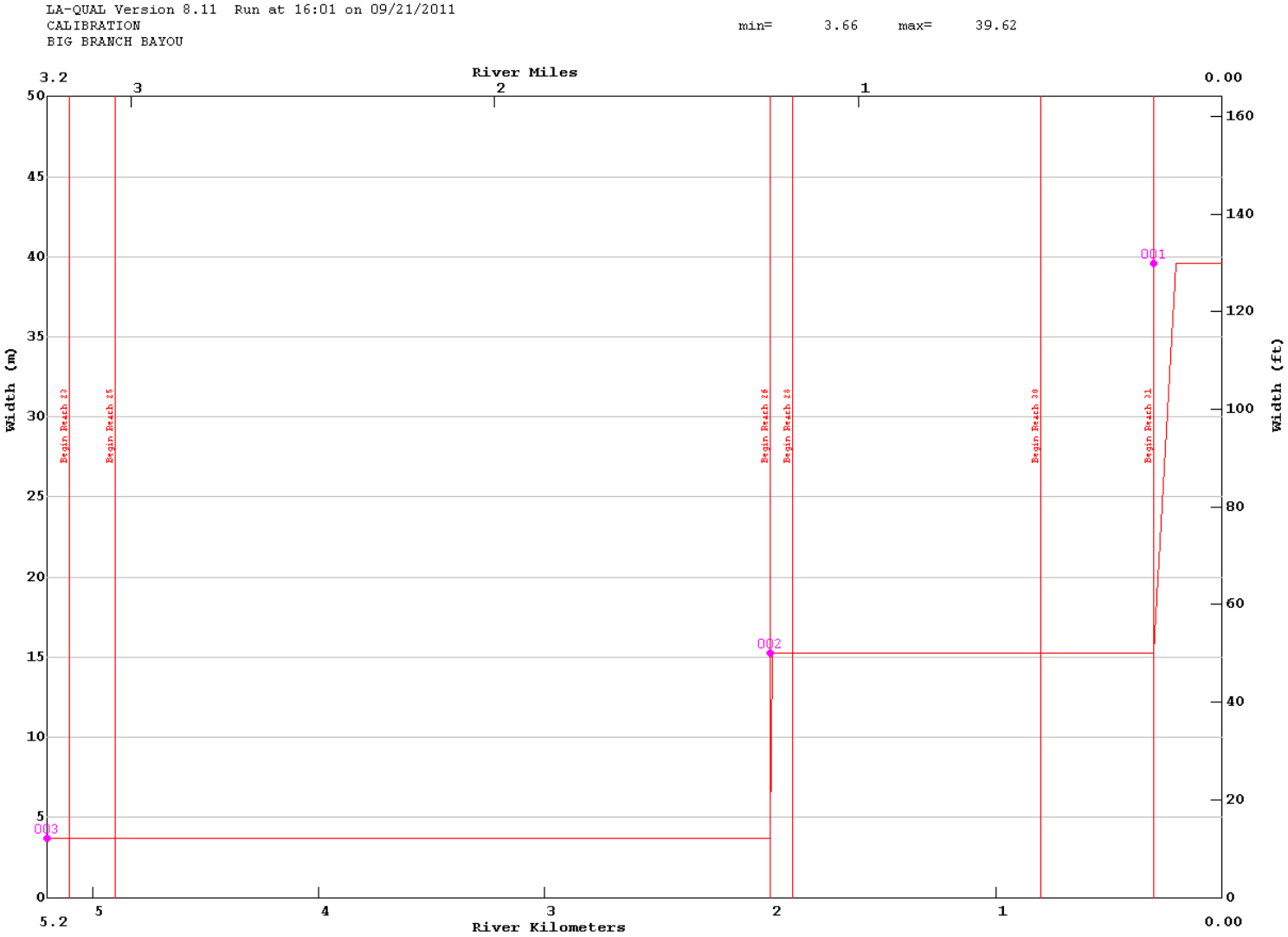

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BIG BRANCH BAYOU
min= 0.49 max= 3.23
River Miles
3.2
3
2
1
0.00
Dissolved Oxygen (mg/L)
Begin Reach 22
Begin Reach 25
Begin Reach 26
Begin Reach 28
Begin Reach 30
Begin Reach 31
003
002
001
5.2
5
4
3
2
1
0.00
River Kilometers

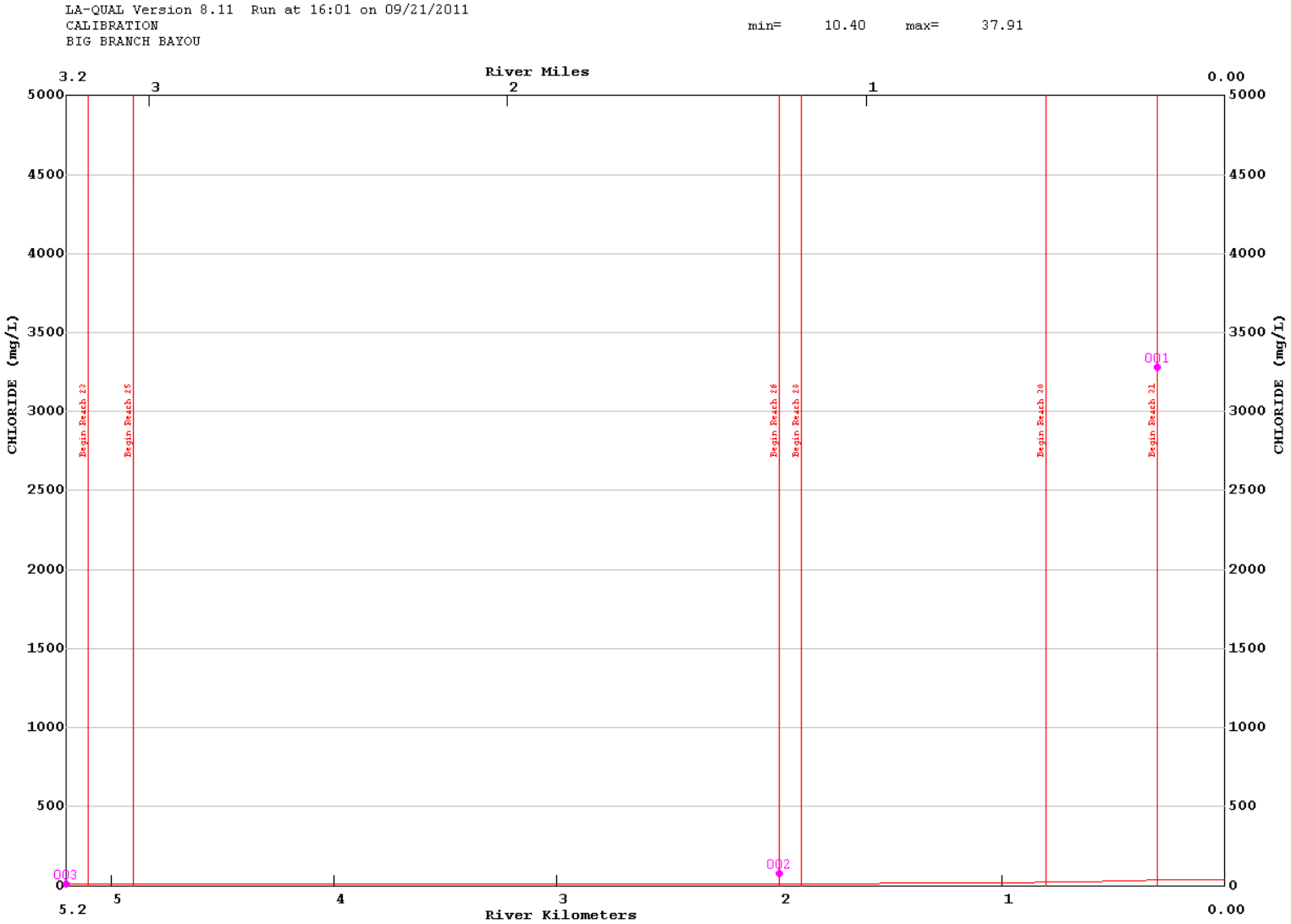

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BIG BRANCH BAYOU
min= 2.68 max= 12.04
River Miles
3.2
3
2
1
0.00
Effective BOD (mg/L)
Begin Reach 22
Begin Reach 25
Begin Reach 26
Begin Reach 28
Begin Reach 30
Begin Reach 31
001
002
003
River Kilometers
5.2
5
4
3
2
1
0.00

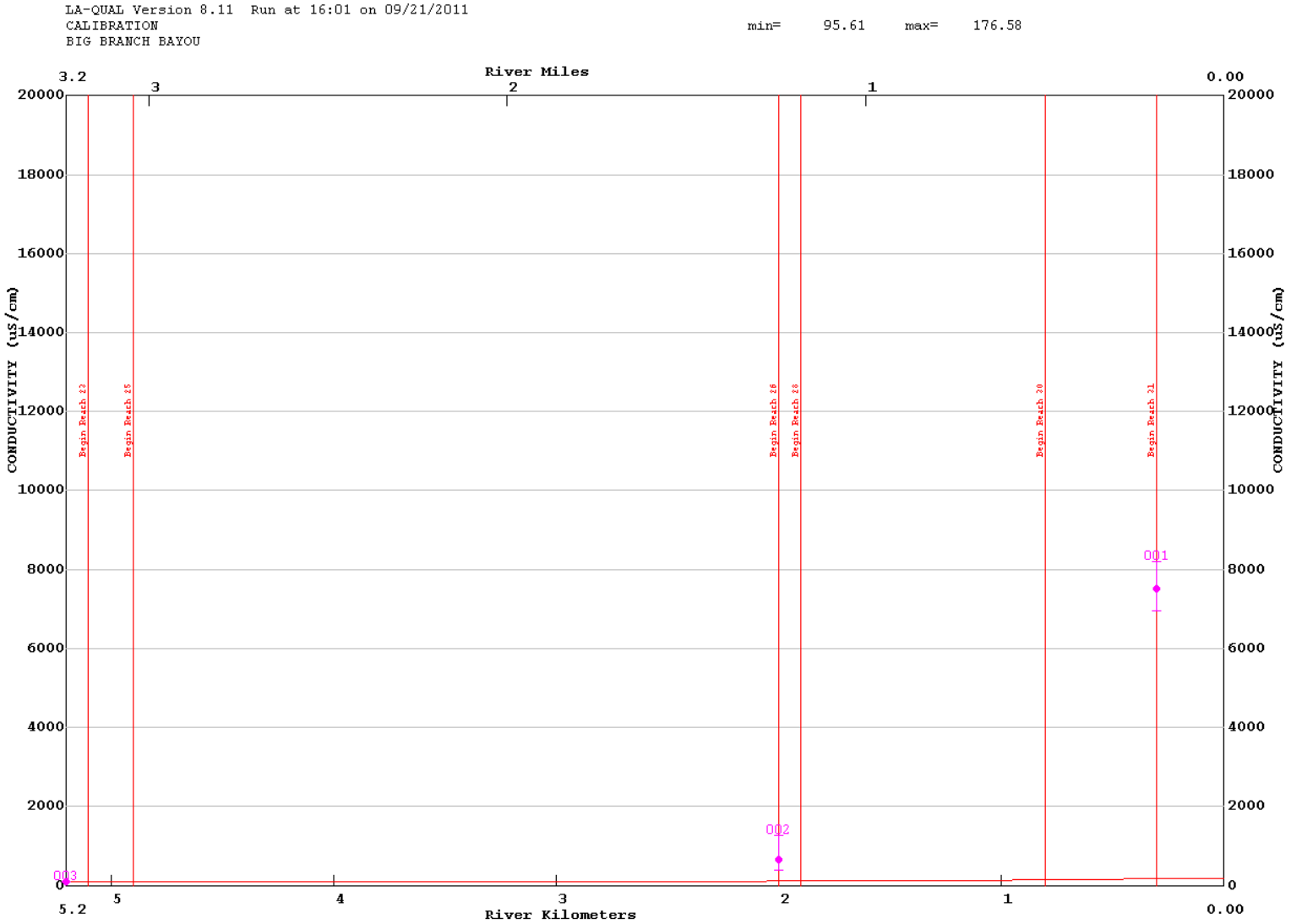

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BIG BRANCH BAYOU
min= 0.05 max= 3.40
River Miles
3.2
3
2
1
0.00
Nitrogenous Oxygen Demand (mg/L)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Begin Reach 22
Begin Reach 25
Begin Reach 26
Begin Reach 28
Begin Reach 30
Begin Reach 32
001
002
003
5.2
5
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BIG BRANCH BAYOU
min= 0.01 max= 0.16
River Miles
3.2
3
2
1
0.00
River Kilometers
5.2
5
4
3
2
1
0.00
Flow (m³/s)
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
Flow (cfs)
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
002
003
Begin Reach 42
Begin Reach 25
Begin Reach 26
Begin Reach 28
Begin Reach 20
Begin Reach 21

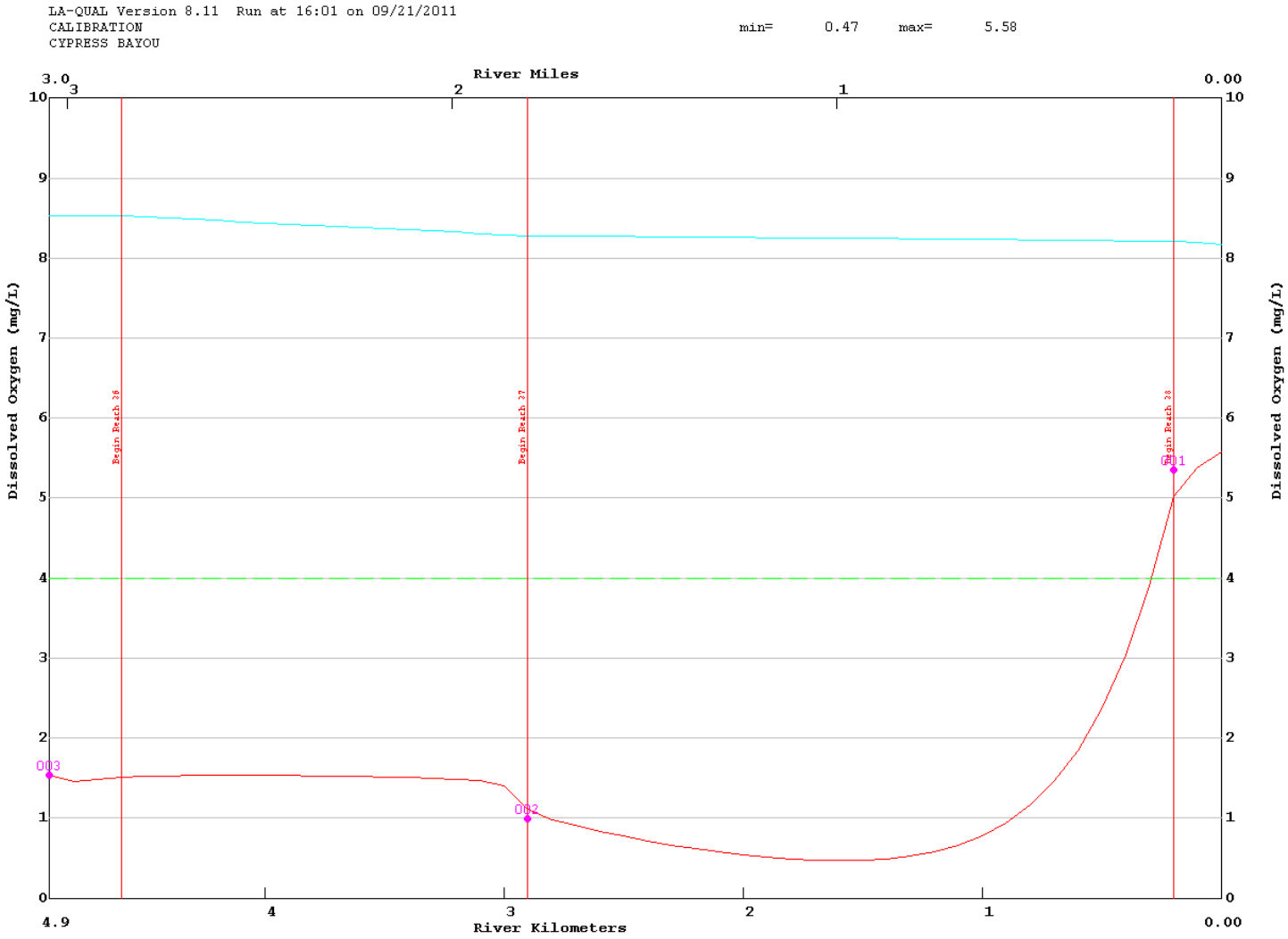

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BIG BRANCH BAYOU
min= 0.39 max= 2.13
River Miles
3.2
3
2
1
0.00
Depth (m)
Depth (ft)
Begin Reach 22
Begin Reach 25
Begin Reach 26
Begin Reach 28
Begin Reach 30
Begin Reach 31
001
002
003
River Kilometers
5.2
5
4
3
2
1
0.00

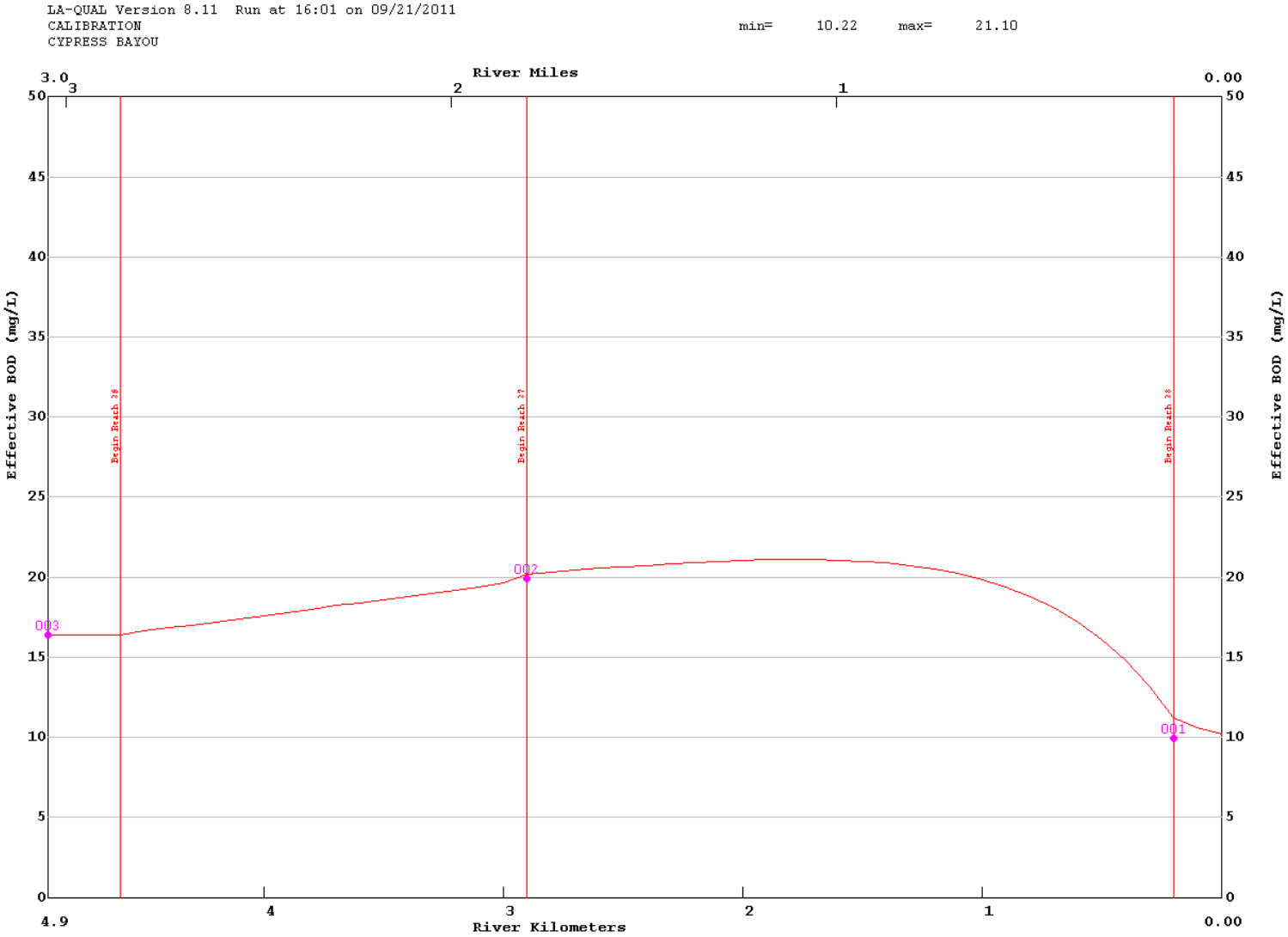

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BIG BRANCH BAYOU
min= 3.66 max= 39.62
River Miles
3.2
3
2
1
0.00
Width (m)
Width (ft)
Begin Reach 22
Begin Reach 25
Begin Reach 25
Begin Reach 26
Begin Reach 20
Begin Reach 21
001
002
003
5.2
5
4
3
2
1
0.00
River Kilometers

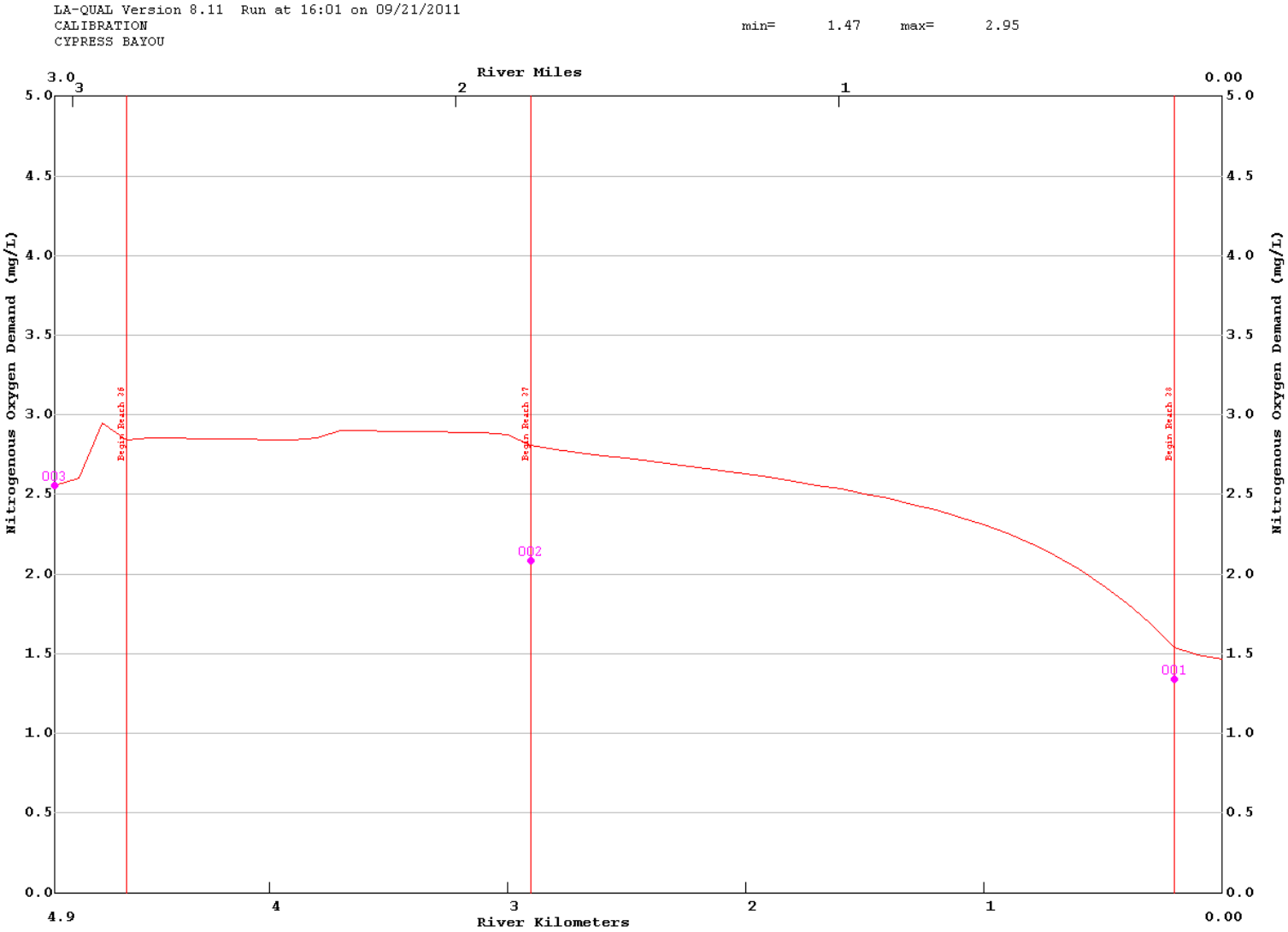

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BIG BRANCH BAYOU
min= 10.40 max= 37.91
River Miles
3.2
3
2
1
0.00
CHLORIDE (mg/L)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
Begin Reach 22
Begin Reach 25
Begin Reach 26
Begin Reach 28
Begin Reach 20
Begin Reach 21
001
002
003
5.2
5
4
3
2
1
0.00
River Kilometers

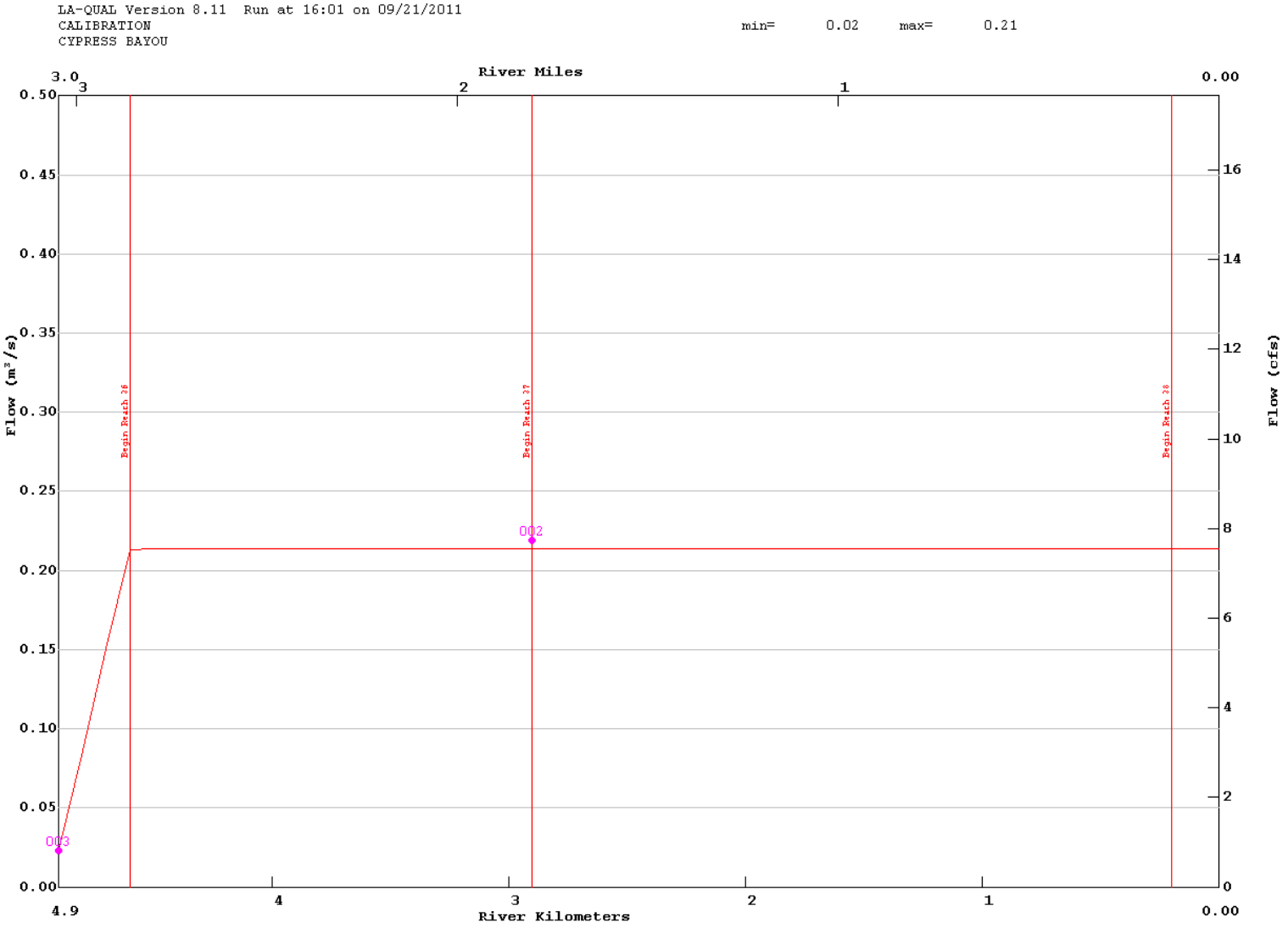

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
BIG BRANCH BAYOU
min= 95.61 max= 176.58
River Miles
3.2
3
2
1
0.00
CONDUCTIVITY (uS/cm)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Begin Reach 22
Begin Reach 25
Begin Reach 26
Begin Reach 28
Begin Reach 30
Begin Reach 31
001
002
003
5.2
5
4
3
2
1
0.00
River Kilometers

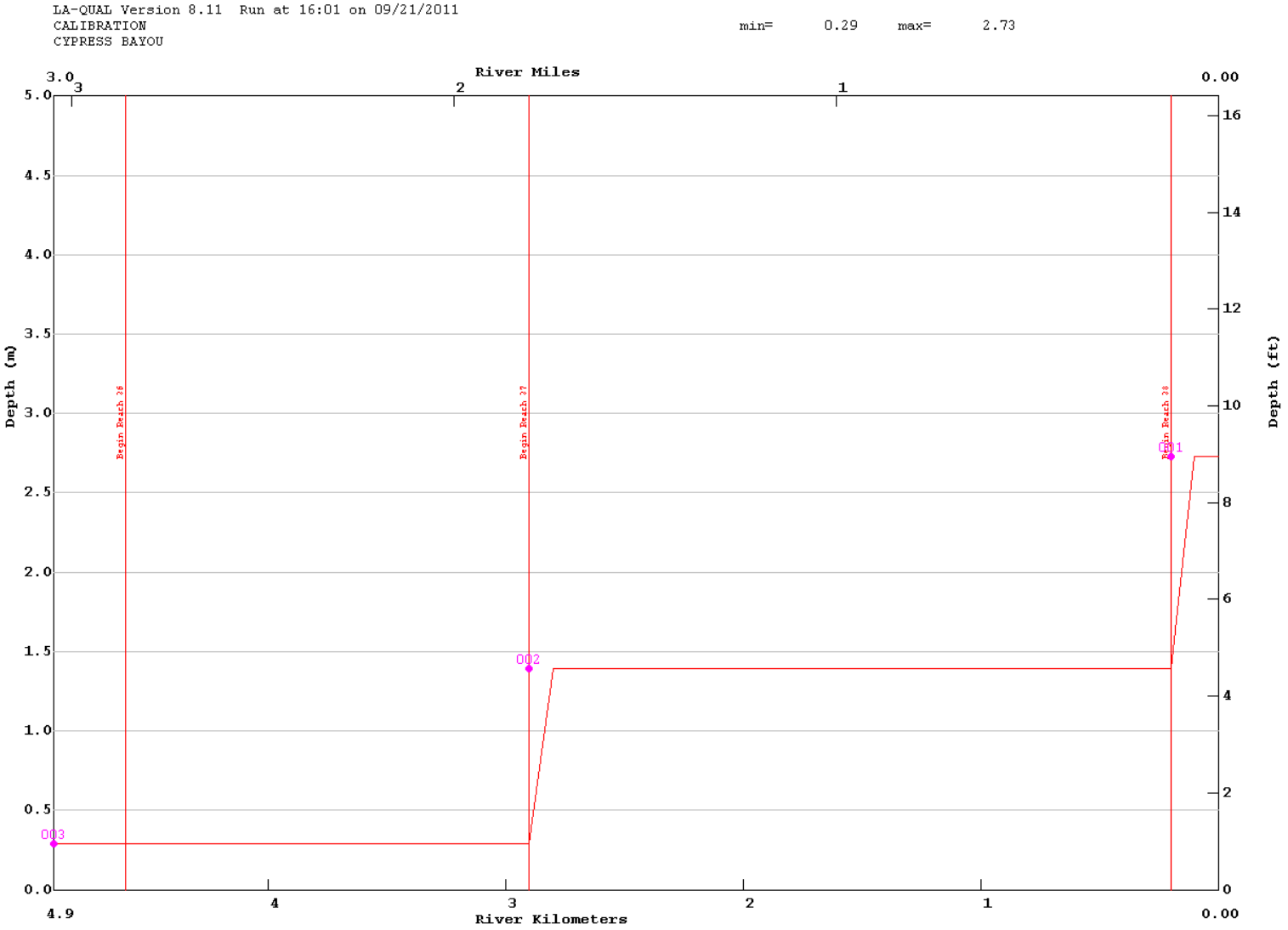
CYPRESS BAYOU

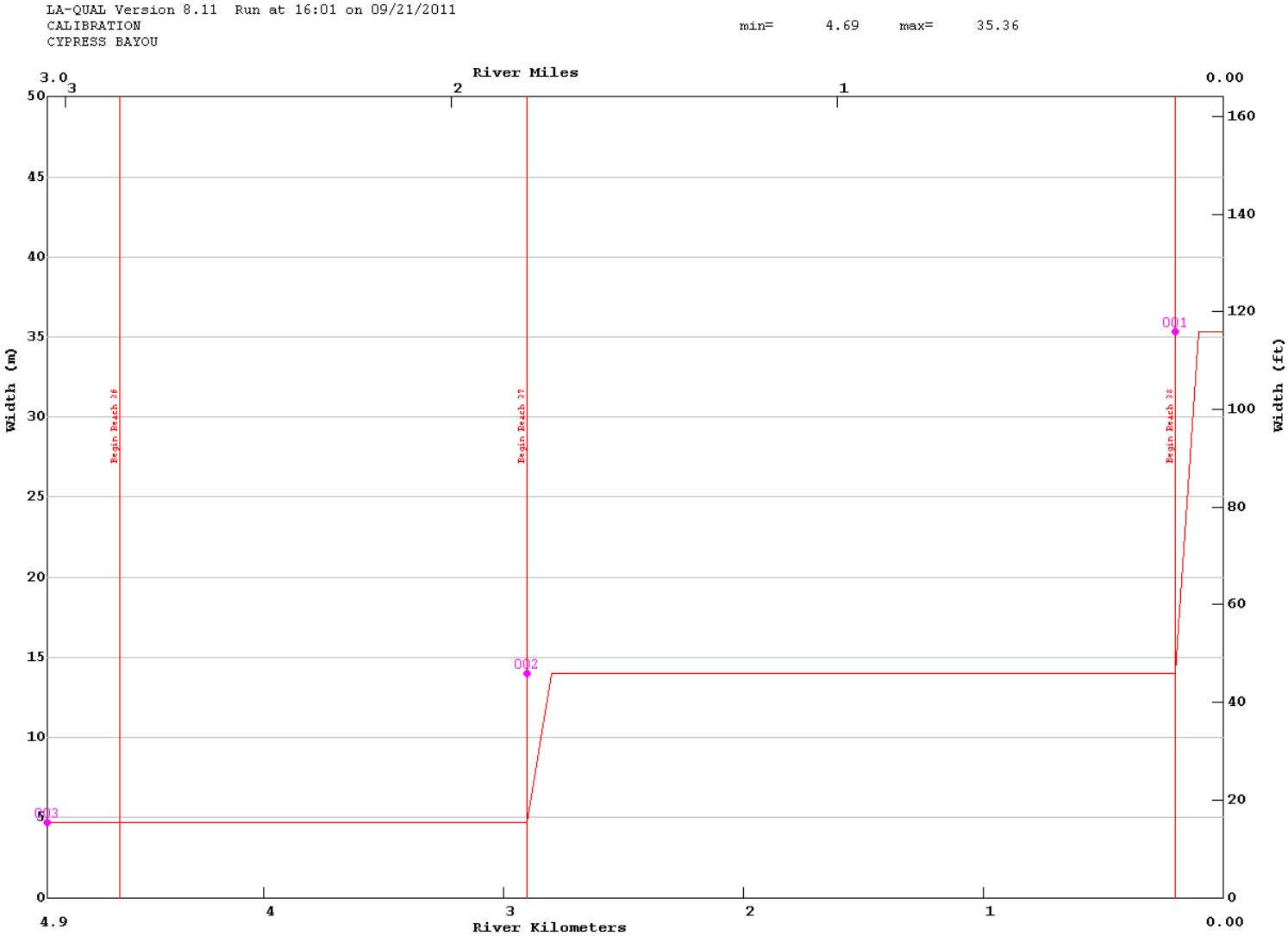


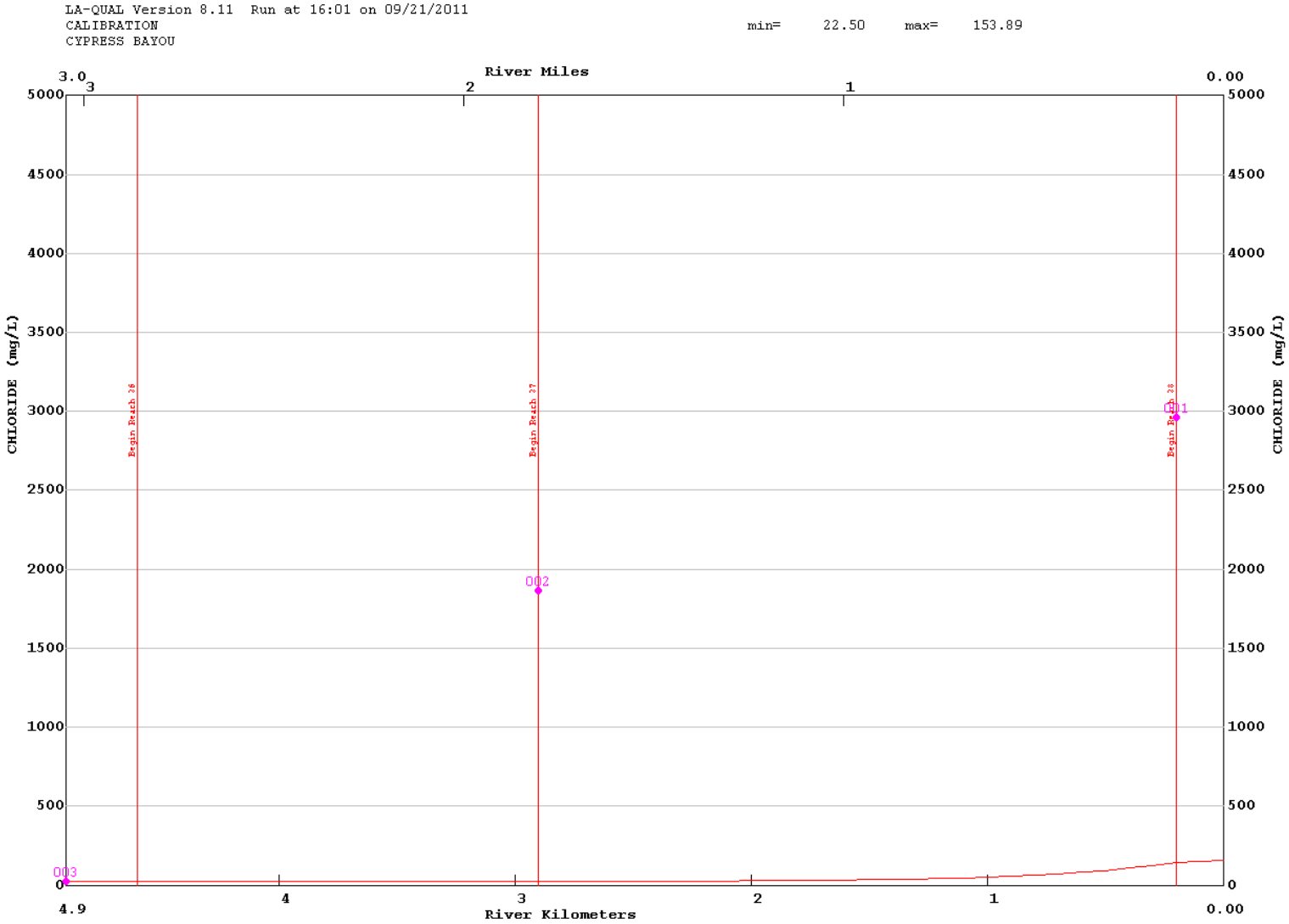

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
CYPRESS BAYOU
min= 10.22 max= 21.10
River Miles
3.0
3
2
1
0.00
Effective BOD (mg/L)
50
45
40
35
30
25
20
15
10
5
0
Begin Reach 26
Begin Reach 27
Begin Reach 28
Q003
Q002
Q001
4.9
4
3
2
1
0.00
River Kilometers

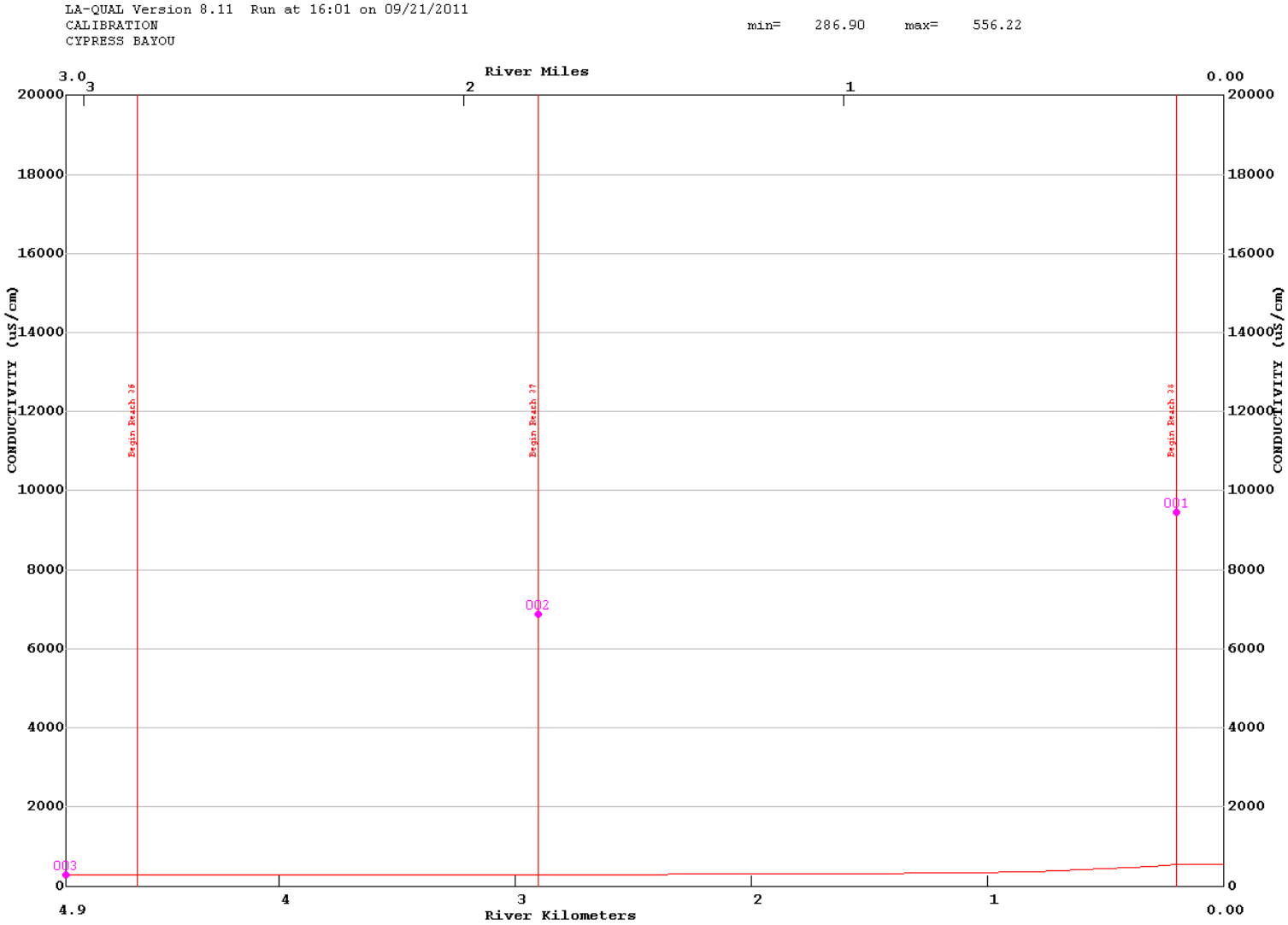

LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
CYPRESS BAYOU
min= 1.47 max= 2.95
River Miles
3.0
3
2
1
0.00
Nitrogenous Oxygen Demand (mg/L)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Begin Reach 26
Begin Reach 27
Begin Reach 28
003
002
001
4.9
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
CYPRESS BAYOU
min= 0.02 max= 0.21
River Miles
3.0
3
2
1
0.00
Flow (m³/s)
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Flow (cfs)
16
14
12
10
8
6
4
2
0
Begin Reach 26
Begin Reach 27
Begin Reach 28
002
003
4.9
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
CYPRESS BAYOU
min= 0.29 max= 2.73
River Miles
3.0
3
2
1
0.00
Depth (m)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Depth (ft)
16
14
12
10
8
6
4
2
0
Begin Reach 26
Begin Reach 27
Begin Reach 28
003
002
001
4.9
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
CYPRESS BAYOU
min= 4.69 max= 35.36
River Miles
3.0
3
2
1
0.00
Width (m)
Width (ft)
Begin Reach 26
Begin Reach 27
Begin Reach 28
001
002
003
River Kilometers
4.9
4
3
2
1
0.00


LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
CYPRESS BAYOU
min= 22.50 max= 153.89
River Miles
3.0
3
2
1
0.00
CHLORIDE (mg/L)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
Begin Reach 26
Begin Reach 27
Begin Reach 28
001
002
003
4.9
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 16:01 on 09/21/2011
CALIBRATION
CYPRESS BAYOU
min= 286.90 max= 556.22
River Miles
3.0
3
2
1
0.00
CONDUCTIVITY (uS/cm)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Begin Reach 38
Begin Reach 37
Begin Reach 33
001
002
003
4.9
4
3
2
1
0.00
River Kilometers

BAYOU LACOMBE 040901 AND 040902 Calibration Input File

```
TITLE01      BAYOU LACOMBE WATERSHED MODEL
TITLE02      CALIBRATION
CONTROL  YES METRIC UNITS
ENDATA01
MODOPT    NO TEMPERATURE
MODOPT   YES SALINITY
MODOPT   YES CONSERVATIVE MATERIAL  I = CHLORIDE                 IN  mg/L     chloride
MODOPT   YES CONSERVATIVE MATERIAL II = CONDUCTIVITY             IN  uS/cm    conduct
MODOPT   YES DISSOLVED OXYGEN
MODOPT   YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT    NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT   YES NBOD OXYGEN DEMAND
MODOPT    NO PHOSPHORUS
MODOPT    NO CHLOROPHYLL A
MODOPT    NO MACROPHYTES
MODOPT    NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  DISPERSION EQUATION               =     1
PROGRAM  OCEAN EXCHANGE RATIO              =     1.0
PROGRAM  TIDE HEIGHT                       =     0.152
PROGRAM  TIDAL PERIOD                      =     25.0
PROGRAM  PERIOD OF TIDAL RISE              =     12.5
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =      2.0
PROGRAM  SETTLING RATE UNITS               =      2.0
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------------------*----------
!          R#  ID   REACH NAME                          RKM       RKM    LENGTH
```

```
REACH ID    1  BL BL01 TO Hwy 36 Ditch BL              31.0       30.9     0.01
REACH ID    2  D1 Hwy 36 Ditch BL                       4.2        0.0     0.1
REACH ID    3  BL Hwy 36 Ditch BL to BL02              30.9       25.2     0.1
REACH ID    4  BL BL02 to BL03                         25.2       20.3     0.1
REACH ID    5  BL BL03 to SNG Ditch                    20.3       19.4     0.1
REACH ID    6  D2 SNG Ditch                             2.1        0.0     0.1
REACH ID    7  BL SNG Ditch to Hwy434/I-12 Dich BL     19.4       19.1     0.1
REACH ID    8  D3 Hwy 434/I-12 Ditch BL                 3.0        0.0     0.1
REACH ID    9  BL Hwy434/I-12DitchBL to BL04           19.1       18.9     0.1
REACH ID   10  BL BL04 to Keller Barn Ditch            18.9       17.3     0.1
REACH ID   11  D4 Keller Barn Ditch                     0.9        0.0     0.1
REACH ID   12  BL KellerBarnDitchToBeauVillageDich     17.3       14.6     0.1
REACH ID   13  D5 Beau Village Ditch                    3.0        0.0     0.1
REACH ID   14  BL Beau Village Ditch to BL05           14.6       13.2     0.1
REACH ID   15  BL BL05 to Hwy 190 Ditch BL             13.2       11.1     0.1
REACH ID   16  D6 Hwy 190 Ditch BL                      2.2        0.0     0.1
REACH ID   17  BL Hwy190DitchBLtoHwy434/190DitchBL     11.1       11.0     0.01
REACH ID   18  D7 Hwy 434/190 Ditch BL                  2.2        0.0     0.1
REACH ID   19  BL Hwy 434/190 Ditch BL to BL06         11.0       10.9     0.01
REACH ID   20  BL BL06 to confluence with BBB          10.9        8.8     0.1
REACH ID   21  BB BB03 to Hwy 434/I-12 ditch BBB        5.2        5.1     0.01
REACH ID   22  D8 Hwy 434/I-12 Ditch BBB                6.5        0.0     0.1
REACH ID   23  BB Hwy434/I-12DitchBBBtoFolgerDitch      5.1        4.9     0.01
REACH ID   24  D9 Folger Ditch                          0.4        0.0     0.1
REACH ID   25  BB Folger Ditch to BB02                  4.9        2.0     0.1
REACH ID   26  BB BB02 to Berry Todd Rd Ditch           2.0        1.9     0.01
REACH ID   27  DA Berry Todd Rd Ditch                   2.0        0.0     0.1
REACH ID   28  BB BerryToddRdDitchtoHwy190DitchBBB      1.9        0.8     0.1
REACH ID   29  DB Hwy 190 Ditch BBB                     1.3        0.0     0.1
REACH ID   30  BB Hwy 190 Ditch BBB to BB01             0.8        0.3     0.1
REACH ID   31  BB BB01toConfluenceWithBayouLacombe      0.3        0.0     0.1
REACH ID   32  BL Big Branch Bayou to BL07              8.8        8.7     0.01
REACH ID   33  BL BL07to confluence w/CypressBayou      8.7        6.3     0.1
REACH ID   34  CB CB03 to Hwy 190 ditch CB              4.9        4.6     0.1
REACH ID   35  DC Hwy 190 Ditch CB                      1.6        0.0     0.1
REACH ID   36  CB Hwy 190 Ditch CB to CB02              4.6        2.9     0.1
REACH ID   37  CB CB02 to CB01                          2.9        0.2     0.1
REACH ID   38  CB CB01to confluence w/BayouLacombe      0.2        0.0     0.1
REACH ID   39  BL Cypress Bayou to BL08                 6.3        6.1     0.1
REACH ID   40  BL BL08 to BL09                          6.1        0.3     0.1
REACH ID   41  BL BL09 to Lake Pontchartrain            0.3        0.0     0.1
ENDATA08
```

```
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!              WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#  COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1    0.0     0.0   5.79    0.0    0.0  0.40        0   0.02
HYDR-1      2    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      3    0.0     0.0   5.79    0.0    0.0  0.40        0   0.02
HYDR-1      4    0.0     0.0   6.10    0.0    0.0  0.18        0   0.02
HYDR-1      5    0.0     0.0   7.16    0.0    0.0  0.17        0   0.02
HYDR-1      6    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      7    0.0     0.0   7.16    0.0    0.0  0.17        0   0.02
HYDR-1      8    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      9    0.0     0.0   7.16    0.0    0.0  0.17        0   0.02
HYDR-1     10    0.0     0.0   9.30    0.0    0.0  0.42        0   0.02
HYDR-1     11    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     12    0.0     0.0   9.30    0.0    0.0  0.42        0   0.02
HYDR-1     13    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     14    0.0     0.0   9.30    0.0    0.0  0.42        0   0.02
HYDR-1     15    0.0     0.0  25.30    0.0    0.0  3.60        0   0.02
HYDR-1     16    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     17    0.0     0.0  25.30    0.0    0.0  3.60        0   0.02
HYDR-1     18    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     19    0.0     0.0  25.30    0.0    0.0  3.60        0   0.02
HYDR-1     20    0.0     0.0  44.20    0.0    0.0  3.15        0   0.02
HYDR-1     21    0.0     0.0   3.66    0.0    0.0  0.39        0   0.02
HYDR-1     22    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     23    0.0     0.0   3.66    0.0    0.0  0.39        0   0.02
HYDR-1     24    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     25    0.0     0.0   3.66    0.0    0.0  0.39        0   0.02
HYDR-1     26    0.0     0.0  15.24    0.0    0.0  1.12        0   0.02
HYDR-1     27    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     28    0.0     0.0  15.24    0.0    0.0  1.12        0   0.02
HYDR-1     29    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     30    0.0     0.0  15.24    0.0    0.0  1.12        0   0.02
HYDR-1     31    0.0     0.0  39.62    0.0    0.0  2.13        0   0.02
HYDR-1     32    0.0     0.0  82.30    0.0    0.0  2.56        0   0.02
HYDR-1     33    0.0     0.0  82.30    0.0    0.0  2.56        0   0.02
HYDR-1     34    0.0     0.0   4.69    0.0    0.0  0.29        0   0.02
HYDR-1     35    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
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HYDR-1      36     0.0     0.0   4.69    0.0    0.0  0.29        0   0.02
HYDR-1      37     0.0     0.0  14.02    0.0    0.0  1.39        0   0.02
HYDR-1      38     0.0     0.0  35.36    0.0    0.0  2.73        0   0.02
HYDR-1      39     0.0     0.0  74.68    0.0    0.0  3.03        0   0.02
HYDR-1      40     0.0     0.0  74.68    0.0    0.0  3.03        0   0.02
HYDR-1      41     0.0     0.0  99.36    0.0    0.0  1.80        0   0.02
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!          R#  RANGE    a          b         c         d
!         ***  ----------*********-----------
HYDR-2      1  0.00 0.5        0.000     0.0       0.0
HYDR-2      2  0.00   0        0.000     0.0       0.0
HYDR-2      3  0.00 0.5        0.000     0.0       0.0
HYDR-2      4  0.00 0.5        0.000     0.0       0.0
HYDR-2      5  0.00 0.5        0.000     0.0       0.0
HYDR-2      6  0.00    0       0.000     0.0       0.0
HYDR-2      7  0.00 0.5        0.000     0.0       0.0
HYDR-2      8  0.00   0        0.000     0.0       0.0
HYDR-2      9  0.00 0.5        0.000     0.0       0.0
HYDR-2     10  0.25 0.5        0.000     0.0       0.0
HYDR-2     11  0.00    0       0.000     0.0       0.0
HYDR-2     12  0.25 0.5        0.000     0.0       0.0
HYDR-2     13  0.00   0        0.000     0.0       0.0
HYDR-2     14  0.50 0.5        0.000     0.0       0.0
HYDR-2     15  0.75 0.5        0.000     0.0       0.0
HYDR-2     16  0.00   0        0.000     0.0       0.0
HYDR-2     17  0.75 0.5        0.000     0.0       0.0
HYDR-2     18  0.00    0       0.000     0.0       0.0
HYDR-2     19  0.75 0.5        0.000     0.0       0.0
HYDR-2     20  1.00 2          0.000     0.0       0.0
HYDR-2     21  0.25 0.5        0.000     0.0       0.0
HYDR-2     22  0.00    0       0.000     0.0       0.0
HYDR-2     23  0.50 1.0        0.000     0.0       0.0
HYDR-2     24  0.00    0       0.000     0.0       0.0
HYDR-2     25  0.75 2.0        0.000     0.0       0.0
HYDR-2     26  1.00 2.5        0.000     0.0       0.0
HYDR-2     27  0.00    0       0.000     0.0       0.0
HYDR-2     28  1.00 3.5        0.000     0.0       0.0
HYDR-2     29  0.00    0       0.000     0.0       0.0
HYDR-2     30  1.00 5.5        0.000     0.0       0.0
```

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HYDR-2     31  1.00 7.5        0.000     0.0       0.0
HYDR-2     32  1.00 3          0.000     0.0       0.0
HYDR-2     33  1.00 4          0.000     0.0       0.0
HYDR-2     34  0.50 1          0.000     0.0       0.0
HYDR-2     35  0.00    0       0.000     0.0       0.0
HYDR-2     36  0.75 3.5        0.000     0.0       0.0
HYDR-2     37  1.00 5.5        0.000     0.0       0.0
HYDR-2     38  1.00 7.5        0.000     0.0       0.0
HYDR-2     39  1.00 5          0.000     0.0       0.0
HYDR-2     40  1.00 6          0.000     0.0       0.0
HYDR-2     41  1.00 7.5        0.000     0.0       0.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1     20.85    0.01   5.23    0.00    0.000   0.00    0.0     0.0
INITIAL     2     20.85    0.01   5.23    0.000   0.000   0.00    0.0     0.0
INITIAL     3     20.85    0.01   5.23    0.000   0.000   0.00    0.0     0.0
INITIAL     4     21.28    0.00   7.76    0.000   0.000   0.00    0.0     0.0
INITIAL     5     22.03    0.00   8.27    0.000   0.000   0.00   0000     0.0
INITIAL     6     22.03    0.00   8.27    0.000   0.000   0.000  0000     0.0
INITIAL     7     22.03    0.00   8.27    0.000   0.000   0.000   000     0.0
INITIAL     8     22.03    0.00   8.27    0.000   0.000   0.000  0000     0.0
INITIAL     9     22.03    0000   8.27    0.000   0.000   0.000  0000     0.0
INITIAL    10     22.64    0.02   7.86    0.000   0.000   0.000  0000     0.0
INITIAL    11     22.64    0.02   7.86    0.000   0.000   0.000  0000     0.0
INITIAL    12     22.64    0.02   7.86    0.000   0.000   0.000  0000     0.0
INITIAL    13     22.64    0.02   7.86    0.00    0.000   0.00    0.0     0.0
INITIAL    14     22.64    0.02   7.86    0.000   0.000   0.00    0.0     0.0
INITIAL    15     23.12    0.36   3.92    0.000   0.000   0.00   10.6     0.0
INITIAL    16     23.12    0.36   3.92    0.000   0.000   0.00    0.0     0.0
INITIAL    17     23.12    0.36   3.92    0.000   0.000   0.00   10.6     0.0
INITIAL    18     23.12    0.36   3.92    0.000   0.000   0.000  0000     0.0
INITIAL    19     23.12    0.36   3.92    0.000   0.000   0.000  10.6     0.0
INITIAL    20     25.47    4.78   2.42    0.000   0.000   0.000  11.3     0.0
INITIAL    21     21.66    0000   2.72    0.000   0.000   0.000  2.60     0.0
INITIAL    22     21.66    0.00   2.72    0.000   0.000   0.000  0000     0.0
INITIAL    23     21.66    0000   2.72    0.000   0.000   0.000  2.60     0.0
INITIAL    24     21.66    0.00   2.72    0.000   0.000   0.000  0000     0.0
INITIAL    25     21.66    0.00   2.72    0.000   0.000   0.000  2.60     0.0
```

```
INITIAL    26     23.10    0.35   1.58    0.000   0.000   0.000  14.4     0.0
INITIAL    27     23.10    0.35   1.58    0.000   0.000   0.000  0000     0.0
INITIAL    28     23.10    0.35   1.58    0.000   0.000   0.000  14.4     0.0
INITIAL    29     23.10    0.35   1.58    0.000   0.000   0.000  0000     0.0
INITIAL    30     23.10    0.35   1.58    0.00    0.000   0.00   14.4     0.0
INITIAL    31     25.83    4.19   1.73    0.000   0.000   0.00   26.2     0.0
INITIAL    32     25.85    4.08   4.03    0.000   0.000   0.00   20.2     0.0
INITIAL    33     25.85    4.08   4.03    0.000   0.000   0.00   20.2     0.0
INITIAL    34     23.25    0.14   1.53    0.000   0.000   0.00   24.6     0.0
INITIAL    35     23.25    0.14   1.53    0.000   0.000   0.000  0000     0.0
INITIAL    36     23.25    0.14   1.53    0.000   0.000   0.000  24.6     0.0
INITIAL    37     24.84    3.82   0.99    0.000   0.000   0.000  22.6     0.0
INITIAL    38     25.27    5.34   5.35    0.000   0.000   0.000  20.6     0.0
INITIAL    39     25.49    5.26   5.60    0.000   0.000   0.000  17.2     0.0
INITIAL    40     25.49    5.26   5.60    0.000   0.000   0.000  17.2     0.0
INITIAL    41     24.97    7.05   6.19    0.000   0.000   0.000  11.7     0.0
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9----
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234
!         ***  -----********** ******-------*******-------*******-------*******-------*******
!               REA                            BOD 1  BOD 1   BOD 1       BOD 2    BOD 2  BOD 2
!          R#   EQ   "a"                  SOD  DECAY  SETT    CONV        DECAY    SETT   CONV
COEF-1      1   11.0  0.00 0.0   0.0     0.00  .034  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      2   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      3   11.0  0.00 0.0   0.0     0.25  .034  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      4   11.0  0.00 0.0   0.0     0.25  .031  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      5   11.0  0.00 0.0   0.0     1.75  .038  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      6   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      7   11.0  0.00 0.0   0.0     1.75  .038  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      8   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      9   11.0  0.00 0.0   0.0     1.75  .038  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     10   11.0  0.00 0.0   0.0     4.50  .029  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     11   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     12   11.0  0.00 0.0   0.0     4.50  .029  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     13   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     14   11.0  0.00 0.0   0.0     4.50  .029  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     15    3.0  0.00 0.0   0.0     3.00  .045  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     16   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     17    3.0  0.00 0.0   0.0     3.00  .045  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     18   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     19    3.0  0.00 0.0   0.0     3.00  .045  0.05    0.0     0.00 .000    0.00    0.0
```

```
COEF-1      20    3.0  0.00 0.0   0.0     3.50  .041  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      21   11.0  0.00 0.0   0.0     2.00  .070  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      22   15.0  0.00 0.0   0.0     0.50  .08   0.05    0.0     0.00 .000    0.00    0.0
COEF-1      23   11.0  0.00 0.0   0.0     2.00  .070  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      24   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      25   11.0  0.00 0.0   0.0     6.00  .070  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      26    3.0  0.00 0.0   0.0     7.00  .053  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      27   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      28    3.0  0.00 0.0   0.0     7.00  .053  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      29   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      30    3.0  0.00 0.0   0.0     7.00  .053  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      31    3.0  0.00 0.0   0.0     7.00  .049  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      32    3.0  0.00 0.0   0.0     3.50  .048  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      33    3.0  0.00 0.0   0.0     1.00  .048  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      34   11.0  0.00 0.0   0.0     6.00  .069  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      35   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      36   11.0  0.00 0.0   0.0     6.00  .069  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      37    3.0  0.00 0.0   0.0     6.00  .052  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      38    3.0  0.00 0.0   0.0     0.00  .054  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      39    3.0  0.00 0.0   0.0     1.00  .051  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      40    3.0  0.00 0.0   0.0     1.50  .051  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      41    3.0  0.00 0.0   0.0     0.00  .063  0.05    0.0     0.00 .000    0.00    0.0
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.005    0.05
COEF-2      2  0.030    0.05
COEF-2      3  0.005    0.05
COEF-2      4  0.595    0.05
COEF-2      5  0.041    0.05
COEF-2      6  0.030    0.05
COEF-2      7  0.041    0.05
COEF-2      8  0.030    0.05
COEF-2      9  0.041    0.05
COEF-2     10  0.070    0.05
COEF-2     11  0.030    0.05
COEF-2     12  0.070    0.05
COEF-2     13  0.030    0.05
```

```
COEF-2      14  0.070    0.05
COEF-2      15  0.052    0.05
COEF-2      16  0.030    0.05
COEF-2      17  0.052    0.05
COEF-2      18  0.030    0.05
COEF-2      19  0.052    0.05
COEF-2      20  0.089    0.05
COEF-2      21  0.595    0.05
COEF-2      22  0.030    0.05
COEF-2      23  0.595    0.05
COEF-2      24  0.030    0.05
COEF-2      25  0.595    0.05
COEF-2      26  0.106    0.05
COEF-2      27  0.030    0.05
COEF-2      28  0.106    0.05
COEF-2      29  0.030    0.05
COEF-2      30  0.106    0.05
COEF-2      31  0.042    0.05
COEF-2      32  0.129    0.05
COEF-2      33  0.129    0.05
COEF-2      34  0.136    0.05
COEF-2      35  0.030    0.05
COEF-2      36  0.136    0.05
COEF-2      37  0.054    0.05
COEF-2      38  0.080    0.05
COEF-2      39  0.064    0.05
COEF-2      40  0.064    0.05
COEF-2      41  0.101    0.05
ENDATA13
ENDATA14
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------*********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
!
INCR-1      1    0.0     0.179959 20.85   0.01        5.60     51.6
INCR-1      2    0.0     0.000000 00000   0.00        0000     00.00
INCR-1      3    0.0     0.000000 00000   0.00        0000     00000
INCR-1      4    0.0     0.041881 21.28   0.00         5.5     56.00
INCR-1      5    0.0     0.043261 22.03   0.00         5.7     58.04
```

```
INCR-1       6    0.0     0.0000   00.000  0.00          000     00000
INCR-1       7    0.0     0.000000 00000   0.00         0000     00000
INCR-1       8    0.0     0.0000   00.000  0.00          000     00000
INCR-1       9    0.0     0.0000   00.000  0.00          000     00000
INCR-1      10    0.0     0.000000 00000   0.00         0000     00000
INCR-1      11    0.0     0.0000   00.000  0.00          000     00000
INCR-1      12    0.0     0.0000   00.000  0.00          000     00000
INCR-1      13    0.0     0.000000 00000   0.00         0000     0000
INCR-1      14    0.0     0.000000 00000   0.00         0000     00000
INCR-1      15    0.0     0.000000 00000   0.00         0000     00000
INCR-1      16    0.0     0.0000   00.000  0.00          000     00000
INCR-1      17    0.0     0.0000   00.000  0.00          000     00000
INCR-1      18    0.0     0.0000   00.000  0.00          000     00000
INCR-1      19    0.0     0.000000 00000   0.00         0000     00000
INCR-1      20    0.0     0.0000   00.000  0.00          000     00000
INCR-1      21    0.0     0.147505 21.66   0.00          10.4    95.61
INCR-1      22    0.0     0.000000 00000   0.00         0000     00000
INCR-1      23    0.0     0.0000   00.000  0.00          000     00000
INCR-1      24    0.0     0.0000   00.000  0.00          000     00000
INCR-1      25    0.0     0.0000   00.000  0.00          000     00000
INCR-1      26    0.0     0.0000   00.000  0.00          000     00000
INCR-1      27    0.0     0.000000 00000   0.00         0000     00000
INCR-1      28    0.0     0.0000   00.000  0.00          000     00000
INCR-1      29    0.0     0.0000   00.000  0.00          000     00000
INCR-1      30    0.0     0.000000 00000   0.00         0000     0000
INCR-1      31    0.0     0.000000 00000   0.00         0000     00000
INCR-1      32    0.0     0.000000 00000   0.00         0000     00000
INCR-1      33    0.0     0.0000   00.000  0.00          000     00000
INCR-1      34    0.0     0.188823 23.25   0.14          22.5    286.9
INCR-1      35    0.0     0.0000   00.000  0.00          000     00000
INCR-1      36    0.0     0.000000 00000   0.00         0000     00000
INCR-1      37    0.0     0.0000   00.000  0.00          000     00000
INCR-1      38    0.0     0.0000   00.000  0.00          000     00000
INCR-1      39    0.0     0.000000 00000   0.00         0000     00000
INCR-1      40    0.0     0.0000   00.000  0.00          000     00000
INCR-1      41    0.0     0.0000   00.000  0.00          000     00000
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#      DO     BOD 1     NBOD    NH3 N   NIT NIT    BOD 2
```

```
INCR-2      1      5.23    1.53     0.00     0.0      0.00    0.000
INCR-2      2      0000    0.00     0.00     0.0      0.00     0.00
INCR-2      3      0000    0000     0.00     0.0      0.00     0.00
INCR-2      4      7.76   1.318    0.023     0.0      0.00    0.000
INCR-2      5      8.27   2.393    0.388     0.0      0.00    0.000
INCR-2      6      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2      7      0000    0.00     0.00     0.0      0.00     0000
INCR-2      8      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2      9      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     10      0000   00000     0000     0.0      0.00     0000
INCR-2     11      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     12      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     13      0000    0.00     0.00     0.0      0.00     0.00
INCR-2     14      0000    0.00     0.00     0.0      0.00     0.00
INCR-2     15      0000    0000     0.00     0.0      0.00     0.00
INCR-2     16      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     17      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     18      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     19      0000    0.00     0.00     0.0      0.00     0000
INCR-2     20      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     21      2.72   2.684    0.046     0.0      0.00    00000
INCR-2     22      0000   00000     0000     0.0      0.00     0000
INCR-2     23      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     24      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     25      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     26      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     27      0000   00000     0000     0.0      0.00     0000
INCR-2     28      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     29      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     30      0000    0.00     0.00     0.0      0.00     0.00
INCR-2     31      0000    0.00     0.00     0.0      0.00     0.00
INCR-2     32      0000    0000     0.00     0.0      0.00     0.00
INCR-2     33      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     34      1.53  16.385    2.553     0.0      0.00     0000
INCR-2     35      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     36      0000    0.00     0.00     0.0      0.00     0000
INCR-2     37      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     38      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     39      0000   00000     0000     0.0      0.00     0000
INCR-2     40      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     41      0.00    0.00     0.00     0.0      0.00     0.00
ENDATA17
```

```
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
!
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1        0.0   0.0000     0.00      0.0      0.0      0.0
NONPOINT    2      0.063   00.017     0.00     00.0      0.0      0.0
NONPOINT    3       00.0   0.0000     0.00      0.0      0.0      0.0
NONPOINT    4       25.0   05.000     0.00     00.0      0.0    000.0
NONPOINT    5       00.0   00.000     0.00     00.0      0.0    000.0
NONPOINT    6      0.032   00.009     0.00    000.0      0.0     00.0
NONPOINT    7       00.0   00.000     0.00      0.0      0.0     00.0
NONPOINT    8      0.046   00.013     0.00     00.0      0.0     00.0
NONPOINT    9       00.0   00.000     0.00    000.0      0.0    000.0
NONPOINT   10       50.0   26.000     0.00     00.0      0.0     00.0
NONPOINT   11      0.014   0.0040     0.00      0.0      0.0      0.0
NONPOINT   12       85.0   026.00     0.00    000.0      0.0    000.0
NONPOINT   13      0.047   00.013     0.00      0.0      0.0      0.0
NONPOINT   14         50   26.000     0.00     00.0      0.0      0.0
NONPOINT   15        250    90.00     0.00      0.0      0.0      0.0
NONPOINT   16      0.035   00.010     0.00     00.0      0.0    000.0
NONPOINT   17       00.0   00.000     0.00     00.0      0.0    000.0
NONPOINT   18      0.035   00.010     0.00    000.0      0.0     00.0
NONPOINT   19       00.0   00.000     0.00      0.0      0.0     00.0
NONPOINT   20      150.0  00.0000     0.00     00.0      0.0     00.0
NONPOINT   21       00.0      000     0.00    000.0      0.0    000.0
NONPOINT   22        0.1    0.028     0.00     00.0      0.0    000.0
NONPOINT   23       00.0      000     0.00      0.0      0.0      0.0
NONPOINT   24      0.005    0.002     0.00    000.0      0.0    000.0
NONPOINT   25       25.0      000     0.00     00.0      0.0     00.0
NONPOINT   26      000.0      000     0.00    000.0      0.0    000.0
NONPOINT   27      0.033    0.009     0.00     00.0      0.0     00.0
NONPOINT   28      35.00      000     0.00      0.0      0.0      0.0
NONPOINT   29       0.02    0.006     0.00    000.0      0.0    000.0
NONPOINT   30       35.0       00     0.00      0.0      0.0      0.0
```

```
NONPOINT   31     390.00      200     0.00     00.0      0.0      0.0
NONPOINT   32       00.0   0.0000     0.00      0.0      0.0      0.0
NONPOINT   33      200.0  000.000     0.00     00.0      0.0    000.0
NONPOINT   34     000.00   00.000     0.00     00.0      0.0    000.0
NONPOINT   35      0.025   00.007     0.00    000.0      0.0     00.0
NONPOINT   36      65.00   000.00     0.00      0.0      0.0     00.0
NONPOINT   37      150.0   000.00     0.00     00.0      0.0     00.0
NONPOINT   38      50.00   000.00     0.00    000.0      0.0    00000
NONPOINT   39       00.0    0.000     0.00     00.0      0.0     00.0
NONPOINT   40       1500   500       0.00      0.0      0.0      0.0
NONPOINT   41        200     0000     0.00    000.0      0.0    000.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                       FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  BAYOU LACOMBE            0.092    20.85  0.01       5.6   51.6
HDWTR-1    11  Ditch #1 Hwy 36 BL       0.00028  20.85  0.01       5.6   51.6
HDWTR-1   168  Ditch #2 SNG ditch       0.00028  20.85  0.01       5.6   51.6
HDWTR-1   192  Ditch#3Hwy434/I-12BL     0.00028  20.85  0.01       5.6   51.6
HDWTR-1   240  Ditch #4 Keller Barn     0.00028  20.85  0.01       5.6   51.6
HDWTR-1   276  Ditch#5 Beau Village     0.00028  20.85  0.01       5.6   51.6
HDWTR-1   341  Ditch #6 Hwy 190 BL      0.00028  20.85  0.01       5.6   51.6
HDWTR-1   373  Ditch#7 Hwy434/190BL     0.00028  20.85  0.01       5.6   51.6
HDWTR-1   426  Big Branch Bayou         0.009    21.66  0.00      10.4   95.61
HDWTR-1   436  Dich#8Hwy434/I-12BBB     0.00028  21.66  0.00      10.4   95.61
HDWTR-1   521  Ditch #9 Folger          0.00028  21.66  0.00      10.4   95.61
HDWTR-1   564  Ditch A BerryTodd Rd     0.00028  21.66  0.00      10.4   95.61
HDWTR-1   595  Ditch B Hwy 190 BBB      0.00028  21.66  0.00      10.4   95.61
HDWTR-1   650  Cypress Bayou            0.023    23.25  0.14      22.5   286.9
HDWTR-1   653  Ditch C Hwy 190 CB       0.00028  23.25  0.14      22.5   286.9
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD    NH3-N    NIT NIT  BOD 2
HDWTR-2     1      5.23     1.53     0.000   .00      .00      0.000
HDWTR-2    11      5.00     2.200    1.000   .00      .00      00000
HDWTR-2   168      5.00     2.200    1.000   .00      .00      00000
HDWTR-2   192      5.00     2.20     1.000   .00      .00      0.000
```

```
HDWTR-2   240      5.00     2.200    1.000   .00      .00      00000
HDWTR-2   276      5.00     2.200    1.000   .00      .00      00000
HDWTR-2   341      4.00     2.20     1.000   .00      .00      0.000
HDWTR-2   373      4.00     2.200    1.000   .00      .00      00000
HDWTR-2   426      2.72     2.684    0.046   .00      .00      00000
HDWTR-2   436      4.00     2.20     1.000   .00      .00      0.000
HDWTR-2   521      4.00     2.200    1.000   .00      .00      00000
HDWTR-2   564      4.00     2.200    1.000   .00      .00      00000
HDWTR-2   595      4.00     2.20     1.000   .00      .00      0.000
HDWTR-2   650      1.53    16.385    2.553   .00      .00      00000
HDWTR-2   653      4.00     2.200    1.000   .00      .00      00000
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
ENDATA22
!         DS   US
JUNCTION  53   10   Hwy 36 ditch BL confluence with Bayou Lacombe
JUNCTION  189  167  Ditch #2-SNG Ditch confluence with Bayou Lacombe
JUNCTION  222  191  Ditch #3-Hwy 434/I-12 Ditch BL confluence with Bayou Lacombe
JUNCTION  249  239  Ditch #4-Keller Barn Ditch confluence with Bayou Lacombe
JUNCTION  306  275  Ditch #5-Beau Village Ditch confluence with Bayou Lacombe
JUNCTION  363  340  Ditch #6-Hwy 190 Ditch BL confluence with Bayou Lacombe
JUNCTION  395  372  Ditch #7-Hwy 434/190 Ditch BL confluence with Bayou Lacombe
JUNCTION  501  435  Ditch #8-Hwy 434/I-12 Ditch BBB confluence w/Big BranchBayou
JUNCTION  525  520  Ditch #9-Folger Ditch confluence with Big Branch Bayou
JUNCTION  584  563  Ditch A-Berry Todd Rd Ditch confluence with Big Branch Bayou
JUNCTION  608  594  Ditch B-Hwy 190 Ditch BBB confluence with Big Branch Bayou
JUNCTION  616  425  Big Branch Bayou confluence with Bayou Lacombe
JUNCTION  669  652  Ditch C-Hwy 190 Ditch CB confluence with Cypress Bayou
JUNCTION  715  649  Cypress Bayou confluence with Bayou Lacombe
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------------------********---------********---------********
!          E#     NAME                FLOW      TEMP   SALINITY CHLORIDE  COND
WSTLD-1    12  AI 138040 Animal Se 0.0001753   30.60    0.37     57.9    719.7
WSTLD-1    40  AI 120304 St Tamman 0.0001052   30.60    0.37     57.9    719.7
WSTLD-1   169  AI 94746 Southern N 0.0001095   30.60    0.37     57.9    719.7
```

```
WSTLD-1   196  AI 155402 Axonic Ne 0.0000438   30.60    0.37     57.9    719.7
WSTLD-1   206  Cluster1Hwy434I12BL 0.0002230   30.60    0.37     57.9    719.7
WSTLD-1   208  Cluster2Hwy434I12BL 0.0004582   30.60    0.37     57.9    719.7
WSTLD-1   223  Unnamed Tributary   0.004389    21.85    0.02      7.4     62.6
WSTLD-1   241  AI 119164 St Tamman 0.0000061   30.60    0.37     57.9    719.7
WSTLD-1   272  AI 157591 Carmelite 0.0000219   30.60    0.37     57.9    719.7
WSTLD-1   277  AI 33916 WTSO Beau  0.0010515   30.60    0.37     57.9    719.7
WSTLD-1   325  AI 93344 US Fish &  0.0000491   30.60    0.37     57.9    719.7
WSTLD-1   342  AI 43023 Regina Coe 0.0000854   30.60    0.37     57.9    719.7
WSTLD-1   344  AI 40796 Janie Brow 0.0000767   30.60    0.37     57.9    719.7
WSTLD-1   349  Cluster 1 Hwy190 BL 0.0000166   30.60    0.37     57.9    719.7
WSTLD-1   350  Cluster 2 Hwy190 BL 0.0003395   30.60    0.37     57.9    719.7
WSTLD-1   352  Cluster 3 Hwy190 BL 0.0006432   30.60    0.37     57.9    719.7
WSTLD-1   353  Cluster 4 Hwy190 BL 0.0000390   30.60    0.37     57.9    719.7
WSTLD-1   354  AI 43406 Bayou Laco 0.0002015   30.60    0.37     57.9    719.7
WSTLD-1   358  Cluster 5 Hwy190 BL 0.0001406   30.60    0.37     57.9    719.7
WSTLD-1   360  Cluster 6 Hwy190 BL 0.0009637   30.60    0.37     57.9    719.7
WSTLD-1   374  AI 97944 Hwy 34 Min 0.0000009   30.60    0.37     57.9    719.7
WSTLD-1   390  AI 157861 Kingdom H 0.0000329   30.60    0.37     57.9    719.7
WSTLD-1   391  AI 119750 Highway 4 0.0000096   30.60    0.37     57.9    719.7
WSTLD-1   442  AI 165334 H2O Syste 0.0000307   30.60    0.37     57.9    719.7
WSTLD-1   464  AI 94173 Southeaste 0.0026288   30.60    0.37     57.9    719.7
WSTLD-1   522  AI 114220 Folger Co 0.0001753   30.60    0.37     57.9    719.7
WSTLD-1   565  AI 157509 Feather & 0.0024535   30.60    0.37     57.9    719.7
WSTLD-1   596  AI 156133 Python Co 0.0000053   30.60    0.37     57.9    719.7
WSTLD-1   602  AI 101375 OW Bayou  0.0000009   30.60    0.37     57.9    719.7
WSTLD-1   651  AI 31079 Brier Lake 0.0015334   23.06    0.26     23.5    516.3
WSTLD-1   654  AI 127495 A to Z Pr 0.0000745   30.60    0.37     57.9    719.7
WSTLD-1   655  AI 123821 Kevin J S 0.0000088   30.60    0.37     57.9    719.7
WSTLD-1   660  AI 157767 St Tamman 0.0000009   30.60    0.37     57.9    719.7
WSTLD-1   661  AI 157892 Mottie Mc 0.0000018   30.60    0.37     57.9    719.7
WSTLD-1   663  AI 119584 Tiller of 0.0000044   30.60    0.37     57.9    719.7
WSTLD-1   674  AI 41881 ICO Corp   0.0000035   30.60    0.37     57.9    719.7
WSTLD-1   677  AI 117076 LA Pines  0.0002190   30.60    0.37     57.9    719.7
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678890
!        ****  ---------*********----********---------*****---------*********
!          E#      DO      BOD 1         NBOD    NH3-N        NIT NIT   BOD 2
WSTLD-2    12     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2    40     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
```

```
WSTLD-2   169     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   196     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   206     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   208     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   223     4.24      3.887  0.0   0.137    0.00    0.0   0.00     00000
WSTLD-2   241     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   272     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   277     2.00       23.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   325     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   342     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   344     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   349     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   350     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   352     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   353     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   354     2.00       23.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   358     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   360     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   374     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   390     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   391     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   442     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   464     2.00       23.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   522     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   565     2.00       57.5  0.0    86.0    0.00    0.0   0.00     00000
WSTLD-2   596     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   602     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   651     2.39       23.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   654     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   655     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   660     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   661     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   663     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   674     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   677     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345789012345678901234567890123456789 0
!        ****  ---------********---------*********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
ENDATA26
```

```
LOWER BC TEMPERATURE                        =  24.97
LOWER BC SALINITY                           =   7.02
LOWER BC CONSERVATIVE MATERIAL I (chloride) =   4128
LOWER BC CONSERVATIVE MATERIAL II (conduct) =  12216
LOWER BC DISSOLVED OXYGEN                   =   7.14
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =   5.012
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =   00000
LOWER BC CHLOROPHYLL A                      =   8.3
LOWER BC NBOD                               =   1.166
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ******************** ** ******** ******** ********
ENDATA28
SENSITIV BASEFLOW   30    -30
SENSITIV VELOCITY   30    -30
SENSITIV DEPTH      30    -30
SENSITIV DISPERSI   30    -30
SENSITIV REAERATI   30    -30
SENSITIV BOD DECA   30    -30
SENSITIV BOD SETT   30    -30
SENSITIV BOD2 DEC   30    -30
SENSITIV BOD2 SET   30    -30
SENSITIV TRANGE     30    -30
SENSITIV NBOD DEC   30    -30
SENSITIV NBOD SET   30    -30
SENSITIV BENTHAL    30    -30
SENSITIV TEMPERAT    2     -2
SENSITIV SALINITY   30    -30
SENSITIV CHLOR A    30    -30
SENSITIV INC INFL   30    -30
SENSITIV INC TEMP   30    -30
SENSITIV INC DO     30    -30
SENSITIV INC BOD    30    -30
SENSITIV INC BOD2   30    -30
SENSITIV INC NBOD   30    -30
SENSITIV HDW FLOW   30    -30
SENSITIV HDW TEMP   30    -30
SENSITIV HDW DO     30    -30
SENSITIV HDW BOD    30    -30
SENSITIV HDW BOD2   30    -30
```

```
SENSITIV HDW NBOD   30    -30
SENSITIV WSL FLOW   30    -30
SENSITIV WSL TEMP    2     -2
SENSITIV WSL DO     30    -30
SENSITIV WSL BOD    30    -30
SENSITIV WSL BOD2   30    -30
SENSITIV WSL NBOD   30    -30
SENSITIV OXR        30    -30
SENSITIV LBC TEMP    2     -2
SENSITIV LBC DO     30    -30
SENSITIV LBC BOD    30    -30
SENSITIV LBC BOD2   30    -30
SENSITIV LBC CHLO   30    -30
SENSITIV LBC NBOD   30    -30
SENSITIV NPS BOD    30    -30
SENSITIV NPS BOD2   30    -30
SENSITIV NPS NBOD   30    -30
ENDATA29
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
NUMBER OF PLOTS = 8
NUMBER OF REACHES IN PLOT 1 =  18
PLOT RCH 1  3  4  5  7  9  10 12 14 15 17 19 20 32 33 39 40 41
NUMBER OF REACHES IN PLOT 2 =   7
PLOT RCH 21 23 25 26 28 30 31
NUMBER OF REACHES IN PLOT 3 =   4
PLOT RCH 34 36 37 38
NUMBER OF REACHES IN PLOT 4 =   1
PLOT RCH 22
NUMBER OF REACHES IN PLOT 5 =   1
PLOT RCH 24
NUMBER OF REACHES IN PLOT 6 =   1
PLOT RCH 27
NUMBER OF REACHES IN PLOT 7 =   1
PLOT RCH 29
NUMBER OF REACHES IN PLOT 8 =   1
PLOT RCH 35
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
ENDATA30
```

```
OVERLAY 1 OVLBL.txt                        BAYOU LACOMBE
OVERLAY 2 OVLBBB.txt                       BIG BRANCH BAYOU
OVERLAY 3 OVLCB.txt                        CYPRESS BAYOU
OVERLAY 4 ovld8rch22.txt                   Hwy 434/I-12 ditch on BBB (D8, Rch 22)
OVERLAY 5 ovld9rch24.txt                   Folger ditch on BBB (D9, Rch 24)
OVERLAY 6 ovldarch27.txt                   Berry Todd Rd ditch on BBB (DA, Rch 27)
OVERLAY 7 ovldbrch29.txt                   Hwy 190 ditch on BBB (DB, Rch 29)
OVERLAY 8 ovldcrch35.txt                   Hwy 190 ditch on CB (DC, Rch 35)
ENDATA31
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
!NUMBER OF PLOTS = 7
!NUMBER OF REACHES IN PLOT 1 =   1
!PLOT RCH 2
!NUMBER OF REACHES IN PLOT 2 =   1
!PLOT RCH 6
!NUMBER OF REACHES IN PLOT 3 =   1
!PLOT RCH 8
!NUMBER OF REACHES IN PLOT 4 =   1
!PLOT RCH 11
!NUMBER OF REACHES IN PLOT 5 =   1
!PLOT RCH 13
!NUMBER OF REACHES IN PLOT 6 =   1
!PLOT RCH 16
!NUMBER OF REACHES IN PLOT 7 =   1
!PLOT RCH 18
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
!ENDATA30
!OVERLAY 1 ovld1rch2.txt                    Hwy 36 ditch on BL (D1, Rch 2)
!OVERLAY 2 ovld2rch6.txt                    SNG ditch on BL (D2, Rch 6)
!OVERLAY 3 ovld3rch8.txt                    Hwy 434/I-12 ditch on BL (D3, Rch 8)
!OVERLAY 4 ovld4rch11.txt                   Keller Barn ditch on BL (D4, Rch 11)
!OVERLAY 5 ovld5rch13.txt                   Beau Village ditch on BL (D5, Rch 13)
!OVERLAY 6 ovld6rch16.txt                   Hwy 190 ditch on BL (D6, Rch 16)
!OVERLAY 7 ovld7rch18.txt                   Hwy 434/190 ditch on BL (D7, Rch 18)
!ENDATA31
```

DITCHES CALIBRATION OVERLAY DATA SETS

Ovld1rch2.txt

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
STD 05 5.0       4.2       0.0
END
```

Ovld2rch6.txt

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
STD 05 5.0       2.1       0.0
END
```

Ovld3rch8.txt

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
STD 05 5.0       3.0       0.0
END
```

Ovld4rch11.txt

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
STD 05 5.0       0.9       0.0
END
```

Ovld5rch13.txt

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
STD 05 5.0       3.0       0.0
END
```

Ovld6rch16.txt

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
STD 05 4.0       2.2       0.0
END
```

Ovld7rch18.txt

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
STD 05 4.0       2.2       0.0
END
```

Ovld8rch22.txt

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
STD 05 4.0       6.5       0.0
END
```

Ovld9rch24.txt

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
STD 05 4.0       0.4       0.0
END
```

Ovldarch27.txt

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
STD 05 4.0       2.0       0.0
END
```

Ovldbrch29.txt

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
STD 05 4.0       1.3       0.0
END
```

Ovldcrch35.txt

```
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
STD 05 4.0       1.6       0.0
END
```

BIG BRANCH BAYOU OVERLAY FILE

```
STA     003 KILOMETER    5.2
01    21.40      21.66    21.90           TEMPERATURE
02                 0.0                     salinity
03                10.4                     chlorides
04    94.0        95.6    98.0            conductivity
05    2.40        2.72    3.30            DO
06               2.684                     CBOD1
18               0.046                     NBOD
31               .0090                     FLOW
33               0.390                     DEPTH
34               3.660                     WIDTH
STA     002 KILOMETER    2.0
01    23.00      23.10    23.40           TEMPERATURE
02     0.20       0.35     0.70           salinity
03                79.9                     chlorides
04    392.0      661.0     1269           conductivity
05     0.70       1.58     1.90           DO
06               5.801                     CBOD1
18               0.492                     NBOD
31               0.160                     FLOW
33               1.120                     DEPTH
34               15.24                     WIDTH
STA     001 KILOMETER    0.3
```

```
01    25.58      25.83    26.11           TEMPERATURE
02     3.86       4.19     4.60           salinity
03                3278                    chlorides
04    6945        7509    8206            conductivity
05    0.17        1.73    2.89            DO
06              11.159                    CBOD1
18               3.202                    NBOD
33               2.130                    DEPTH
34               39.62                    WIDTH
STD 05 4.0         5.20       0.0
MRK    5.2      BEGIN REACH 21
MRK    5.1      Begin Reach 23
MRK    4.9      Begin Reach 25
MRK    2.0      Begin Reach 26
MRK    1.9      Begin Reach 28
MRK    0.8      Begin Reach 30
MRK    0.3      Begin Reach 31
END
```

CYPRESS BAYOU OVERLAY FILE

```
STA     003 KILOMETER     4.9
01               23.25                   TEMPERATURE
02                0.14                   salinity
03                22.5                   chlorides
04               286.9                   conductivity
05                1.53                   DO
06              16.385                   CBOD1
18               2.553                   NBOD
31                .023                   FLOW
33               0.290                   DEPTH
34               4.690                   WIDTH
STA     002 KILOMETER    2.9
01               24.84                   TEMPERATURE
02                3.82                   salinity
03                1868                   chlorides
04                6880                   conductivity
05                0.99                   DO
06               19.93                   CBOD1
18               2.086                   NBOD
31               0.219                   FLOW
33               1.390                   DEPTH
```

```
34              14.020                    WIDTH
STA     001 KILOMETER    0.2
01               25.27                    TEMPERATURE
02                5.34                    salinity
03                2965                    chlorides
04                9453                    conductivity
05                5.35                    DO
06               9.958                    CBOD1
18               1.337                    NBOD
33               2.730                    DEPTH
34               35.36                    WIDTH
STD 05 4.0         4.90       0.0
MRK    4.9      BEGIN REACH 34
MRK    4.6      Begin Reach 36
MRK    2.9      Begin Reach 37
MRK    0.2      Begin Reach 38
END
```

BAYOU LACOMBE MAINSTEM OVERLAY FILE

```
STA     001 KILOMETER   31.0
01               20.85                    TEMPERATURE
02                0.01                    salinity
03                 5.6                    chloride
04                51.6                    conductivity
05     5.05       5.23     5.37           DO
06               1.530                    CBOD1
13                 0.0                    Chl-a
18               0.000                    NBOD
31                .092                    FLOW
33                0.40                    DEPTH
34                5.79                    WIDTH
STA     002 KILOMETER   25.2
01               21.28                    TEMPERATURE
02                0.00                    salinity
03                 5.5                    chloride
04                56.0                    conductivity
05    7.40        7.76    8.10            DO
06               1.318                    CBOD1
13                 0.0                    Chl-a
18               0.023                    NBOD
```

```
31                .2730                    FLOW
33                 0.18                    DEPTH
34                6.100                    WIDTH
STA     003 KILOMETER   20.3
01               22.03                     TEMPERATURE
02                0.00                     salinity
03                 5.7                     chloride
04               58.04                     conductivity
05    8.00        8.27    8.60             DO
06               2.393                     CBOD1
13                 0.0                     Chl-a
18               0.388                     NBOD
31                .315                     FLOW
33                0.17                     DEPTH
34               7.160                     WIDTH
STA     004 KILOMETER   18.9
01               22.64                     TEMPERATURE
02                0.02                     salinity
03                 5.7                     chloride
04               57.00                     conductivity
05    7.58        7.86    8.25             DO
06               2.424                     CBOD1
13                 0.0                     Chl-a
18               0.073                     NBOD
31                .364                     FLOW
33                0.42                     DEPTH
34               9.300                     WIDTH
STA     005 KILOMETER   13.2
01               23.12                     TEMPERATURE
02                0.36                     salinity
03                3247                     chloride
04                 696                     conductivity
05    2.82        3.92    4.27             DO
06               8.253                     CBOD1
13                10.6                     CHL-A
18               2.799                     NBOD
33                3.60                     DEPTH
34              25.300                     WIDTH
STA     006 KILOMETER   10.9
01               25.47                     TEMPERATURE
02                4.78                     salinity
03                3514                     chloride
```

```
04                 8517                    conductivity
!05                 2.42                    DO
!DO is from insitu
06               9.511                     CBOD1
13                11.3                     CHL-A
18               2.690                     NBOD
33               3.150                     DEPTH
34              44.200                     WIDTH
STA     007 KILOMETER    8.7
01               25.85                     TEMPERATURE
02                4.08                     salinity
03                3643                     chloride
04                7320                     conductivity
05    2.78        4.03    6.67             DO
06              10.724                     CBOD1
13                20.2                     CHL-A
18               2.761                     NBOD
33                2.56                     DEPTH
34              82.300                     WIDTH
STA     008 KILOMETER    6.1
01               25.49                     TEMPERATURE
02                5.26                     salinity
03                2977                     chloride
04                9328                     conductivity
05    4.90        5.60    6.60             DO
06               9.975                     CBOD1
13                17.2                     CHL-A
18               1.388                     NBOD
33                3.03                     DEPTH
34              74.676                     WIDTH
STA     009 KILOMETER    0.3
01               24.97                     TEMPERATURE
02                7.05                     salinity
03                4093                     chloride
04               12287                     conductivity
05    5.20        6.19    7.50             DO
06               7.190                     CBOD1
13                11.7                     CHL-A
18               1.679                     NBOD
33                1.80                     DEPTH
34              99.360                     WIDTH
STD 05 5.0        31.0       11.1
```

```
STD 05 4.0         11.1         0.0
MRK   30.9       Begin Reach 3
MRK   25.200     BEGIN REACH 4
MRK   20.300     BEGIN REACH 5
MRK   19.4       Begin Reach 7
MRK   19.1       Begin Reach 9
MRK   18.900     BEGIN REACH 10
MRK   17.3       Begin Reach 12
MRK   14.6       Begin Reach 14
MRK   13.200     BEGIN REACH 15
MRK   11.1       Begin Reach 17
MRK   11.0       Begin Reach 19
MRK   10.900     BEGIN REACH 20
MRK    8.800     BEGIN REACH 32
MRK   8.7        Begin Reach 33
MRK    6.300     BEGIN REACH 39
MRK   6.1        Begin Reach 40
MRK   0.3        Begin Reach 41
END
```

BAYOU LACOMBE CALIBRATION OUTPUT DATA SET

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is \\Alpha_nt\owreng\Personal_Folders\Bryan Hitt\Bayou Lacombe\Input Files\Calibration\Lacombe calib input.txt
Output produced at 16:01 on 09/21/2011

$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$

CARD TYPE       CONTROL TITLES

TITLE01         BAYOU LACOMBE WATERSHED MODEL
TITLE02         CALIBRATION
CONTROL   YES   METRIC UNITS
ENDATA01

$$$ DATA TYPE 2 (MODEL OPTIONS) $$$

CARD TYPE       MODEL OPTION

MODOPT     NO   TEMPERATURE
MODOPT    YES   SALINITY
MODOPT    YES   CONSERVATIVE MATERIAL  I = CHLORIDE                 IN  mg/L     chloride
MODOPT    YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN  uS/cm    conduct
MODOPT    YES   DISSOLVED OXYGEN
MODOPT    YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT     NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT    YES   NBOD OXYGEN DEMAND
MODOPT     NO   PHOSPHORUS
MODOPT     NO   CHLOROPHYLL A
MODOPT     NO   MACROPHYTES
MODOPT     NO   COLIFORM
ENDATA02

$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =        0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =        3.00000 (inhibit all rates but SOD)
PROGRAM         DISPERSION EQUATION               =        1.00000 (values entered as a constant)
```

```
PROGRAM         OCEAN EXCHANGE RATIO              =        1.00000
PROGRAM         TIDE HEIGHT                       =        0.15200 meters
PROGRAM         TIDAL PERIOD                      =       25.00000 hours
PROGRAM         PERIOD OF TIDAL RISE              =       12.50000 hours
PROGRAM         K2 MAXIMUM                        =       25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =        2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =        2.00000 (values entered as per day)
ENDATA03

$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA05

$$$ DATA TYPE 6 (ALGAE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA06

$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
```

CARD TYPE	REACH	ID	NAME	BEGIN REACH km		END REACH km	ELEM LENGTH km	REACH LENGTH km	ELEMS PER RCH	BEGIN ELEM NUM	END ELEM NUM
REACH ID	1	BL	BL01 TO Hwy 36 Ditch BL	31.00	TO	30.90	0.0100	0.10	10	1	10
REACH ID	2	D1	Hwy 36 Ditch BL	4.20	TO	0.00	0.1000	4.20	42	11	52
REACH ID	3	BL	Hwy 36 Ditch BL to BL02	30.90	TO	25.20	0.1000	5.70	57	53	109
REACH ID	4	BL	BL02 to BL03	25.20	TO	20.30	0.1000	4.90	49	110	158
REACH ID	5	BL	BL03 to SNG Ditch	20.30	TO	19.40	0.1000	0.90	9	159	167
REACH ID	6	D2	SNG Ditch	2.10	TO	0.00	0.1000	2.10	21	168	188
REACH ID	7	BL	SNG Ditch to Hwy434/I-12 Dich BL	19.40	TO	19.10	0.1000	0.30	3	189	191
REACH ID	8	D3	Hwy 434/I-12 Ditch BL	3.00	TO	0.00	0.1000	3.00	30	192	221
REACH ID	9	BL	Hwy434/I-12DitchBL to BL04	19.10	TO	18.90	0.1000	0.20	2	222	223
REACH ID	10	BL	BL04 to Keller Barn Ditch	18.90	TO	17.30	0.1000	1.60	16	224	239
REACH ID	11	D4	Keller Barn Ditch	0.90	TO	0.00	0.1000	0.90	9	240	248
REACH ID	12	BL	KellerBarnDitchToBeauVillageDich	17.30	TO	14.60	0.1000	2.70	27	249	275
REACH ID	13	D5	Beau Village Ditch	3.00	TO	0.00	0.1000	3.00	30	276	305
REACH ID	14	BL	Beau Village Ditch to BL05	14.60	TO	13.20	0.1000	1.40	14	306	319
REACH ID	15	BL	BL05 to Hwy 190 Ditch BL	13.20	TO	11.10	0.1000	2.10	21	320	340
REACH ID	16	D6	Hwy 190 Ditch BL	2.20	TO	0.00	0.1000	2.20	22	341	362
REACH ID	17	BL	Hwy190DitchBLtoHwy434/190DitchBL	11.10	TO	11.00	0.0100	0.10	10	363	372
REACH ID	18	D7	Hwy 434/190 Ditch BL	2.20	TO	0.00	0.1000	2.20	22	373	394
REACH ID	19	BL	Hwy 434/190 Ditch BL to BL06	11.00	TO	10.90	0.0100	0.10	10	395	404
REACH ID	20	BL	BL06 to confluence with BBB	10.90	TO	8.80	0.1000	2.10	21	405	425
REACH ID	21	BB	BB03 to Hwy 434/I-12 ditch BBB	5.20	TO	5.10	0.0100	0.10	10	426	435
REACH ID	22	D8	Hwy 434/I-12 Ditch BBB	6.50	TO	0.00	0.1000	6.50	65	436	500
REACH ID	23	BB	Hwy434/I-12DitchBBBtoFolgerDitch	5.10	TO	4.90	0.0100	0.20	20	501	520
REACH ID	24	D9	Folger Ditch	0.40	TO	0.00	0.1000	0.40	4	521	524
REACH ID	25	BB	Folger Ditch to BB02	4.90	TO	2.00	0.1000	2.90	29	525	553
REACH ID	26	BB	BB02 to Berry Todd Rd Ditch	2.00	TO	1.90	0.0100	0.10	10	554	563
REACH ID	27	DA	Berry Todd Rd Ditch	2.00	TO	0.00	0.1000	2.00	20	564	583
REACH ID	28	BB	BerryToddRdDitchtoHwy190DitchBBB	1.90	TO	0.80	0.1000	1.10	11	584	594
REACH ID	29	DB	Hwy 190 Ditch BBB	1.30	TO	0.00	0.1000	1.30	13	595	607
REACH ID	30	BB	Hwy 190 Ditch BBB to BB01	0.80	TO	0.30	0.1000	0.50	5	608	612
REACH ID	31	BB	BB01toConfluenceWithBayouLacombe	0.30	TO	0.00	0.1000	0.30	3	613	615
REACH ID	32	BL	Big Branch Bayou to BL07	8.80	TO	8.70	0.0100	0.10	10	616	625
REACH ID	33	BL	BL07to confluence w/CypressBayou	8.70	TO	6.30	0.1000	2.40	24	626	649
REACH ID	34	CB	CB03 to Hwy 190 ditch CB	4.90	TO	4.60	0.1000	0.30	3	650	652
REACH ID	35	DC	Hwy 190 Ditch CB	1.60	TO	0.00	0.1000	1.60	16	653	668
REACH ID	36	CB	Hwy 190 Ditch CB to CB02	4.60	TO	2.90	0.1000	1.70	17	669	685
REACH ID	37	CB	CB02 to CB01	2.90	TO	0.20	0.1000	2.70	27	686	712
REACH ID	38	CB	CB01to confluence w/BayouLacombe	0.20	TO	0.00	0.1000	0.20	2	713	714
REACH ID	39	BL	Cypress Bayou to BL08	6.30	TO	6.10	0.1000	0.20	2	715	716
REACH ID	40	BL	BL08 to BL09	6.10	TO	0.30	0.1000	5.80	58	717	774
REACH ID	41	BL	BL09 to Lake Pontchartrain	0.30	TO	0.00	0.1000	0.30	3	775	777

```
ENDATA08

$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID       WIDTH       WIDTH       WIDTH       DEPTH       DEPTH       DEPTH      SLOPE    MANNINGS
```

			"A"	"B"	"C"	"D"	"E"	"F"		"N"
HYDR-1	1	BL	0.000	0.000	5.790	0.000	0.000	0.400	0.00000	0.020
HYDR-1	2	D1	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	3	BL	0.000	0.000	5.790	0.000	0.000	0.400	0.00000	0.020
HYDR-1	4	BL	0.000	0.000	6.100	0.000	0.000	0.180	0.00000	0.020
HYDR-1	5	BL	0.000	0.000	7.160	0.000	0.000	0.170	0.00000	0.020
HYDR-1	6	D2	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	7	BL	0.000	0.000	7.160	0.000	0.000	0.170	0.00000	0.020
HYDR-1	8	D3	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	9	BL	0.000	0.000	7.160	0.000	0.000	0.170	0.00000	0.020
HYDR-1	10	BL	0.000	0.000	9.300	0.000	0.000	0.420	0.00000	0.020
HYDR-1	11	D4	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	12	BL	0.000	0.000	9.300	0.000	0.000	0.420	0.00000	0.020
HYDR-1	13	D5	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	14	BL	0.000	0.000	9.300	0.000	0.000	0.420	0.00000	0.020
HYDR-1	15	BL	0.000	0.000	25.300	0.000	0.000	3.600	0.00000	0.020
HYDR-1	16	D6	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	17	BL	0.000	0.000	25.300	0.000	0.000	3.600	0.00000	0.020
HYDR-1	18	D7	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	19	BL	0.000	0.000	25.300	0.000	0.000	3.600	0.00000	0.020
HYDR-1	20	BL	0.000	0.000	44.200	0.000	0.000	3.150	0.00000	0.020
HYDR-1	21	BB	0.000	0.000	3.660	0.000	0.000	0.390	0.00000	0.020
HYDR-1	22	D8	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	23	BB	0.000	0.000	3.660	0.000	0.000	0.390	0.00000	0.020
HYDR-1	24	D9	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	25	BB	0.000	0.000	3.660	0.000	0.000	0.390	0.00000	0.020
HYDR-1	26	BB	0.000	0.000	15.240	0.000	0.000	1.120	0.00000	0.020
HYDR-1	27	DA	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	28	BB	0.000	0.000	15.240	0.000	0.000	1.120	0.00000	0.020
HYDR-1	29	DB	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	30	BB	0.000	0.000	15.240	0.000	0.000	1.120	0.00000	0.020
HYDR-1	31	BB	0.000	0.000	39.620	0.000	0.000	2.130	0.00000	0.020
HYDR-1	32	BL	0.000	0.000	82.300	0.000	0.000	2.560	0.00000	0.020
HYDR-1	33	BL	0.000	0.000	82.300	0.000	0.000	2.560	0.00000	0.020
HYDR-1	34	CB	0.000	0.000	4.690	0.000	0.000	0.290	0.00000	0.020
HYDR-1	35	DC	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	36	CB	0.000	0.000	4.690	0.000	0.000	0.290	0.00000	0.020
HYDR-1	37	CB	0.000	0.000	14.020	0.000	0.000	1.390	0.00000	0.020
HYDR-1	38	CB	0.000	0.000	35.360	0.000	0.000	2.730	0.00000	0.020
HYDR-1	39	BL	0.000	0.000	74.680	0.000	0.000	3.030	0.00000	0.020
HYDR-1	40	BL	0.000	0.000	74.680	0.000	0.000	3.030	0.00000	0.020
HYDR-1	41	BL	0.000	0.000	99.360	0.000	0.000	1.800	0.00000	0.020

ENDATA09

$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE	REACH	ID	TIDAL RANGE	DISPERSION "A"	DISPERSION "B"	DISPERSION "C"	DISPERSION "D"
HYDR	1	BL	0.00	0.500	0.000	0.000	0.000
HYDR	2	D1	0.00	0.000	0.000	0.000	0.000
HYDR	3	BL	0.00	0.500	0.000	0.000	0.000
HYDR	4	BL	0.00	0.500	0.000	0.000	0.000
HYDR	5	BL	0.00	0.500	0.000	0.000	0.000
HYDR	6	D2	0.00	0.000	0.000	0.000	0.000
HYDR	7	BL	0.00	0.500	0.000	0.000	0.000
HYDR	8	D3	0.00	0.000	0.000	0.000	0.000
HYDR	9	BL	0.00	0.500	0.000	0.000	0.000
HYDR	10	BL	0.25	0.500	0.000	0.000	0.000
HYDR	11	D4	0.00	0.000	0.000	0.000	0.000
HYDR	12	BL	0.25	0.500	0.000	0.000	0.000
HYDR	13	D5	0.00	0.000	0.000	0.000	0.000
HYDR	14	BL	0.50	0.500	0.000	0.000	0.000
HYDR	15	BL	0.75	0.500	0.000	0.000	0.000
HYDR	16	D6	0.00	0.000	0.000	0.000	0.000
HYDR	17	BL	0.75	0.500	0.000	0.000	0.000
HYDR	18	D7	0.00	0.000	0.000	0.000	0.000
HYDR	19	BL	0.75	0.500	0.000	0.000	0.000
HYDR	20	BL	1.00	2.000	0.000	0.000	0.000
HYDR	21	BB	0.25	0.500	0.000	0.000	0.000
HYDR	22	D8	0.00	0.000	0.000	0.000	0.000
HYDR	23	BB	0.50	1.000	0.000	0.000	0.000
HYDR	24	D9	0.00	0.000	0.000	0.000	0.000
HYDR	25	BB	0.75	2.000	0.000	0.000	0.000
HYDR	26	BB	1.00	2.500	0.000	0.000	0.000
HYDR	27	DA	0.00	0.000	0.000	0.000	0.000
HYDR	28	BB	1.00	3.500	0.000	0.000	0.000
HYDR	29	DB	0.00	0.000	0.000	0.000	0.000
HYDR	30	BB	1.00	5.500	0.000	0.000	0.000
HYDR	31	BB	1.00	7.500	0.000	0.000	0.000
HYDR	32	BL	1.00	3.000	0.000	0.000	0.000
HYDR	33	BL	1.00	4.000	0.000	0.000	0.000
HYDR	34	CB	0.50	1.000	0.000	0.000	0.000

```
HYDR        35   DC      0.00        0.000         0.000         0.000         0.000
HYDR        36   CB      0.75        3.500         0.000         0.000         0.000
HYDR        37   CB      1.00        5.500         0.000         0.000         0.000
HYDR        38   CB      1.00        7.500         0.000         0.000         0.000
HYDR        39   BL      1.00        5.000         0.000         0.000         0.000
HYDR        40   BL      1.00        6.000         0.000         0.000         0.000
HYDR        41   BL      1.00        7.500         0.000         0.000         0.000
ENDATA10

$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$

CARD TYPE      REACH  ID        TEMP     SALIN        DO       NH3     NO3+2      PHOS     CHL A     MACRO

INITIAL          1   BL       20.85      0.01      5.23      0.00      0.00      0.00      0.00      0.00
INITIAL          2   D1       20.85      0.01      5.23      0.00      0.00      0.00      0.00      0.00
INITIAL          3   BL       20.85      0.01      5.23      0.00      0.00      0.00      0.00      0.00
INITIAL          4   BL       21.28      0.00      7.76      0.00      0.00      0.00      0.00      0.00
INITIAL          5   BL       22.03      0.00      8.27      0.00      0.00      0.00      0.00      0.00
INITIAL          6   D2       22.03      0.00      8.27      0.00      0.00      0.00      0.00      0.00
INITIAL          7   BL       22.03      0.00      8.27      0.00      0.00      0.00      0.00      0.00
INITIAL          8   D3       22.03      0.00      8.27      0.00      0.00      0.00      0.00      0.00
INITIAL          9   BL       22.03      0.00      8.27      0.00      0.00      0.00      0.00      0.00
INITIAL         10   BL       22.64      0.02      7.86      0.00      0.00      0.00      0.00      0.00
INITIAL         11   D4       22.64      0.02      7.86      0.00      0.00      0.00      0.00      0.00
INITIAL         12   BL       22.64      0.02      7.86      0.00      0.00      0.00      0.00      0.00
INITIAL         13   D5       22.64      0.02      7.86      0.00      0.00      0.00      0.00      0.00
INITIAL         14   BL       22.64      0.02      7.86      0.00      0.00      0.00      0.00      0.00
INITIAL         15   BL       23.12      0.36      3.92      0.00      0.00      0.00     10.60      0.00
INITIAL         16   D6       23.12      0.36      3.92      0.00      0.00      0.00      0.00      0.00
INITIAL         17   BL       23.12      0.36      3.92      0.00      0.00      0.00     10.60      0.00
INITIAL         18   D7       23.12      0.36      3.92      0.00      0.00      0.00      0.00      0.00
INITIAL         19   BL       23.12      0.36      3.92      0.00      0.00      0.00     10.60      0.00
INITIAL         20   BL       25.47      4.78      2.42      0.00      0.00      0.00     11.30      0.00
INITIAL         21   BB       21.66      0.00      2.72      0.00      0.00      0.00      2.60      0.00
INITIAL         22   D8       21.66      0.00      2.72      0.00      0.00      0.00      0.00      0.00
INITIAL         23   BB       21.66      0.00      2.72      0.00      0.00      0.00      2.60      0.00
INITIAL         24   D9       21.66      0.00      2.72      0.00      0.00      0.00      0.00      0.00
INITIAL         25   BB       21.66      0.00      2.72      0.00      0.00      0.00      2.60      0.00
INITIAL         26   BB       23.10      0.35      1.58      0.00      0.00      0.00     14.40      0.00
INITIAL         27   DA       23.10      0.35      1.58      0.00      0.00      0.00      0.00      0.00
INITIAL         28   BB       23.10      0.35      1.58      0.00      0.00      0.00     14.40      0.00
INITIAL         29   DB       23.10      0.35      1.58      0.00      0.00      0.00      0.00      0.00
INITIAL         30   BB       23.10      0.35      1.58      0.00      0.00      0.00     14.40      0.00
INITIAL         31   BB       25.83      4.19      1.73      0.00      0.00      0.00     26.20      0.00
INITIAL         32   BL       25.85      4.08      4.03      0.00      0.00      0.00     20.20      0.00
INITIAL         33   BL       25.85      4.08      4.03      0.00      0.00      0.00     20.20      0.00
INITIAL         34   CB       23.25      0.14      1.53      0.00      0.00      0.00     24.60      0.00
INITIAL         35   DC       23.25      0.14      1.53      0.00      0.00      0.00      0.00      0.00
INITIAL         36   CB       23.25      0.14      1.53      0.00      0.00      0.00     24.60      0.00
INITIAL         37   CB       24.84      3.82      0.99      0.00      0.00      0.00     22.60      0.00
INITIAL         38   CB       25.27      5.34      5.35      0.00      0.00      0.00     20.60      0.00
INITIAL         39   BL       25.49      5.26      5.60      0.00      0.00      0.00     17.20      0.00
INITIAL         40   BL       25.49      5.26      5.60      0.00      0.00      0.00     17.20      0.00
INITIAL         41   BL       24.97      7.05      6.19      0.00      0.00      0.00     11.70      0.00
ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                                                   BOD     ANAER                                BOD2     ANAER
CARD     RCH  RCH  K2                    K2        K2        K2    BKGRND       BOD       BOD      CONV     BOD2      BOD2      BOD2      CONV     BOD2
TYPE     NUM   ID  OPT                   "A"       "B"       "C"       SOD     DECAY      SETT   TO SOD    DECAY     DECAY      SETT   TO SOD    DECAY
                                                                   g/m²/d   per day       m/d             per day   per day       m/d             per day

COEF-1     1   BL  11 TEXAS            0.000     0.000     0.000     0.000     0.034     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     2   D1  15 LOUISIANA        0.000     0.000     0.000     0.500     0.080     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     3   BL  11 TEXAS            0.000     0.000     0.000     0.250     0.034     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     4   BL  11 TEXAS            0.000     0.000     0.000     0.250     0.031     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     5   BL  11 TEXAS            0.000     0.000     0.000     1.750     0.038     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     6   D2  15 LOUISIANA        0.000     0.000     0.000     0.500     0.080     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     7   BL  11 TEXAS            0.000     0.000     0.000     1.750     0.038     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     8   D3  15 LOUISIANA        0.000     0.000     0.000     0.500     0.080     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1     9   BL  11 TEXAS            0.000     0.000     0.000     1.750     0.038     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    10   BL  11 TEXAS            0.000     0.000     0.000     4.500     0.029     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    11   D4  15 LOUISIANA        0.000     0.000     0.000     0.500     0.080     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    12   BL  11 TEXAS            0.000     0.000     0.000     4.500     0.029     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    13   D5  15 LOUISIANA        0.000     0.000     0.000     0.500     0.080     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    14   BL  11 TEXAS            0.000     0.000     0.000     4.500     0.029     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    15   BL   3 OCONNER-DOBB     0.000     0.000     0.000     3.000     0.045     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    16   D6  15 LOUISIANA        0.000     0.000     0.000     0.500     0.080     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    17   BL   3 OCONNER-DOBB     0.000     0.000     0.000     3.000     0.045     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    18   D7  15 LOUISIANA        0.000     0.000     0.000     0.500     0.080     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    19   BL   3 OCONNER-DOBB     0.000     0.000     0.000     3.000     0.045     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    20   BL   3 OCONNER-DOBB     0.000     0.000     0.000     3.500     0.041     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    21   BB  11 TEXAS            0.000     0.000     0.000     2.000     0.070     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    22   D8  15 LOUISIANA        0.000     0.000     0.000     0.500     0.080     0.050     0.000     0.000     0.000     0.000     0.000     0.000
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COEF-1    23   BB  11 TEXAS            0.000     0.000     0.000     2.000     0.070     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    24   D9  15 LOUISIANA        0.000     0.000     0.000     0.500     0.080     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    25   BB  11 TEXAS            0.000     0.000     0.000     6.000     0.070     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    26   BB   3 OCONNER-DOBB     0.000     0.000     0.000     7.000     0.053     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    27   DA  15 LOUISIANA        0.000     0.000     0.000     0.500     0.080     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    28   BB   3 OCONNER-DOBB     0.000     0.000     0.000     7.000     0.053     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    29   DB  15 LOUISIANA        0.000     0.000     0.000     0.500     0.080     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    30   BB   3 OCONNER-DOBB     0.000     0.000     0.000     7.000     0.053     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    31   BB   3 OCONNER-DOBB     0.000     0.000     0.000     7.000     0.049     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    32   BL   3 OCONNER-DOBB     0.000     0.000     0.000     3.500     0.048     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    33   BL   3 OCONNER-DOBB     0.000     0.000     0.000     1.000     0.048     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    34   CB  11 TEXAS            0.000     0.000     0.000     6.000     0.069     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    35   DC  15 LOUISIANA        0.000     0.000     0.000     0.500     0.080     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    36   CB  11 TEXAS            0.000     0.000     0.000     6.000     0.069     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    37   CB   3 OCONNER-DOBB     0.000     0.000     0.000     6.000     0.052     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    38   CB   3 OCONNER-DOBB     0.000     0.000     0.000     0.000     0.054     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    39   BL   3 OCONNER-DOBB     0.000     0.000     0.000     1.000     0.051     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    40   BL   3 OCONNER-DOBB     0.000     0.000     0.000     1.500     0.051     0.050     0.000     0.000     0.000     0.000     0.000     0.000
COEF-1    41   BL   3 OCONNER-DOBB     0.000     0.000     0.000     0.000     0.063     0.050     0.000     0.000     0.000     0.000     0.000     0.000
ENDATA12

$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$

CARD TYPE      REACH  ID        NBOD      NBOD   ORGN CONV       NH3       NH3      PHOS     DENIT
                                 DECA      SETT  TO NH3 SRCE     DECA      SRCE      SRCE      RATE

COEF-2           1   BL       0.005     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           2   D1       0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           3   BL       0.005     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           4   BL       0.595     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           5   BL       0.041     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           6   D2       0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           7   BL       0.041     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           8   D3       0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2           9   BL       0.041     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          10   BL       0.070     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          11   D4       0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          12   BL       0.070     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          13   D5       0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          14   BL       0.070     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          15   BL       0.052     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          16   D6       0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          17   BL       0.052     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          18   D7       0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          19   BL       0.052     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          20   BL       0.089     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          21   BB       0.595     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          22   D8       0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          23   BB       0.595     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          24   D9       0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          25   BB       0.595     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          26   BB       0.106     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          27   DA       0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          28   BB       0.106     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          29   DB       0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          30   BB       0.106     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          31   BB       0.042     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          32   BL       0.129     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          33   BL       0.129     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          34   CB       0.136     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          35   DC       0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          36   CB       0.136     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          37   CB       0.054     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          38   CB       0.080     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          39   BL       0.064     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          40   BL       0.064     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          41   BL       0.101     0.050     0.000       0.000     0.000     0.000     0.000
ENDATA13

$$$ DATA TYPE 14 (ALGAE AND MACROPHYTE COEFFICIENTS) $$$

CARD TYPE      REACH  ID       SECCHI    ALGAE:     ALGAE    ALG CONV     ALGAE     ALGAE     MACRO     MACRO
                                DEPTH     CHL A      SETT     TO SOD      GROW      RESP      GROW      RESP   SHADING

ENDATA14

$$$ DATA TYPE 15 (COLIFORM AND NONCONSERVATIVE COEFFICIENTS) $$$

CARD TYPE      REACH  ID    COLIFORM       NCM       NCM    NCM CONV
                             DIE-OFF     DECAY      SETT     TO SOD

ENDATA15

$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$
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CARD TYPE	REACH	ID	OUTFLOW	INFLOW	TEMP	SALIN	CM-I	CM-II	IN/DIST	OUT/DIST
INCR-1	1	BL	0.00000	0.17996	20.85	0.01	5.60	51.60	1.79958	0.00000
INCR-1	2	D1	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	3	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	4	BL	0.00000	0.04188	21.28	0.00	5.50	56.00	0.00855	0.00000
INCR-1	5	BL	0.00000	0.04326	22.03	0.00	5.70	58.04	0.04807	0.00000
INCR-1	6	D2	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	7	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	8	D3	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	9	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	10	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	11	D4	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	12	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	13	D5	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	14	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	15	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	16	D6	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	17	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	18	D7	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	19	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	20	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	21	BB	0.00000	0.14751	21.66	0.00	10.40	95.61	1.47505	0.00000
INCR-1	22	D8	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	23	BB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	24	D9	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	25	BB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	26	BB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	27	DA	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	28	BB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	29	DB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	30	BB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	31	BB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	32	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	33	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	34	CB	0.00000	0.18882	23.25	0.14	22.50	286.90	0.62941	0.00000
INCR-1	35	DC	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	36	CB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	37	CB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	38	CB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	39	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	40	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	41	BL	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000

ENDATA16

$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE	REACH	ID	DO	BOD	NBOD			BOD#2
INCR-2	1	BL	5.23	1.53	0.00	0.00	0.00	0.00
INCR-2	2	D1	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	3	BL	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	4	BL	7.76	1.32	0.02	0.00	0.00	0.00
INCR-2	5	BL	8.27	2.39	0.39	0.00	0.00	0.00
INCR-2	6	D2	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	7	BL	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	8	D3	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	9	BL	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	10	BL	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	11	D4	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	12	BL	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	13	D5	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	14	BL	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	15	BL	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	16	D6	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	17	BL	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	18	D7	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	19	BL	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	20	BL	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	21	BB	2.72	2.68	0.05	0.00	0.00	0.00
INCR-2	22	D8	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	23	BB	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	24	D9	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	25	BB	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	26	BB	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	27	DA	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	28	BB	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	29	DB	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	30	BB	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	31	BB	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	32	BL	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	33	BL	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	34	CB	1.53	16.39	2.55	0.00	0.00	0.00

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INCR-2          35   DC        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          36   CB        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          37   CB        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          38   CB        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          39   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          40   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          41   BL        0.00      0.00      0.00      0.00      0.00      0.00
ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

ENDATA18

$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$

CARD TYPE      REACH  ID       BOD#1     NBOD       COLI       NCM        DO     BOD#2

NONPOINT         1   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         2   D1        0.06      0.02      0.00      0.00      0.00      0.00
NONPOINT         3   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         4   BL       25.00      5.00      0.00      0.00      0.00      0.00
NONPOINT         5   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         6   D2        0.03      0.01      0.00      0.00      0.00      0.00
NONPOINT         7   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         8   D3        0.05      0.01      0.00      0.00      0.00      0.00
NONPOINT         9   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        10   BL       50.00     26.00      0.00      0.00      0.00      0.00
NONPOINT        11   D4        0.01      0.00      0.00      0.00      0.00      0.00
NONPOINT        12   BL       85.00     26.00      0.00      0.00      0.00      0.00
NONPOINT        13   D5        0.05      0.01      0.00      0.00      0.00      0.00
NONPOINT        14   BL       50.00     26.00      0.00      0.00      0.00      0.00
NONPOINT        15   BL      250.00     90.00      0.00      0.00      0.00      0.00
NONPOINT        16   D6        0.04      0.01      0.00      0.00      0.00      0.00
NONPOINT        17   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        18   D7        0.04      0.01      0.00      0.00      0.00      0.00
NONPOINT        19   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        20   BL      150.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        21   BB        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        22   D8        0.10      0.03      0.00      0.00      0.00      0.00
NONPOINT        23   BB        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        24   D9        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        25   BB       25.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        26   BB        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        27   DA        0.03      0.01      0.00      0.00      0.00      0.00
NONPOINT        28   BB       35.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        29   DB        0.02      0.01      0.00      0.00      0.00      0.00
NONPOINT        30   BB       35.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        31   BB      390.00    200.00      0.00      0.00      0.00      0.00
NONPOINT        32   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        33   BL      200.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        34   CB        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        35   DC        0.03      0.01      0.00      0.00      0.00      0.00
NONPOINT        36   CB       65.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        37   CB      150.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        38   CB       50.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        39   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        40   BL     1500.00    500.00      0.00      0.00      0.00      0.00
NONPOINT        41   BL      200.00      0.00      0.00      0.00      0.00      0.00
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                  UNIT     FLOW      FLOW     TEMP    SALIN      CM-I     CM-II
                                                        m³/s       cfs   deg C      ppt      mg/L     uS/cm

HDWTR-1           1     BAYOU LACOMBE           0   0.09200     3.249   20.85     0.01     5.600    51.600   0.00
HDWTR-1          11     Ditch #1 Hwy 36 BL      0   0.00028     0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1         168     Ditch #2 SNG ditch      0   0.00028     0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1         192     Ditch#3Hwy434/I-12BL    0   0.00028     0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1         240     Ditch #4 Keller Barn    0   0.00028     0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1         276     Ditch#5 Beau Village    0   0.00028     0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1         341     Ditch #6 Hwy 190 BL     0   0.00028     0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1         373     Ditch#7 Hwy434/190BL    0   0.00028     0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1         426     Big Branch Bayou        0   0.00900     0.318   21.66     0.00    10.400    95.610   0.00
HDWTR-1         436     Dich#8Hwy434/I-12BBB    0   0.00028     0.010   21.66     0.00    10.400    95.610   0.00
HDWTR-1         521     Ditch #9 Folger         0   0.00028     0.010   21.66     0.00    10.400    95.610   0.00
HDWTR-1         564     Ditch A BerryTodd Rd    0   0.00028     0.010   21.66     0.00    10.400    95.610   0.00
HDWTR-1         595     Ditch B Hwy 190 BBB     0   0.00028     0.010   21.66     0.00    10.400    95.610   0.00
HDWTR-1         650     Cypress Bayou           0   0.02300     0.812   23.25     0.14    22.500   286.900   0.00
HDWTR-1         653     Ditch C Hwy 190 CB      0   0.00028     0.010   23.25     0.14    22.500   286.900   0.00
ENDATA20
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$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE	ELEMENT	NAME	DO mg/L	BOD#1 mg/L	NBOD mg/L	mg/L	mg/L	BOD#2 mg/L
HDWTR-2	1	BAYOU LACOMBE	5.23	1.53	0.00	0.00	0.00	0.00
HDWTR-2	11	Ditch #1 Hwy 36 BL	5.00	2.20	1.00	0.00	0.00	0.00
HDWTR-2	168	Ditch #2 SNG ditch	5.00	2.20	1.00	0.00	0.00	0.00
HDWTR-2	192	Ditch#3Hwy434/I-12BL	5.00	2.20	1.00	0.00	0.00	0.00
HDWTR-2	240	Ditch #4 Keller Barn	5.00	2.20	1.00	0.00	0.00	0.00
HDWTR-2	276	Ditch#5 Beau Village	5.00	2.20	1.00	0.00	0.00	0.00
HDWTR-2	341	Ditch #6 Hwy 190 BL	4.00	2.20	1.00	0.00	0.00	0.00
HDWTR-2	373	Ditch#7 Hwy434/190BL	4.00	2.20	1.00	0.00	0.00	0.00
HDWTR-2	426	Big Branch Bayou	2.72	2.68	0.05	0.00	0.00	0.00
HDWTR-2	436	Dich#8Hwy434/I-12BBB	4.00	2.20	1.00	0.00	0.00	0.00
HDWTR-2	521	Ditch #9 Folger	4.00	2.20	1.00	0.00	0.00	0.00
HDWTR-2	564	Ditch A BerryTodd Rd	4.00	2.20	1.00	0.00	0.00	0.00
HDWTR-2	595	Ditch B Hwy 190 BBB	4.00	2.20	1.00	0.00	0.00	0.00
HDWTR-2	650	Cypress Bayou	1.53	16.39	2.55	0.00	0.00	0.00
HDWTR-2	653	Ditch C Hwy 190 CB	4.00	2.20	1.00	0.00	0.00	0.00

ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE	ELEMENT	NAME	PHOS mg/L	CHL A mg/L	COLI mg/L	NCM mg/L

ENDATA22

$$$ DATA TYPE 23 (JUNCTION DATA) $$$

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME
JUNCTION	53	10	30.90	Hwy 36 ditch BL confluence with Bayou Lacombe
JUNCTION	189	167	19.40	Ditch #2-SNG Ditch confluence with Bayou Lacombe
JUNCTION	222	191	19.10	Ditch #3-Hwy 434/I-12 Ditch BL confluence with Bayou Lacombe
JUNCTION	249	239	17.30	Ditch #4-Keller Barn Ditch confluence with Bayou Lacombe
JUNCTION	306	275	14.60	Ditch #5-Beau Village Ditch confluence with Bayou Lacombe
JUNCTION	363	340	11.10	Ditch #6-Hwy 190 Ditch BL confluence with Bayou Lacombe
JUNCTION	395	372	11.00	Ditch #7-Hwy 434/190 Ditch BL confluence with Bayou Lacombe
JUNCTION	501	435	5.10	Ditch #8-Hwy 434/I-12 Ditch BBB confluence w/Big BranchBayou
JUNCTION	525	520	4.90	Ditch #9-Folger Ditch confluence with Big Branch Bayou
JUNCTION	584	563	1.90	Ditch A-Berry Todd Rd Ditch confluence with Big Branch Bayou
JUNCTION	608	594	0.80	Ditch B-Hwy 190 Ditch BBB confluence with Big Branch Bayou
JUNCTION	616	425	8.80	Big Branch Bayou confluence with Bayou Lacombe
JUNCTION	669	652	4.60	Ditch C-Hwy 190 Ditch CB confluence with Cypress Bayou
JUNCTION	715	649	6.30	Cypress Bayou confluence with Bayou Lacombe

ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE	ELEMENT	RKILO	NAME	FLOW m^3/s	FLOW cfs	FLOW MGD	TEMP deg C	SALIN ppt	CM-I mg/L	CM-II uS/cm
WSTLD-1	12	4.10	AI 138040 Animal Se	0.00018	0.00619	0.004	30.60	0.37	57.900	719.700
WSTLD-1	40	1.30	AI 120304 St Tamman	0.00011	0.00371	0.002	30.60	0.37	57.900	719.700
WSTLD-1	169	2.00	AI 94746 Southern N	0.00011	0.00387	0.002	30.60	0.37	57.900	719.700
WSTLD-1	196	2.60	AI 155402 Axonic Ne	0.00004	0.00155	0.001	30.60	0.37	57.900	719.700
WSTLD-1	206	1.60	Cluster1Hwy434I12BL	0.00022	0.00787	0.005	30.60	0.37	57.900	719.700
WSTLD-1	208	1.40	Cluster2Hwy434I12BL	0.00046	0.01618	0.010	30.60	0.37	57.900	719.700
WSTLD-1	223	19.00	Unnamed Tributary	0.00439	0.15498	0.100	21.85	0.02	7.400	62.600
WSTLD-1	241	0.80	AI 119164 St Tamman	0.00001	0.00022	0.000	30.60	0.37	57.900	719.700
WSTLD-1	272	15.00	AI 157591 Carmelite	0.00002	0.00077	0.000	30.60	0.37	57.900	719.700
WSTLD-1	277	2.90	AI 33916 WTSO Beau	0.00105	0.03713	0.024	30.60	0.37	57.900	719.700
WSTLD-1	325	12.70	AI 93344 US Fish &	0.00005	0.00173	0.001	30.60	0.37	57.900	719.700
WSTLD-1	342	2.10	AI 43023 Regina Coe	0.00009	0.00302	0.002	30.60	0.37	57.900	719.700
WSTLD-1	344	1.90	AI 40796 Janie Brow	0.00008	0.00271	0.002	30.60	0.37	57.900	719.700
WSTLD-1	349	1.40	Cluster 1 Hwy190 BL	0.00002	0.00059	0.000	30.60	0.37	57.900	719.700
WSTLD-1	350	1.30	Cluster 2 Hwy190 BL	0.00034	0.01199	0.008	30.60	0.37	57.900	719.700
WSTLD-1	352	1.10	Cluster 3 Hwy190 BL	0.00064	0.02271	0.015	30.60	0.37	57.900	719.700
WSTLD-1	353	1.00	Cluster 4 Hwy190 BL	0.00004	0.00138	0.001	30.60	0.37	57.900	719.700
WSTLD-1	354	0.90	AI 43406 Bayou Laco	0.00020	0.00712	0.005	30.60	0.37	57.900	719.700
WSTLD-1	358	0.50	Cluster 5 Hwy190 BL	0.00014	0.00496	0.003	30.60	0.37	57.900	719.700
WSTLD-1	360	0.30	Cluster 6 Hwy190 BL	0.00096	0.03403	0.022	30.60	0.37	57.900	719.700
WSTLD-1	374	2.10	AI 97944 Hwy 34 Min	0.00000	0.00003	0.000	30.60	0.37	57.900	719.700
WSTLD-1	390	0.50	AI 157861 Kingdom H	0.00003	0.00116	0.001	30.60	0.37	57.900	719.700
WSTLD-1	391	0.40	AI 119750 Highway 4	0.00001	0.00034	0.000	30.60	0.37	57.900	719.700
WSTLD-1	442	5.90	AI 165334 H2O Syste	0.00003	0.00108	0.001	30.60	0.37	57.900	719.700
WSTLD-1	464	3.70	AI 94173 Southeaste	0.00263	0.09282	0.060	30.60	0.37	57.900	719.700
WSTLD-1	522	0.30	AI 114220 Folger Co	0.00018	0.00619	0.004	30.60	0.37	57.900	719.700
WSTLD-1	565	1.90	AI 157509 Feather &	0.00245	0.08663	0.056	30.60	0.37	57.900	719.700
WSTLD-1	596	1.20	AI 156133 Python Co	0.00001	0.00019	0.000	30.60	0.37	57.900	719.700
WSTLD-1	602	0.60	AI 101375 OW Bayou	0.00000	0.00003	0.000	30.60	0.37	57.900	719.700

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WSTLD-1      651       4.80  AI 31079 Brier Lake    0.00153    0.05415    0.035   23.06     0.26    23.500   516.300
WSTLD-1      654       1.50  AI 127495 A to Z Pr    0.00007    0.00263    0.002   30.60     0.37    57.900   719.700
WSTLD-1      655       1.40  AI 123821 Kevin J S    0.00001    0.00031    0.000   30.60     0.37    57.900   719.700
WSTLD-1      660       0.90  AI 157767 St Tamman    0.00000    0.00003    0.000   30.60     0.37    57.900   719.700
WSTLD-1      661       0.80  AI 157892 Mottie Mc    0.00000    0.00006    0.000   30.60     0.37    57.900   719.700
WSTLD-1      663       0.60  AI 119584 Tiller of    0.00000    0.00016    0.000   30.60     0.37    57.900   719.700
WSTLD-1      674       4.10  AI 41881 ICO Corp      0.00000    0.00012    0.000   30.60     0.37    57.900   719.700
WSTLD-1      677       3.80  AI 117076 LA Pines     0.00022    0.00773    0.005   30.60     0.37    57.900   719.700
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                      % BOD                                  %
CARD TYPE     ELEMENT   NAME                            DO       BOD      RMVL     NBOD                NITRIF                BOD#2
                                                      mg/L      mg/L                mg/L      mg/L                 mg/L      mg/L

WSTLD-2          12     AI 138040 Animal Se          2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2          40     AI 120304 St Tamman          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         169     AI 94746 Southern N          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         196     AI 155402 Axonic Ne          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         206     Cluster1Hwy434I12BL          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         208     Cluster2Hwy434I12BL          2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         223     Unnamed Tributary            4.24      3.89      0.00      0.14      0.00      0.00      0.00      0.00
WSTLD-2         241     AI 119164 St Tamman          2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         272     AI 157591 Carmelite          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         277     AI 33916 WTSO Beau           2.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2         325     AI 93344 US Fish &           2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         342     AI 43023 Regina Coe          2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         344     AI 40796 Janie Brow          2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         349     Cluster 1 Hwy190 BL          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         350     Cluster 2 Hwy190 BL          2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         352     Cluster 3 Hwy190 BL          2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         353     Cluster 4 Hwy190 BL          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         354     AI 43406 Bayou Laco          2.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2         358     Cluster 5 Hwy190 BL          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         360     Cluster 6 Hwy190 BL          2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         374     AI 97944 Hwy 34 Min          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         390     AI 157861 Kingdom H          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         391     AI 119750 Highway 4          2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         442     AI 165334 H2O Syste          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         464     AI 94173 Southeaste          2.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2         522     AI 114220 Folger Co          2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         565     AI 157509 Feather &          2.00     57.50      0.00     86.00      0.00      0.00      0.00      0.00
WSTLD-2         596     AI 156133 Python Co          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         602     AI 101375 OW Bayou           2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         651     AI 31079 Brier Lake          2.39     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2         654     AI 127495 A to Z Pr          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         655     AI 123821 Kevin J S          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         660     AI 157767 St Tamman          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         661     AI 157892 Mottie Mc          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         663     AI 119584 Tiller of          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         674     AI 41881 ICO Corp            2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         677     AI 117076 LA Pines           2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
ENDATA25

$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                            PHOS     CHL A      COLI       NCM
                                                      mg/L      mg/L      mg/L      mg/L

ENDATA26

$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$

CARD TYPE    CONSTITUENT                     CONCENTRATION

LOWER BC     TEMPERATURE                        =     24.970     deg C
LOWER BC     SALINITY                           =      7.020     ppt
LOWER BC     CONSERVATIVE MATERIAL I (chloride) =   4128.000     mg/L
LOWER BC     CONSERVATIVE MATERIAL II (conduct) =  12216.000     uS/cm
LOWER BC     DISSOLVED OXYGEN                   =      7.140     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND     =      5.012     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND     =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                      =      8.300     µg/L
LOWER BC     NBOD                               =      1.166     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$

CARD TYPE     ELEMENT   NAME                  EQN      "A"       "B"       "H"

ENDATA28

$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$
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CARD TYPE        PARAMETER     COL 1     COL 2     COL 3     COL 4     COL 5     COL 6     COL 7     COL 8

SENSITIV          BASEFLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          VELOCITY      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          DEPTH         30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          DISPERSI      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          REAERATI      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          BOD DECA      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          BOD SETT      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          BOD2 DEC      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          BOD2 SET      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          TRANGE        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          NBOD DEC      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          NBOD SET      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          BENTHAL       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          TEMPERAT       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          SALINITY      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          CHLOR A       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          INC INFL      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          INC TEMP      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          INC DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          INC BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          INC BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          INC NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          HDW FLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          HDW TEMP      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          HDW DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          HDW BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          HDW BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          HDW NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          WSL FLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          WSL TEMP       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          WSL DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          WSL BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          WSL BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          WSL NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          OXR           30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          LBC TEMP       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          LBC DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          LBC BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          LBC BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          LBC CHLO      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          LBC NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          NPS BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          NPS BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV          NPS NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
ENDATA29

$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$


NUMBER OF PLOTS =  8
NUMBER OF REACHES IN PLOT 1 =  18
PLOT RCH  1  3  4  5  7  9 10 12 14 15 17 19 20 32 33 39 40 41
NUMBER OF REACHES IN PLOT 2 =   7
PLOT RCH 21 23 25 26 28 30 31
NUMBER OF REACHES IN PLOT 3 =   4
PLOT RCH 34 36 37 38
NUMBER OF REACHES IN PLOT 4 =   1
PLOT RCH 22
NUMBER OF REACHES IN PLOT 5 =   1
PLOT RCH 24
NUMBER OF REACHES IN PLOT 6 =   1
PLOT RCH 27
NUMBER OF REACHES IN PLOT 7 =   1
PLOT RCH 29
NUMBER OF REACHES IN PLOT 8 =   1
PLOT RCH 35
ENDATA30

$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$


OVERLAY 1 OVLBL.txt                        BAYOU LACOMBE
OVERLAY 2 OVLBBB.txt                       BIG BRANCH BAYOU
OVERLAY 3 OVLCB.txt                        CYPRESS BAYOU
OVERLAY 4 ovld8rch22.txt                   Hwy 434/I-12 ditch on BBB (D8, Rch 22)
OVERLAY 5 ovld9rch24.txt                   Folger ditch on BBB (D9, Rch 24)
OVERLAY 6 ovldarch27.txt                   Berry Todd Rd ditch on BBB (DA, Rch 27)
OVERLAY 7 ovldbrch29.txt                   Hwy 190 ditch on BBB (DB, Rch 29)
OVERLAY 8 ovldcrch35.txt                   Hwy 190 ditch on CB (DC, Rch 35)
ENDATA31
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     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
     .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12
     .....GRAPHICS DATA FOR PLOT 3 WRITTEN TO UNIT 13
     .....GRAPHICS DATA FOR PLOT 4 WRITTEN TO UNIT 14
     .....GRAPHICS DATA FOR PLOT 5 WRITTEN TO UNIT 15
     .....GRAPHICS DATA FOR PLOT 6 WRITTEN TO UNIT 16
     .....GRAPHICS DATA FOR PLOT 7 WRITTEN TO UNIT 17
     .....GRAPHICS DATA FOR PLOT 8 WRITTEN TO UNIT 18


FINAL REPORT    BAYOU LACOMBE                                   BAYOU LACOMBE WATERSHED MODEL
REACH NO.  1    BL01 TO Hwy 36 Ditch BL                         CALIBRATION

 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

    1  HDWTR     0.09200   20.85     0.01     5.60    51.60   5.23   1.53   0.00   1.53   0.00   0.00   0.00   0.00   0.00   0.00     0.00    0.00
 EACH  INCR      0.01800   20.85     0.01     5.60    51.60   5.23   1.53   0.00                  0.00   0.00   0.00   0.00    0.00     0.00

 ************************************************** HYDRAULIC PARAMETER VALUES **************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
  NO.    DIST    DIST               EFF     VELO      TIME                                  AREA    AREA     PRISM    VELO               VELO
          km      km        m³/s             m/s      days       m       m        m³         m²      m²        m³     m/s      m²/s     m/s

    1   31.00   30.99    0.11000   0.0   0.04749      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.047
    2   30.99   30.98    0.12799   0.0   0.05526      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.055
    3   30.98   30.97    0.14599   0.0   0.06303      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.063
    4   30.97   30.96    0.16398   0.0   0.07080      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.071
    5   30.96   30.95    0.18198   0.0   0.07857      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.079
    6   30.95   30.94    0.19998   0.0   0.08635      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.086
    7   30.94   30.93    0.21797   0.0   0.09412      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.094
    8   30.93   30.92    0.23597   0.0   0.10189      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.102
    9   30.92   30.91    0.25396   0.0   0.10966      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.110
   10   30.91   30.90    0.27196   0.0   0.11743      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.117

  TOT                                               0.02                      231.60     579.00
  AVG                                     0.0760            0.40    5.79                          2.32
  CUM                                               0.02

 ********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************

 ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN    NH3   NH3  DENIT   PO4   ALG   MAC  COLI    NCM    NCM
 NO.     DIST  D.O.    RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
               mg/L    1/da   1/da  1/da   1/da   1/da  1/da   1/da     *     *     *    1/da  1/da   1/da     *    1/da     *    **    **   1/da   1/da   1/da

   1  30.990  8.94    1.93   0.04  0.05   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.00  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
   2  30.980  8.94    2.01   0.04  0.05   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.00  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
   3  30.970  8.94    2.09   0.04  0.05   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.00  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
   4  30.960  8.94    2.15   0.04  0.05   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.00  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
   5  30.950  8.94    2.22   0.04  0.05   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.00  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
   6  30.940  8.94    2.27   0.04  0.05   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.00  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
   7  30.930  8.94    2.33   0.04  0.05   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.00  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
   8  30.920  8.94    2.38   0.04  0.05   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.00  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
   9  30.910  8.94    2.43   0.04  0.05   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.00  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
  10  30.900  8.94    2.47   0.04  0.05   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.00  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00

 AVG 20 DEG C RATE     2.19   0.03  0.05   0.00   0.00  0.00   0.00  0.00               0.00  0.05   0.00  0.00   0.00  0.00               0.00   0.00   0.00

 *   g/m²/d            **   mg/L/day

 ********************************************** WATER QUALITY CONSTITUENT VALUES **********************************************

 ELEM  ENDING   TEMP  SALN chloride  conduct    DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   TOTN   PHOS  CHL A   MACRO     COLI     NCM
 NO.     DIST  DEG C   PPT     mg/L    uS/cm  mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L    g/m³  #/100mL

   1  30.990  20.85  0.01     5.60    51.60  5.26   1.53   0.00   1.53   0.00   0.00   0.00   0.00   0.00   0.00   0.00    0.00       0.    0.00
   2  30.980  20.85  0.01     5.60    51.60  5.27   1.53   0.00   1.53   0.00   0.00   0.00   0.00   0.00   0.00   0.00    0.00       0.    0.00
   3  30.970  20.85  0.01     5.60    51.60  5.28   1.53   0.00   1.53   0.00   0.00   0.00   0.00   0.00   0.00   0.00    0.00       0.    0.00
   4  30.960  20.85  0.01     5.60    51.60  5.28   1.53   0.00   1.53   0.00   0.00   0.00   0.00   0.00   0.00   0.00    0.00       0.    0.00
   5  30.950  20.85  0.01     5.60    51.60  5.29   1.53   0.00   1.53   0.00   0.00   0.00   0.00   0.00   0.00   0.00    0.00       0.    0.00
   6  30.940  20.85  0.01     5.60    51.60  5.29   1.53   0.00   1.53   0.00   0.00   0.00   0.00   0.00   0.00   0.00    0.00       0.    0.00
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7	30.930	20.85	0.01	5.60	51.60	5.30	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
8	30.920	20.85	0.01	5.60	51.61	5.30	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
9	30.910	20.85	0.01	5.60	51.62	5.31	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
10	30.900	20.85	0.01	5.60	51.65	5.32	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 3 Hwy 36 Ditch BL to BL02 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
53	UPR RCH	0.27196	20.85	0.01	5.60	51.65	5.32	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	TRIB	0.00056	20.85	0.19	31.77	385.95	8.11	28.99	0.00	28.99	0.00	24.93	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
53	30.90	30.80	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
54	30.80	30.70	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
55	30.70	30.60	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
56	30.60	30.50	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
57	30.50	30.40	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
58	30.40	30.30	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
59	30.30	30.20	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
60	30.20	30.10	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
61	30.10	30.00	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
62	30.00	29.90	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
63	29.90	29.80	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
64	29.80	29.70	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
65	29.70	29.60	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
66	29.60	29.50	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
67	29.50	29.40	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
68	29.40	29.30	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
69	29.30	29.20	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
70	29.20	29.10	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
71	29.10	29.00	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
72	29.00	28.90	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
73	28.90	28.80	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
74	28.80	28.70	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
75	28.70	28.60	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
76	28.60	28.50	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
77	28.50	28.40	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
78	28.40	28.30	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
79	28.30	28.20	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
80	28.20	28.10	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
81	28.10	28.00	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
82	28.00	27.90	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
83	27.90	27.80	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
84	27.80	27.70	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
85	27.70	27.60	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
86	27.60	27.50	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
87	27.50	27.40	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
88	27.40	27.30	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
89	27.30	27.20	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
90	27.20	27.10	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
91	27.10	27.00	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
92	27.00	26.90	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
93	26.90	26.80	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
94	26.80	26.70	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
95	26.70	26.60	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
96	26.60	26.50	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
97	26.50	26.40	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
98	26.40	26.30	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
99	26.30	26.20	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
100	26.20	26.10	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
101	26.10	26.00	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
102	26.00	25.90	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
103	25.90	25.80	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
104	25.80	25.70	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
105	25.70	25.60	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
106	25.60	25.50	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
107	25.50	25.40	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
108	25.40	25.30	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
109	25.30	25.20	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
TOT						0.56			13201.19	33003.00					

AVG					0.1177				0.40	5.79									2.32				
CUM								0.58															

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
53	30.800	8.94	2.47	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	30.700	8.94	2.47	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	30.600	8.94	2.47	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	30.500	8.93	2.47	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	30.400	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	30.300	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	30.200	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	30.100	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	30.000	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62	29.900	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	29.800	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	29.700	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	29.600	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66	29.500	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67	29.400	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	29.300	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	29.200	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	29.100	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	29.000	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72	28.900	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	28.800	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	28.700	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	28.600	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	28.500	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	28.400	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	28.300	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	28.200	8.90	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	28.100	8.90	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81	28.000	8.90	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82	27.900	8.90	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	27.800	8.90	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	27.700	8.90	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	27.600	8.90	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	27.500	8.90	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	27.400	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	27.300	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	27.200	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	27.100	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	27.000	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	26.900	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	26.800	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	26.700	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	26.600	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	26.500	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	26.400	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	26.300	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	26.200	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	26.100	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	26.000	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	25.900	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	25.800	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	25.700	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	25.600	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	25.500	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	25.400	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	25.300	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	25.200	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.43	0.03	0.05	0.00	0.00	0.00	0.00	0.25			0.00	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
53	30.800	20.86	0.01	5.65	52.29	5.40	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
54	30.700	20.87	0.01	5.65	52.29	5.47	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
55	30.600	20.87	0.01	5.65	52.29	5.55	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
56	30.500	20.88	0.01	5.65	52.29	5.62	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
57	30.400	20.89	0.01	5.65	52.29	5.70	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
58	30.300	20.90	0.01	5.65	52.29	5.77	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

59	30.200	20.90	0.01	5.65	52.29	5.83	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
60	30.100	20.91	0.01	5.65	52.29	5.90	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
61	30.000	20.92	0.01	5.65	52.29	5.97	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
62	29.900	20.93	0.01	5.65	52.29	6.03	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
63	29.800	20.93	0.01	5.65	52.29	6.09	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
64	29.700	20.94	0.01	5.65	52.29	6.15	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
65	29.600	20.95	0.01	5.65	52.29	6.21	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
66	29.500	20.96	0.01	5.65	52.29	6.27	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
67	29.400	20.96	0.01	5.65	52.29	6.32	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
68	29.300	20.97	0.01	5.65	52.29	6.38	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
69	29.200	20.98	0.01	5.65	52.29	6.43	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
70	29.100	20.99	0.01	5.65	52.29	6.48	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
71	29.000	20.99	0.01	5.65	52.29	6.54	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
72	28.900	21.00	0.01	5.65	52.29	6.59	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
73	28.800	21.01	0.01	5.65	52.29	6.63	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
74	28.700	21.02	0.01	5.65	52.29	6.68	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
75	28.600	21.02	0.01	5.65	52.29	6.73	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
76	28.500	21.03	0.01	5.65	52.29	6.77	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
77	28.400	21.04	0.01	5.65	52.29	6.82	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
78	28.300	21.05	0.01	5.65	52.29	6.86	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
79	28.200	21.05	0.01	5.65	52.29	6.90	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
80	28.100	21.06	0.01	5.65	52.29	6.94	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
81	28.000	21.07	0.01	5.65	52.29	6.98	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
82	27.900	21.08	0.01	5.65	52.29	7.02	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
83	27.800	21.08	0.01	5.65	52.29	7.06	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
84	27.700	21.09	0.01	5.65	52.29	7.09	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
85	27.600	21.10	0.01	5.65	52.29	7.13	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
86	27.500	21.11	0.01	5.65	52.29	7.17	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
87	27.400	21.11	0.01	5.65	52.29	7.20	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
88	27.300	21.12	0.01	5.65	52.29	7.23	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
89	27.200	21.13	0.01	5.65	52.29	7.27	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
90	27.100	21.14	0.01	5.65	52.29	7.30	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
91	27.000	21.14	0.01	5.65	52.29	7.33	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
92	26.900	21.15	0.01	5.65	52.29	7.36	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
93	26.800	21.16	0.01	5.65	52.29	7.39	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
94	26.700	21.17	0.01	5.65	52.29	7.42	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
95	26.600	21.17	0.01	5.65	52.29	7.45	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
96	26.500	21.18	0.01	5.65	52.29	7.47	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
97	26.400	21.19	0.01	5.65	52.29	7.50	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
98	26.300	21.20	0.01	5.65	52.29	7.53	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
99	26.200	21.20	0.01	5.65	52.29	7.55	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
100	26.100	21.21	0.01	5.65	52.29	7.58	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
101	26.000	21.22	0.01	5.65	52.29	7.60	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
102	25.900	21.23	0.01	5.65	52.29	7.62	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
103	25.800	21.23	0.01	5.65	52.29	7.65	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
104	25.700	21.24	0.01	5.65	52.29	7.67	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
105	25.600	21.25	0.01	5.65	52.29	7.69	1.51	0.00	1.51	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
106	25.500	21.26	0.01	5.65	52.29	7.71	1.51	0.00	1.51	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
107	25.400	21.26	0.01	5.65	52.29	7.73	1.51	0.00	1.51	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
108	25.300	21.27	0.01	5.65	52.29	7.75	1.51	0.00	1.51	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
109	25.200	21.28	0.01	5.65	52.29	7.77	1.51	0.00	1.51	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 4 BL02 to BL03 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
110	UPR RCH	0.27252	21.28	0.01	5.65	52.29	7.77	1.51	0.00	1.51	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
EACH	INCR	0.00085	21.28	0.00	5.50	56.00	7.76	1.32	0.00			0.02	0.00	0.00	0.00	0.00	0.00	

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
110	25.20	25.10	0.27337	0.1	0.24897	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.249
111	25.10	25.00	0.27423	0.1	0.24975	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.250
112	25.00	24.90	0.27508	0.1	0.25053	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.251
113	24.90	24.80	0.27594	0.1	0.25131	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.251
114	24.80	24.70	0.27679	0.1	0.25209	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.252
115	24.70	24.60	0.27765	0.1	0.25287	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.253
116	24.60	24.50	0.27850	0.1	0.25365	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.254
117	24.50	24.40	0.27936	0.1	0.25442	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.254
118	24.40	24.30	0.28021	0.1	0.25520	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.255
119	24.30	24.20	0.28107	0.1	0.25598	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.256
120	24.20	24.10	0.28192	0.1	0.25676	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.257
121	24.10	24.00	0.28278	0.1	0.25754	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.258

122	24.00	23.90	0.28363	0.1	0.25832	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.258
123	23.90	23.80	0.28449	0.1	0.25909	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.259
124	23.80	23.70	0.28534	0.1	0.25987	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.260
125	23.70	23.60	0.28619	0.1	0.26065	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.261
126	23.60	23.50	0.28705	0.1	0.26143	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.261
127	23.50	23.40	0.28790	0.1	0.26221	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.262
128	23.40	23.30	0.28876	0.1	0.26299	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.263
129	23.30	23.20	0.28961	0.1	0.26376	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.264
130	23.20	23.10	0.29047	0.1	0.26454	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.265
131	23.10	23.00	0.29132	0.1	0.26532	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.265
132	23.00	22.90	0.29218	0.1	0.26610	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.266
133	22.90	22.80	0.29303	0.1	0.26688	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.267
134	22.80	22.70	0.29389	0.1	0.26766	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.268
135	22.70	22.60	0.29474	0.1	0.26844	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.268
136	22.60	22.50	0.29560	0.1	0.26921	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.269
137	22.50	22.40	0.29645	0.1	0.26999	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.270
138	22.40	22.30	0.29731	0.1	0.27077	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.271
139	22.30	22.20	0.29816	0.1	0.27155	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.272
140	22.20	22.10	0.29902	0.1	0.27233	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.272
141	22.10	22.00	0.29987	0.1	0.27311	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.273
142	22.00	21.90	0.30072	0.1	0.27388	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.274
143	21.90	21.80	0.30158	0.1	0.27466	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.275
144	21.80	21.70	0.30243	0.1	0.27544	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.275
145	21.70	21.60	0.30329	0.1	0.27622	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.276
146	21.60	21.50	0.30414	0.1	0.27700	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.277
147	21.50	21.40	0.30500	0.1	0.27778	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.278
148	21.40	21.30	0.30585	0.1	0.27855	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.279
149	21.30	21.20	0.30671	0.1	0.27933	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.279
150	21.20	21.10	0.30756	0.1	0.28011	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.280
151	21.10	21.00	0.30842	0.1	0.28089	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.281
152	21.00	20.90	0.30927	0.1	0.28167	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.282
153	20.90	20.80	0.31013	0.1	0.28245	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.282
154	20.80	20.70	0.31098	0.1	0.28322	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.283
155	20.70	20.60	0.31184	0.1	0.28400	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.284
156	20.60	20.50	0.31269	0.1	0.28478	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.285
157	20.50	20.40	0.31355	0.1	0.28556	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.286
158	20.40	20.30	0.31440	0.1	0.28634	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.286
TOT						0.21			5380.20	29890.00					
AVG					0.2672		0.18	6.10			1.10				
CUM						0.79									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
110	25.100	8.86	6.25	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	25.000	8.86	6.26	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	24.900	8.86	6.27	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	24.800	8.85	6.27	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	24.700	8.85	6.28	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	24.600	8.85	6.29	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	24.500	8.85	6.29	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	24.400	8.84	6.30	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	24.300	8.84	6.31	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	24.200	8.84	6.32	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	24.100	8.84	6.32	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	24.000	8.83	6.33	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	23.900	8.83	6.34	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	23.800	8.83	6.34	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	23.700	8.83	6.35	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	23.600	8.82	6.36	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	23.500	8.82	6.37	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	23.400	8.82	6.37	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	23.300	8.82	6.38	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	23.200	8.81	6.39	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	23.100	8.81	6.39	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	23.000	8.81	6.40	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	22.900	8.81	6.41	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	22.800	8.80	6.41	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	22.700	8.80	6.42	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	22.600	8.80	6.43	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	22.500	8.79	6.44	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	22.400	8.79	6.44	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	22.300	8.79	6.45	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	22.200	8.79	6.46	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	22.100	8.78	6.46	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	22.000	8.78	6.47	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	21.900	8.78	6.48	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	21.800	8.78	6.48	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	21.700	8.77	6.49	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

145	21.600	8.77	6.50	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	21.500	8.77	6.50	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	21.400	8.77	6.51	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	21.300	8.76	6.52	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	21.200	8.76	6.53	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	21.100	8.76	6.53	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	21.000	8.76	6.54	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	20.900	8.75	6.55	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	20.800	8.75	6.55	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	20.700	8.75	6.56	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	20.600	8.75	6.57	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	20.500	8.74	6.57	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157	20.400	8.74	6.58	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	20.300	8.74	6.59	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.21	0.03	0.05	0.00	0.00	0.00	0.00	0.25			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
110	25.100	21.30	0.01	5.65	52.30	7.79	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
111	25.000	21.31	0.01	5.65	52.31	7.82	1.55	0.00	1.55	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
112	24.900	21.33	0.01	5.65	52.32	7.84	1.57	0.00	1.57	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
113	24.800	21.34	0.01	5.65	52.33	7.86	1.59	0.00	1.59	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
114	24.700	21.36	0.01	5.65	52.34	7.88	1.61	0.00	1.61	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
115	24.600	21.37	0.01	5.65	52.36	7.90	1.63	0.00	1.63	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
116	24.500	21.39	0.01	5.65	52.37	7.92	1.65	0.00	1.65	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
117	24.400	21.40	0.01	5.65	52.38	7.94	1.67	0.00	1.67	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
118	24.300	21.42	0.01	5.65	52.39	7.95	1.69	0.00	1.69	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
119	24.200	21.43	0.01	5.65	52.40	7.97	1.71	0.00	1.71	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
120	24.100	21.45	0.01	5.65	52.41	7.99	1.73	0.00	1.73	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
121	24.000	21.46	0.01	5.65	52.42	8.00	1.75	0.00	1.75	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
122	23.900	21.48	0.01	5.65	52.43	8.02	1.77	0.00	1.77	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
123	23.800	21.49	0.01	5.65	52.44	8.03	1.78	0.00	1.78	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
124	23.700	21.51	0.01	5.65	52.45	8.05	1.80	0.00	1.80	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
125	23.600	21.52	0.01	5.65	52.47	8.06	1.82	0.00	1.82	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
126	23.500	21.54	0.01	5.65	52.48	8.07	1.84	0.00	1.84	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
127	23.400	21.56	0.01	5.65	52.49	8.08	1.86	0.00	1.86	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
128	23.300	21.57	0.01	5.65	52.50	8.10	1.88	0.00	1.88	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
129	23.200	21.59	0.01	5.64	52.51	8.11	1.89	0.00	1.89	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
130	23.100	21.60	0.01	5.64	52.52	8.12	1.91	0.00	1.91	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
131	23.000	21.62	0.01	5.64	52.53	8.13	1.93	0.00	1.93	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
132	22.900	21.63	0.01	5.64	52.54	8.14	1.95	0.00	1.95	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
133	22.800	21.65	0.01	5.64	52.55	8.15	1.96	0.00	1.96	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
134	22.700	21.66	0.01	5.64	52.56	8.16	1.98	0.00	1.98	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
135	22.600	21.68	0.01	5.64	52.57	8.17	2.00	0.00	2.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
136	22.500	21.69	0.01	5.64	52.58	8.18	2.02	0.00	2.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
137	22.400	21.71	0.01	5.64	52.59	8.18	2.03	0.00	2.03	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
138	22.300	21.72	0.01	5.64	52.60	8.19	2.05	0.00	2.05	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
139	22.200	21.74	0.01	5.64	52.61	8.20	2.07	0.00	2.07	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
140	22.100	21.75	0.01	5.64	52.62	8.21	2.08	0.00	2.08	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
141	22.000	21.77	0.01	5.64	52.63	8.21	2.10	0.00	2.10	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
142	21.900	21.79	0.01	5.64	52.64	8.22	2.12	0.00	2.12	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
143	21.800	21.80	0.01	5.64	52.65	8.23	2.13	0.00	2.13	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
144	21.700	21.82	0.01	5.64	52.65	8.23	2.15	0.00	2.15	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
145	21.600	21.83	0.01	5.64	52.66	8.24	2.17	0.00	2.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
146	21.500	21.85	0.01	5.64	52.67	8.24	2.18	0.00	2.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
147	21.400	21.86	0.01	5.64	52.68	8.25	2.20	0.00	2.20	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
148	21.300	21.88	0.01	5.64	52.69	8.25	2.22	0.00	2.22	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
149	21.200	21.89	0.01	5.64	52.70	8.26	2.23	0.00	2.23	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
150	21.100	21.91	0.01	5.64	52.71	8.26	2.25	0.00	2.25	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
151	21.000	21.92	0.01	5.64	52.72	8.27	2.26	0.00	2.26	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
152	20.900	21.94	0.01	5.64	52.73	8.27	2.28	0.00	2.28	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
153	20.800	21.95	0.01	5.64	52.74	8.28	2.29	0.00	2.29	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
154	20.700	21.97	0.01	5.63	52.75	8.28	2.31	0.00	2.31	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
155	20.600	21.98	0.01	5.63	52.76	8.28	2.33	0.00	2.33	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
156	20.500	22.00	0.01	5.63	52.76	8.29	2.34	0.00	2.34	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
157	20.400	22.01	0.01	5.63	52.77	8.29	2.36	0.00	2.36	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
158	20.300	22.03	0.01	5.63	52.78	8.29	2.37	0.00	2.37	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 5 BL03 to SNG Ditch CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM

159	UPR RCH	0.31440	22.03	0.01	5.63	52.78	8.29	2.37	0.00	2.37	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
EACH	INCR	0.00481	22.03	0.00	5.70	58.04	8.27	2.39	0.00			0.39	0.00	0.00	0.00	0.00	0.00	

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
159	20.30	20.20	0.31921	0.1	0.26225	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.262
160	20.20	20.10	0.32401	0.1	0.26620	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.266
161	20.10	20.00	0.32882	0.1	0.27014	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.270
162	20.00	19.90	0.33363	0.1	0.27409	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.274
163	19.90	19.80	0.33843	0.1	0.27804	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.278
164	19.80	19.70	0.34324	0.1	0.28199	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.282
165	19.70	19.60	0.34805	0.1	0.28594	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.286
166	19.60	19.50	0.35285	0.1	0.28989	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.290
167	19.50	19.40	0.35766	0.1	0.29384	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.294
TOT						0.04			1095.48	6444.00					
AVG					0.2777		0.17	7.16			1.22				
CUM						0.83									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
159	20.200	8.74	6.77	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	20.100	8.74	6.80	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	20.000	8.74	6.82	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	19.900	8.74	6.85	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163	19.800	8.74	6.88	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	19.700	8.74	6.90	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	19.600	8.74	6.93	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	19.500	8.74	6.96	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167	19.400	8.74	6.98	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.61	0.04	0.05	0.00	0.00	0.00	0.00	1.75			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
159	20.200	22.03	0.01	5.63	52.86	8.26	2.37	0.00	2.37	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
160	20.100	22.03	0.01	5.64	52.94	8.22	2.37	0.00	2.37	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
161	20.000	22.03	0.01	5.64	53.01	8.19	2.37	0.00	2.37	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
162	19.900	22.03	0.01	5.64	53.09	8.15	2.37	0.00	2.37	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
163	19.800	22.03	0.01	5.64	53.16	8.12	2.37	0.00	2.37	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
164	19.700	22.03	0.01	5.64	53.22	8.10	2.37	0.00	2.37	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
165	19.600	22.03	0.01	5.64	53.29	8.07	2.37	0.00	2.37	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
166	19.500	22.03	0.01	5.64	53.36	8.04	2.37	0.00	2.37	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
167	19.400	22.03	0.01	5.64	53.42	8.02	2.37	0.00	2.37	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 7 SNG Ditch to Hwy434/I-12 Dich BL CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
189	UPR RCH	0.35766	22.03	0.01	5.64	53.42	8.02	2.37	0.00	2.37	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
189	TRIB	0.00039	22.03	0.11	20.30	239.42	7.88	21.04	0.00	21.04	0.00	14.81	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
189	19.40	19.30	0.35805	0.1	0.29416	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.294
190	19.30	19.20	0.35805	0.1	0.29416	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.294

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 191   19.20   19.10    0.35805   0.1   0.29416     0.00    0.17    7.16    121.72     716.00    1.22      0.00   0.000     0.500   0.294

 TOT                                                0.01                    365.16    2148.00
 AVG                                       0.2942            0.17    7.16                        1.22
 CUM                                                0.84

 ********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************

 ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN    NH3   NH3  DENIT   PO4   ALG   MAC   COLI    NCM    NCM
 NO.     DIST  D.O.    RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
                mg/L    1/da   1/da  1/da   1/da   1/da  1/da   1/da     *     *     *   1/da  1/da   1/da     *   1/da     *    **    **   1/da   1/da   1/da

 189   19.300  8.74    6.98   0.04  0.05   0.00   0.00  0.00   0.00  1.99  1.99  1.99   0.05  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
 190   19.200  8.74    6.98   0.04  0.05   0.00   0.00  0.00   0.00  1.99  1.99  1.99   0.05  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
 191   19.100  8.74    6.98   0.04  0.05   0.00   0.00  0.00   0.00  1.99  1.99  1.99   0.05  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00

 AVG 20 DEG C RATE     6.71   0.04  0.05   0.00   0.00  0.00   0.00  1.75               0.04  0.05   0.00  0.00   0.00  0.00                0.00   0.00   0.00

 *   g/m²/d            **   mg/L/day

 ************************************************ WATER QUALITY CONSTITUENT VALUES ************************************************

 ELEM  ENDING   TEMP  SALN chloride  conduct    DO   BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   TOTN   PHOS  CHL A   MACRO     COLI     NCM
 NO.     DIST  DEG C   PPT     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L    g/m³  #/100mL

 189   19.300  22.03  0.01     5.66    53.62   7.99   2.39   0.00   2.39   0.00   0.25   0.00   0.00   0.00   0.00   0.00    0.00       0.    0.00
 190   19.200  22.03  0.01     5.66    53.62   7.97   2.38   0.00   2.38   0.00   0.25   0.00   0.00   0.00   0.00   0.00    0.00       0.    0.00
 191   19.100  22.03  0.01     5.66    53.64   7.94   2.39   0.00   2.39   0.00   0.25   0.00   0.00   0.00   0.00   0.00    0.00       0.    0.00


FINAL REPORT    BAYOU LACOMBE                                   BAYOU LACOMBE WATERSHED MODEL
REACH NO.  9    Hwy434/I-12DitchBL to BL04                      CALIBRATION

 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

  222  UPR RCH   0.35805   22.03     0.01     5.66    53.64   7.94   2.39   0.00   2.39   0.00   0.25   0.00   0.00   0.00   0.00     0.00    0.00
  222  TRIB      0.00100   22.03     0.27    43.33   533.56   7.84  51.90   0.00  51.90   0.00  43.08   0.00   0.00   0.00   0.00     0.00    0.00
  223  WSTLD     0.00439   21.85     0.02     7.40    62.60   4.24   3.89   0.00   3.89   0.00   0.14   0.00   0.00   0.00   0.00     0.00    0.00

 ************************************************* HYDRAULIC PARAMETER VALUES *************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
 NO.     DIST    DIST               EFF     VELO      TIME                                  AREA    AREA     PRISM    VELO               VELO
          km      km         m³/s            m/s      days       m       m        m³        m²      m²        m³     m/s      m²/s     m/s

  222   19.10   19.00    0.35906   0.3   0.29498      0.00    0.17    7.16    121.72     716.00    1.22      0.00   0.000     0.500   0.295
  223   19.00   18.90    0.36344   1.5   0.29859      0.00    0.17    7.16    121.72     716.00    1.22      0.00   0.000     0.500   0.299

  TOT                                                0.01                    243.44    1432.00
  AVG                                       0.2968            0.17    7.16                        1.22
  CUM                                                0.85

 ********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************

 ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN    NH3   NH3  DENIT   PO4   ALG   MAC   COLI    NCM    NCM
 NO.     DIST  D.O.    RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
                mg/L    1/da   1/da  1/da   1/da   1/da  1/da   1/da     *     *     *   1/da  1/da   1/da     *   1/da     *    **    **   1/da   1/da   1/da

 222   19.000  8.69    7.03   0.04  0.05   0.00   0.00  0.00   0.00  2.03  2.03  2.03   0.05  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
 223   18.900  8.64    7.10   0.04  0.05   0.00   0.00  0.00   0.00  2.07  2.07  2.07   0.05  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00

 AVG 20 DEG C RATE     6.73   0.04  0.05   0.00   0.00  0.00   0.00  1.75               0.04  0.05   0.00  0.00   0.00  0.00                0.00   0.00   0.00

 *   g/m²/d            **   mg/L/day

 ************************************************ WATER QUALITY CONSTITUENT VALUES ************************************************

 ELEM  ENDING   TEMP  SALN chloride  conduct    DO   BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   TOTN   PHOS  CHL A   MACRO     COLI     NCM
 NO.     DIST  DEG C   PPT     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L    g/m³  #/100mL

 222   19.000  22.33  0.01     5.76    54.97   7.92   2.52   0.00   2.52   0.00   0.37   0.00   0.00   0.00   0.00   0.00    0.00       0.    0.00
 223   18.900  22.64  0.01     5.78    55.06   7.84   2.54   0.00   2.54   0.00   0.37   0.00   0.00   0.00   0.00   0.00    0.00       0.    0.00


FINAL REPORT    BAYOU LACOMBE                                   BAYOU LACOMBE WATERSHED MODEL
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REACH NO. 10 BL04 to Keller Barn Ditch CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
224	UPR RCH	0.36344	22.64	0.01	5.78	55.06	7.84	2.54	0.00	2.54	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
224	18.90	18.80	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	35.34	0.000	0.500	0.093
225	18.80	18.70	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	70.68	0.000	0.500	0.093
226	18.70	18.60	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	106.02	0.001	0.500	0.093
227	18.60	18.50	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	141.36	0.001	0.500	0.093
228	18.50	18.40	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	176.70	0.001	0.500	0.093
229	18.40	18.30	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	212.04	0.001	0.500	0.093
230	18.30	18.20	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	247.38	0.001	0.500	0.093
231	18.20	18.10	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	282.72	0.002	0.500	0.093
232	18.10	18.00	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	318.06	0.002	0.500	0.093
233	18.00	17.90	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	353.40	0.002	0.500	0.093
234	17.90	17.80	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	388.74	0.002	0.500	0.093
235	17.80	17.70	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	424.08	0.002	0.500	0.093
236	17.70	17.60	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	459.42	0.003	0.500	0.093
237	17.60	17.50	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	494.76	0.003	0.500	0.093
238	17.50	17.40	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	530.10	0.003	0.500	0.093
239	17.40	17.30	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	565.44	0.003	0.500	0.093
TOT						0.20			6249.60	14880.00					
AVG					0.0930		0.42	9.30			3.91				
CUM						1.04									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
224	18.800	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225	18.700	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
226	18.600	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
227	18.500	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
228	18.400	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
229	18.300	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
230	18.200	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
231	18.100	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
232	18.000	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
233	17.900	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
234	17.800	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
235	17.700	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
236	17.600	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
237	17.500	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
238	17.400	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
239	17.300	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.18	0.03	0.05	0.00	0.00	0.00	0.00	4.50			0.07	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
224	18.800	22.64	0.01	5.78	55.06	7.71	2.64	0.00	2.64	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
225	18.700	22.64	0.01	5.78	55.06	7.58	2.74	0.00	2.74	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
226	18.600	22.64	0.01	5.78	55.06	7.46	2.83	0.00	2.83	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
227	18.500	22.64	0.01	5.78	55.06	7.33	2.93	0.00	2.93	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
228	18.400	22.64	0.01	5.78	55.06	7.22	3.02	0.00	3.02	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
229	18.300	22.64	0.01	5.78	55.06	7.10	3.12	0.00	3.12	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
230	18.200	22.64	0.01	5.78	55.06	6.99	3.22	0.00	3.22	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
231	18.100	22.64	0.01	5.78	55.06	6.88	3.31	0.00	3.31	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
232	18.000	22.64	0.01	5.78	55.06	6.77	3.41	0.00	3.41	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
233	17.900	22.64	0.01	5.78	55.06	6.67	3.50	0.00	3.50	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
234	17.800	22.64	0.01	5.78	55.06	6.57	3.60	0.00	3.60	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
235	17.700	22.64	0.01	5.78	55.06	6.47	3.70	0.00	3.70	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

236	17.600	22.64	0.01	5.78	55.06	6.38	3.79	0.00	3.79	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
237	17.500	22.64	0.01	5.78	55.06	6.28	3.89	0.00	3.89	0.00	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
238	17.400	22.64	0.01	5.78	55.06	6.19	3.98	0.00	3.98	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
239	17.300	22.64	0.01	5.78	55.06	6.11	4.08	0.00	4.08	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 12 KellerBarnDitchToBeauVillageDich CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
249	UPR RCH	0.36344	22.64	0.01	5.78	55.06	6.11	4.08	0.00	4.08	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00
249	TRIB	0.00029	22.64	0.02	6.72	65.84	7.86	3.33	0.00	3.33	0.00	2.17	0.00	0.00	0.00	0.00	0.00	0.00
272	WSTLD	0.00002	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
249	17.30	17.20	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	600.78	0.003	0.500	0.093
250	17.20	17.10	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	636.12	0.004	0.500	0.093
251	17.10	17.00	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	671.46	0.004	0.500	0.093
252	17.00	16.90	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	706.80	0.004	0.500	0.093
253	16.90	16.80	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	742.14	0.004	0.500	0.093
254	16.80	16.70	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	777.48	0.004	0.500	0.093
255	16.70	16.60	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	812.82	0.005	0.500	0.093
256	16.60	16.50	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	848.16	0.005	0.500	0.093
257	16.50	16.40	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	883.50	0.005	0.500	0.093
258	16.40	16.30	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	918.84	0.005	0.500	0.093
259	16.30	16.20	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	954.18	0.005	0.500	0.093
260	16.20	16.10	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	989.52	0.006	0.500	0.093
261	16.10	16.00	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1024.86	0.006	0.500	0.093
262	16.00	15.90	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1060.20	0.006	0.500	0.093
263	15.90	15.80	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1095.54	0.006	0.500	0.093
264	15.80	15.70	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1130.88	0.006	0.500	0.093
265	15.70	15.60	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1166.22	0.007	0.500	0.093
266	15.60	15.50	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1201.56	0.007	0.500	0.093
267	15.50	15.40	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1236.90	0.007	0.500	0.093
268	15.40	15.30	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1272.24	0.007	0.500	0.093
269	15.30	15.20	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1307.58	0.007	0.500	0.093
270	15.20	15.10	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1342.92	0.008	0.500	0.093
271	15.10	15.00	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1378.26	0.008	0.500	0.093
272	15.00	14.90	0.36375	1.5	0.09313	0.01	0.42	9.30	390.60	930.00	3.91	1413.60	0.008	0.500	0.093
273	14.90	14.80	0.36375	1.5	0.09313	0.01	0.42	9.30	390.60	930.00	3.91	1448.94	0.008	0.500	0.093
274	14.80	14.70	0.36375	1.5	0.09313	0.01	0.42	9.30	390.60	930.00	3.91	1484.28	0.008	0.500	0.093
275	14.70	14.60	0.36375	1.5	0.09313	0.01	0.42	9.30	390.60	930.00	3.91	1519.62	0.009	0.500	0.093
TOT						0.34			10546.20	25110.00					
AVG					0.0931		0.42	9.30			3.91				
CUM						1.38									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
249	17.200	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250	17.100	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
251	17.000	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
252	16.900	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
253	16.800	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
254	16.700	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255	16.600	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
256	16.500	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
257	16.400	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
258	16.300	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
259	16.200	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
260	16.100	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
261	16.000	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
262	15.900	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
263	15.800	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
264	15.700	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
265	15.600	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
266	15.500	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
267	15.400	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

268	15.300	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
269	15.200	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270	15.100	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
271	15.000	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
272	14.900	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273	14.800	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	14.700	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
275	14.600	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.18	0.03	0.05	0.00	0.00	0.00	0.00	4.50			0.07	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
249	17.200	22.64	0.01	5.78	55.06	6.02	4.17	0.00	4.17	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
250	17.100	22.64	0.01	5.78	55.06	5.94	4.27	0.00	4.27	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
251	17.000	22.64	0.01	5.78	55.06	5.86	4.36	0.00	4.36	0.00	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
252	16.900	22.64	0.01	5.78	55.06	5.78	4.46	0.00	4.46	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
253	16.800	22.64	0.01	5.78	55.06	5.70	4.55	0.00	4.55	0.00	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
254	16.700	22.64	0.01	5.78	55.06	5.63	4.65	0.00	4.65	0.00	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
255	16.600	22.64	0.01	5.78	55.06	5.56	4.74	0.00	4.74	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
256	16.500	22.64	0.01	5.78	55.06	5.49	4.84	0.00	4.84	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
257	16.400	22.64	0.01	5.78	55.06	5.42	4.93	0.00	4.93	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
258	16.300	22.64	0.01	5.78	55.06	5.35	5.03	0.00	5.03	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
259	16.200	22.64	0.01	5.78	55.06	5.29	5.12	0.00	5.12	0.00	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
260	16.100	22.64	0.01	5.78	55.06	5.22	5.22	0.00	5.22	0.00	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
261	16.000	22.64	0.01	5.78	55.06	5.16	5.31	0.00	5.31	0.00	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
262	15.900	22.64	0.01	5.78	55.06	5.10	5.41	0.00	5.41	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
263	15.800	22.64	0.01	5.78	55.06	5.04	5.50	0.00	5.50	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
264	15.700	22.64	0.01	5.78	55.06	4.99	5.60	0.00	5.60	0.00	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
265	15.600	22.64	0.01	5.78	55.06	4.93	5.69	0.00	5.69	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
266	15.500	22.64	0.01	5.78	55.06	4.88	5.78	0.00	5.78	0.00	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
267	15.400	22.64	0.01	5.78	55.06	4.82	5.88	0.00	5.88	0.00	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
268	15.300	22.64	0.01	5.78	55.06	4.77	5.97	0.00	5.97	0.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
269	15.200	22.64	0.01	5.78	55.06	4.72	6.06	0.00	6.06	0.00	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
270	15.100	22.64	0.01	5.78	55.06	4.68	6.16	0.00	6.16	0.00	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
271	15.000	22.64	0.01	5.78	55.07	4.63	6.25	0.00	6.25	0.00	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
272	14.900	22.64	0.01	5.79	55.10	4.58	6.35	0.00	6.35	0.00	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
273	14.800	22.64	0.01	5.79	55.10	4.54	6.44	0.00	6.44	0.00	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
274	14.700	22.64	0.01	5.79	55.11	4.50	6.54	0.00	6.54	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
275	14.600	22.64	0.01	5.79	55.20	4.45	6.63	0.00	6.63	0.00	1.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 14 Beau Village Ditch to BL05 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
306	UPR RCH	0.36375	22.64	0.01	5.79	55.20	4.45	6.63	0.00	6.63	0.00	1.94	0.00	0.00	0.00	0.00	0.00	0.00
306	TRIB	0.00133	22.64	0.29	46.90	579.21	7.97	15.91	0.00	15.91	0.00	30.65	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
306	14.60	14.50	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	1590.30	0.009	0.500	0.093
307	14.50	14.40	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	1660.98	0.009	0.500	0.093
308	14.40	14.30	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	1731.66	0.010	0.500	0.093
309	14.30	14.20	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	1802.34	0.010	0.500	0.093
310	14.20	14.10	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	1873.02	0.011	0.500	0.093
311	14.10	14.00	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	1943.70	0.011	0.500	0.093
312	14.00	13.90	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2014.38	0.011	0.500	0.093
313	13.90	13.80	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2085.06	0.012	0.500	0.093
314	13.80	13.70	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2155.74	0.012	0.500	0.093
315	13.70	13.60	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2226.42	0.013	0.500	0.093
316	13.60	13.50	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2297.10	0.013	0.500	0.093
317	13.50	13.40	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2367.78	0.013	0.500	0.093
318	13.40	13.30	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2438.46	0.014	0.500	0.093
319	13.30	13.20	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2509.14	0.014	0.500	0.093
TOT						0.17			5468.40	13020.00					
AVG					0.0935		0.42	9.30			3.91				

CUM 1.55

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
306	14.500	8.63	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.33	5.33	5.33	0.07	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
307	14.400	8.63	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.34	5.34	5.34	0.07	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
308	14.300	8.62	2.31	0.03	0.05	0.00	0.00	0.00	0.00	5.35	5.35	5.35	0.07	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
309	14.200	8.61	2.31	0.03	0.05	0.00	0.00	0.00	0.00	5.36	5.36	5.36	0.07	0.05	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
310	14.100	8.61	2.31	0.03	0.05	0.00	0.00	0.00	0.00	5.37	5.37	5.37	0.07	0.05	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
311	14.000	8.60	2.31	0.03	0.05	0.00	0.00	0.00	0.00	5.38	5.38	5.38	0.07	0.05	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
312	13.900	8.60	2.31	0.03	0.05	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.07	0.05	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
313	13.800	8.59	2.31	0.03	0.05	0.00	0.00	0.00	0.00	5.41	5.41	5.41	0.07	0.05	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
314	13.700	8.59	2.32	0.03	0.05	0.00	0.00	0.00	0.00	5.42	5.42	5.42	0.07	0.05	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
315	13.600	8.58	2.32	0.03	0.05	0.00	0.00	0.00	0.00	5.43	5.43	5.43	0.07	0.05	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00
316	13.500	8.57	2.32	0.03	0.05	0.00	0.00	0.00	0.00	5.44	5.44	5.44	0.07	0.05	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
317	13.400	8.57	2.32	0.03	0.05	0.00	0.00	0.00	0.00	5.45	5.45	5.45	0.07	0.05	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
318	13.300	8.56	2.32	0.03	0.05	0.00	0.00	0.00	0.00	5.47	5.47	5.47	0.07	0.05	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
319	13.200	8.56	2.32	0.03	0.05	0.00	0.00	0.00	0.00	5.48	5.48	5.48	0.07	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.19	0.03	0.05	0.00	0.00	0.00	0.00	4.50			0.07	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
306	14.500	22.67	0.01	5.94	57.02	4.43	6.77	0.00	6.77	0.00	2.10	0.00	0.00	0.00	0.00	0.76	0.00	0.	0.00
307	14.400	22.71	0.01	5.94	57.02	4.39	6.88	0.00	6.88	0.00	2.15	0.00	0.00	0.00	0.00	1.51	0.00	0.	0.00
308	14.300	22.74	0.01	5.94	57.02	4.35	6.98	0.00	6.98	0.00	2.21	0.00	0.00	0.00	0.00	2.27	0.00	0.	0.00
309	14.200	22.78	0.01	5.94	57.02	4.31	7.09	0.00	7.09	0.00	2.26	0.00	0.00	0.00	0.00	3.03	0.00	0.	0.00
310	14.100	22.81	0.01	5.94	57.02	4.27	7.19	0.00	7.19	0.00	2.32	0.00	0.00	0.00	0.00	3.79	0.00	0.	0.00
311	14.000	22.85	0.01	5.94	57.02	4.24	7.30	0.00	7.30	0.00	2.37	0.00	0.00	0.00	0.00	4.54	0.00	0.	0.00
312	13.900	22.88	0.01	5.94	57.02	4.20	7.40	0.00	7.40	0.00	2.43	0.00	0.00	0.00	0.00	5.30	0.00	0.	0.00
313	13.800	22.91	0.01	5.94	57.02	4.17	7.51	0.00	7.51	0.00	2.48	0.00	0.00	0.00	0.00	6.06	0.00	0.	0.00
314	13.700	22.95	0.01	5.94	57.02	4.14	7.61	0.00	7.61	0.00	2.54	0.00	0.00	0.00	0.00	6.81	0.00	0.	0.00
315	13.600	22.98	0.01	5.94	57.02	4.10	7.72	0.00	7.72	0.00	2.59	0.00	0.00	0.00	0.00	7.57	0.00	0.	0.00
316	13.500	23.02	0.01	5.94	57.02	4.07	7.82	0.00	7.82	0.00	2.65	0.00	0.00	0.00	0.00	8.33	0.00	0.	0.00
317	13.400	23.05	0.01	5.94	57.02	4.04	7.93	0.00	7.93	0.00	2.70	0.00	0.00	0.00	0.00	9.09	0.00	0.	0.00
318	13.300	23.09	0.01	5.94	57.02	4.01	8.04	0.00	8.04	0.00	2.76	0.00	0.00	0.00	0.00	9.84	0.00	0.	0.00
319	13.200	23.12	0.01	5.94	57.02	3.97	8.24	0.00	8.24	0.00	2.85	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 15 BL05 to Hwy 190 Ditch BL CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
320	UPR RCH	0.36508	23.12	0.01	5.94	57.02	3.97	8.24	0.00	8.24	0.00	2.85	0.00	0.00	0.00	10.60	0.00	0.00
325	WSTLD	0.00005	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
320	13.20	13.10	0.36508	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	2797.56	0.001	0.500	0.004
321	13.10	13.00	0.36508	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	3085.98	0.001	0.500	0.004
322	13.00	12.90	0.36508	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	3374.40	0.001	0.500	0.004
323	12.90	12.80	0.36508	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	3662.82	0.001	0.500	0.004
324	12.80	12.70	0.36508	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	3951.24	0.001	0.500	0.004
325	12.70	12.60	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	4239.66	0.001	0.500	0.004
326	12.60	12.50	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	4528.08	0.001	0.500	0.004
327	12.50	12.40	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	4816.50	0.001	0.500	0.004
328	12.40	12.30	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	5104.92	0.001	0.500	0.004
329	12.30	12.20	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	5393.34	0.001	0.500	0.004
330	12.20	12.10	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	5681.76	0.001	0.500	0.004
331	12.10	12.00	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	5970.18	0.001	0.500	0.004
332	12.00	11.90	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	6258.60	0.002	0.500	0.004
333	11.90	11.80	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	6547.02	0.002	0.500	0.004
334	11.80	11.70	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	6835.44	0.002	0.500	0.004

335	11.70	11.60	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	7123.86	0.002	0.500	0.004
336	11.60	11.50	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	7412.28	0.002	0.500	0.004
337	11.50	11.40	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	7700.70	0.002	0.500	0.004
338	11.40	11.30	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	7989.12	0.002	0.500	0.004
339	11.30	11.20	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	8277.54	0.002	0.500	0.004
340	11.20	11.10	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	8565.96	0.002	0.500	0.004
TOT						6.06			191267.98	53130.00					
AVG					0.0040		3.60	25.30			91.08				
CUM						7.62									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
320	13.100	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.06	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
321	13.000	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.06	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
322	12.900	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.06	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
323	12.800	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.06	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
324	12.700	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
325	12.600	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
326	12.500	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
327	12.400	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
328	12.300	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
329	12.200	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
330	12.100	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
331	12.000	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
332	11.900	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
333	11.800	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
334	11.700	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
335	11.600	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
336	11.500	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
337	11.400	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
338	11.300	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
339	11.200	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
340	11.100	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.19	0.05	0.05	0.00	0.00	0.00	0.00	3.00			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
320	13.100	23.12	0.01	5.94	57.02	3.95	8.40	0.00	8.40	0.00	2.90	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
321	13.000	23.12	0.01	5.94	57.02	3.94	8.51	0.00	8.51	0.00	2.95	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
322	12.900	23.12	0.01	5.94	57.03	3.92	8.62	0.00	8.62	0.00	2.99	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
323	12.800	23.12	0.01	5.94	57.04	3.90	8.73	0.00	8.73	0.00	3.03	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
324	12.700	23.12	0.01	5.94	57.07	3.88	8.84	0.00	8.84	0.00	3.07	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
325	12.600	23.12	0.01	5.94	57.11	3.86	8.94	0.00	8.94	0.00	3.11	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
326	12.500	23.12	0.01	5.94	57.11	3.84	9.04	0.00	9.04	0.00	3.14	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
327	12.400	23.12	0.01	5.94	57.11	3.82	9.14	0.00	9.14	0.00	3.18	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
328	12.300	23.12	0.01	5.94	57.11	3.80	9.23	0.00	9.23	0.00	3.21	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
329	12.200	23.12	0.01	5.94	57.11	3.77	9.32	0.00	9.32	0.00	3.25	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
330	12.100	23.12	0.01	5.95	57.12	3.75	9.40	0.00	9.40	0.00	3.28	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
331	12.000	23.12	0.01	5.95	57.13	3.73	9.49	0.00	9.49	0.00	3.31	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
332	11.900	23.12	0.01	5.95	57.15	3.71	9.57	0.00	9.57	0.00	3.34	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
333	11.800	23.12	0.01	5.95	57.18	3.68	9.65	0.00	9.65	0.00	3.37	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
334	11.700	23.12	0.01	5.96	57.24	3.66	9.72	0.00	9.72	0.00	3.40	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
335	11.600	23.12	0.01	5.98	57.34	3.64	9.80	0.00	9.80	0.00	3.43	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
336	11.500	23.12	0.01	6.00	57.53	3.61	9.86	0.00	9.86	0.00	3.46	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
337	11.400	23.12	0.01	6.05	57.87	3.59	9.92	0.00	9.92	0.00	3.48	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
338	11.300	23.12	0.01	6.13	58.49	3.57	9.96	0.00	9.96	0.00	3.51	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
339	11.200	23.12	0.01	6.29	59.60	3.54	9.98	0.00	9.98	0.00	3.54	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
340	11.100	23.12	0.01	6.56	61.60	3.51	9.97	0.00	9.97	0.00	3.57	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 17 Hwy190DitchBLtoHwy434/190DitchBL CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
363	UPR RCH	0.36513	23.12	0.01	6.56	61.60	3.51	9.97	0.00	9.97	0.00	3.57	0.00	0.00	0.00	10.60	0.00	0.00
363	TRIB	0.00279	23.12	0.33	52.64	652.56	7.25	58.88	0.00	58.88	0.00	55.06	0.00	0.00	0.00	10.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
363	11.10	11.09	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8594.80	0.002	0.500	0.004
364	11.09	11.08	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8623.64	0.002	0.500	0.004
365	11.08	11.07	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8652.48	0.002	0.500	0.004
366	11.07	11.06	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8681.33	0.002	0.500	0.004
367	11.06	11.05	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8710.17	0.002	0.500	0.004
368	11.05	11.04	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8739.01	0.002	0.500	0.004
369	11.04	11.03	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8767.85	0.002	0.500	0.004
370	11.03	11.02	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8796.69	0.002	0.500	0.004
371	11.02	11.01	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8825.54	0.002	0.500	0.004
372	11.01	11.00	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8854.38	0.002	0.500	0.004
TOT						0.29			9108.00	2530.00					
AVG					0.0040		3.60	25.30			91.08				
CUM						7.90									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
363	11.090	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
364	11.080	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
365	11.070	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
366	11.060	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
367	11.050	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
368	11.040	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
369	11.030	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
370	11.020	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
371	11.010	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
372	11.000	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.19	0.05	0.05	0.00	0.00	0.00	0.00	3.00			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
363	11.090	23.12	0.01	6.84	63.59	3.49	9.91	0.00	9.91	0.00	3.58	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
364	11.080	23.12	0.01	6.88	63.75	3.49	9.87	0.00	9.87	0.00	3.56	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
365	11.070	23.12	0.01	6.93	63.92	3.48	9.83	0.00	9.83	0.00	3.53	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
366	11.060	23.12	0.01	6.98	64.10	3.47	9.79	0.00	9.79	0.00	3.50	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
367	11.050	23.12	0.01	7.04	64.30	3.46	9.74	0.00	9.74	0.00	3.47	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
368	11.040	23.12	0.01	7.10	64.52	3.45	9.70	0.00	9.70	0.00	3.44	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
369	11.030	23.12	0.01	7.16	64.76	3.44	9.65	0.00	9.65	0.00	3.41	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
370	11.020	23.12	0.01	7.23	65.01	3.43	9.60	0.00	9.60	0.00	3.37	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
371	11.010	23.12	0.01	7.30	65.29	3.42	9.56	0.00	9.56	0.00	3.33	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
372	11.000	23.12	0.01	7.39	65.58	3.41	9.50	0.00	9.50	0.00	3.29	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 19 Hwy 434/190 Ditch BL to BL06 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
395	UPR RCH	0.36792	23.12	0.01	7.39	65.58	3.41	9.50	0.00	9.50	0.00	3.29	0.00	0.00	0.00	10.60	0.00	0.00
395	TRIB	0.00032	23.12	0.06	12.62	141.26	7.74	13.18	0.00	13.18	0.00	8.85	0.00	0.00	0.00	10.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
395	11.00	10.99	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8883.22	0.002	0.500	0.004
396	10.99	10.98	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8912.06	0.002	0.500	0.004

397	10.98	10.97	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8940.90	0.002	0.500	0.004
398	10.97	10.96	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8969.74	0.002	0.500	0.004
399	10.96	10.95	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8998.59	0.002	0.500	0.004
400	10.95	10.94	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	9027.43	0.002	0.500	0.004
401	10.94	10.93	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	9056.27	0.002	0.500	0.004
402	10.93	10.92	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	9085.11	0.002	0.500	0.004
403	10.92	10.91	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	9113.95	0.002	0.500	0.004
404	10.91	10.90	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	9142.79	0.002	0.500	0.004
TOT						0.29			9108.00	2530.00					
AVG					0.0040		3.60	25.30			91.08				
CUM						8.19									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
395	10.990	8.52	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.05	0.05	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
396	10.980	8.48	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.76	3.76	3.76	0.05	0.05	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
397	10.970	8.44	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.82	3.82	3.82	0.06	0.05	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
398	10.960	8.41	0.21	0.05	0.06	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.06	0.06	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
399	10.950	8.37	0.21	0.05	0.06	0.00	0.00	0.00	0.00	3.93	3.93	3.93	0.06	0.06	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
400	10.940	8.33	0.21	0.06	0.06	0.00	0.00	0.00	0.00	3.99	3.99	3.99	0.06	0.06	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
401	10.930	8.30	0.21	0.06	0.06	0.00	0.00	0.00	0.00	4.05	4.05	4.05	0.06	0.06	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
402	10.920	8.26	0.21	0.06	0.06	0.00	0.00	0.00	0.00	4.11	4.11	4.11	0.06	0.06	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
403	10.910	8.23	0.21	0.06	0.06	0.00	0.00	0.00	0.00	4.17	4.17	4.17	0.06	0.06	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
404	10.900	8.19	0.22	0.06	0.06	0.00	0.00	0.00	0.00	4.23	4.23	4.23	0.06	0.06	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.19	0.05	0.05	0.00	0.00	0.00	0.00	3.00			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
395	10.990	23.36	0.01	7.47	65.90	3.40	9.45	0.00	9.45	0.00	3.25	0.00	0.00	0.00	0.00	10.67	0.00	0.	0.00
396	10.980	23.59	0.01	7.57	66.24	3.38	9.40	0.00	9.40	0.00	3.21	0.00	0.00	0.00	0.00	10.74	0.00	0.	0.00
397	10.970	23.83	0.01	7.67	66.61	3.37	9.34	0.00	9.34	0.00	3.16	0.00	0.00	0.00	0.00	10.81	0.00	0.	0.00
398	10.960	24.06	0.02	7.78	67.01	3.35	9.28	0.00	9.28	0.00	3.11	0.00	0.00	0.00	0.00	10.88	0.00	0.	0.00
399	10.950	24.30	0.02	7.90	67.44	3.33	9.22	0.00	9.22	0.00	3.05	0.00	0.00	0.00	0.00	10.95	0.00	0.	0.00
400	10.940	24.53	0.02	8.03	67.91	3.31	9.15	0.00	9.15	0.00	3.00	0.00	0.00	0.00	0.00	11.02	0.00	0.	0.00
401	10.930	24.76	0.02	8.17	68.41	3.29	9.09	0.00	9.09	0.00	2.94	0.00	0.00	0.00	0.00	11.09	0.00	0.	0.00
402	10.920	25.00	0.02	8.32	68.95	3.27	9.02	0.00	9.02	0.00	2.87	0.00	0.00	0.00	0.00	11.16	0.00	0.	0.00
403	10.910	25.23	0.02	8.49	69.54	3.24	8.94	0.00	8.94	0.00	2.80	0.00	0.00	0.00	0.00	11.23	0.00	0.	0.00
404	10.900	25.47	0.02	8.66	70.18	3.21	8.87	0.00	8.87	0.00	2.72	0.00	0.00	0.00	0.00	11.30	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 20 BL06 to confluence with BBB CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
405	UPR RCH	0.36824	25.47	0.02	8.66	70.18	3.21	8.87	0.00	8.87	0.00	2.72	0.00	0.00	0.00	11.30	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
405	10.90	10.80	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	9814.63	0.002	2.000	0.003
406	10.80	10.70	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	10486.47	0.002	2.000	0.003
407	10.70	10.60	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	11158.31	0.002	2.000	0.003
408	10.60	10.50	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	11830.15	0.002	2.000	0.003
409	10.50	10.40	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	12501.99	0.002	2.000	0.003
410	10.40	10.30	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	13173.83	0.002	2.000	0.003
411	10.30	10.20	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	13845.67	0.002	2.000	0.003
412	10.20	10.10	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	14517.51	0.002	2.000	0.003
413	10.10	10.00	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	15189.35	0.002	2.000	0.003
414	10.00	9.90	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	15861.19	0.003	2.000	0.003
415	9.90	9.80	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	16533.03	0.003	2.000	0.003
416	9.80	9.70	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	17204.87	0.003	2.000	0.003
417	9.70	9.60	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	17876.71	0.003	2.000	0.003

418	9.60	9.50	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	18548.55	0.003	2.000	0.003
419	9.50	9.40	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	19220.39	0.003	2.000	0.004
420	9.40	9.30	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	19892.23	0.003	2.000	0.004
421	9.30	9.20	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	20564.07	0.003	2.000	0.004
422	9.20	9.10	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	21235.91	0.003	2.000	0.004
423	9.10	9.00	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	21907.75	0.003	2.000	0.004
424	9.00	8.90	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	22579.59	0.004	2.000	0.004
425	8.90	8.80	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	23251.43	0.004	2.000	0.004
TOT						9.19			292383.03	92820.00					
AVG					0.0026		3.15	44.20			139.23				
CUM						17.38									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
405	10.800	8.19	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.94	4.94	4.94	0.10	0.06	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
406	10.700	8.19	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.95	4.95	4.95	0.10	0.06	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
407	10.600	8.18	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.10	0.06	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
408	10.500	8.18	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.10	0.06	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
409	10.400	8.18	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.97	4.97	4.97	0.10	0.06	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
410	10.300	8.17	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.97	4.97	4.97	0.10	0.06	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
411	10.200	8.17	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.98	4.98	4.98	0.10	0.06	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
412	10.100	8.17	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.98	4.98	4.98	0.10	0.06	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
413	10.000	8.17	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.99	4.99	4.99	0.10	0.06	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
414	9.900	8.16	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.00	5.00	5.00	0.11	0.06	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
415	9.800	8.16	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.00	5.00	5.00	0.11	0.06	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
416	9.700	8.16	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.11	0.06	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
417	9.600	8.16	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.11	0.06	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
418	9.500	8.15	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.02	5.02	5.02	0.11	0.06	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
419	9.400	8.15	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.02	5.02	5.02	0.11	0.06	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
420	9.300	8.15	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.11	0.06	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
421	9.200	8.14	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.04	5.04	5.04	0.11	0.06	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
422	9.100	8.14	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.04	5.04	5.04	0.11	0.06	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
423	9.000	8.14	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.05	5.05	5.05	0.11	0.06	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
424	8.900	8.14	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.05	5.05	5.05	0.11	0.06	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
425	8.800	8.13	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.11	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.22	0.04	0.05	0.00	0.00	0.00	0.00	3.50			0.09	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
405	10.800	25.49	0.02	8.85	70.84	3.19	8.79	0.00	8.79	0.00	2.65	0.00	0.00	0.00	0.00	11.72	0.00	0.	0.00
406	10.700	25.51	0.02	9.18	72.06	3.16	8.67	0.00	8.67	0.00	2.53	0.00	0.00	0.00	0.00	12.15	0.00	0.	0.00
407	10.600	25.52	0.02	9.56	73.43	3.13	8.56	0.00	8.56	0.00	2.42	0.00	0.00	0.00	0.00	12.57	0.00	0.	0.00
408	10.500	25.54	0.02	10.00	74.98	3.12	8.47	0.00	8.47	0.00	2.32	0.00	0.00	0.00	0.00	13.00	0.00	0.	0.00
409	10.400	25.56	0.02	10.48	76.74	3.12	8.38	0.00	8.38	0.00	2.22	0.00	0.00	0.00	0.00	13.42	0.00	0.	0.00
410	10.300	25.58	0.02	11.04	78.73	3.13	8.31	0.00	8.31	0.00	2.14	0.00	0.00	0.00	0.00	13.84	0.00	0.	0.00
411	10.200	25.60	0.02	11.66	80.98	3.14	8.25	0.00	8.25	0.00	2.06	0.00	0.00	0.00	0.00	14.27	0.00	0.	0.00
412	10.100	25.61	0.02	12.37	83.53	3.16	8.20	0.00	8.20	0.00	1.99	0.00	0.00	0.00	0.00	14.69	0.00	0.	0.00
413	10.000	25.63	0.02	13.18	86.42	3.18	8.18	0.00	8.18	0.00	1.94	0.00	0.00	0.00	0.00	15.11	0.00	0.	0.00
414	9.900	25.65	0.03	14.08	89.70	3.21	8.17	0.00	8.17	0.00	1.89	0.00	0.00	0.00	0.00	15.54	0.00	0.	0.00
415	9.800	25.67	0.03	15.11	93.40	3.24	8.18	0.00	8.18	0.00	1.85	0.00	0.00	0.00	0.00	15.96	0.00	0.	0.00
416	9.700	25.69	0.03	16.28	97.59	3.27	8.22	0.00	8.22	0.00	1.83	0.00	0.00	0.00	0.00	16.39	0.00	0.	0.00
417	9.600	25.71	0.03	17.60	102.34	3.30	8.28	0.00	8.28	0.00	1.82	0.00	0.00	0.00	0.00	16.81	0.00	0.	0.00
418	9.500	25.72	0.04	19.09	107.72	3.33	8.38	0.00	8.38	0.00	1.83	0.00	0.00	0.00	0.00	17.23	0.00	0.	0.00
419	9.400	25.74	0.04	20.78	113.81	3.36	8.51	0.00	8.51	0.00	1.86	0.00	0.00	0.00	0.00	17.66	0.00	0.	0.00
420	9.300	25.76	0.04	22.70	120.70	3.40	8.68	0.00	8.68	0.00	1.91	0.00	0.00	0.00	0.00	18.08	0.00	0.	0.00
421	9.200	25.78	0.05	24.87	128.50	3.43	8.91	0.00	8.91	0.00	1.98	0.00	0.00	0.00	0.00	18.50	0.00	0.	0.00
422	9.100	25.80	0.05	27.32	137.34	3.46	9.19	0.00	9.19	0.00	2.08	0.00	0.00	0.00	0.00	18.93	0.00	0.	0.00
423	9.000	25.81	0.06	30.10	147.35	3.48	9.54	0.00	9.54	0.00	2.21	0.00	0.00	0.00	0.00	19.35	0.00	0.	0.00
424	8.900	25.83	0.06	33.25	158.67	3.51	9.96	0.00	9.96	0.00	2.38	0.00	0.00	0.00	0.00	19.78	0.00	0.	0.00
425	8.800	25.85	0.07	36.81	171.50	3.54	10.48	0.00	10.48	0.00	2.60	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 32 Big Branch Bayou to BL07 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM

616	UPR RCH	0.36824	25.85	0.07	36.81	171.50	3.54	10.48	0.00	10.48	0.00	2.60	0.00	0.00	0.00	20.20	0.00	0.00
616	TRIB	0.16292	25.85	0.07	37.91	176.58	3.23	11.55	0.00	11.55	0.00	3.15	0.00	0.00	0.00	20.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
616	8.80	8.79	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	30400.75	0.003	3.000	0.004
617	8.79	8.78	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	30525.85	0.003	3.000	0.004
618	8.78	8.77	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	30650.94	0.003	3.000	0.004
619	8.77	8.76	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	30776.04	0.003	3.000	0.004
620	8.76	8.75	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	30901.13	0.003	3.000	0.004
621	8.75	8.74	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	31026.23	0.003	3.000	0.004
622	8.74	8.73	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	31151.33	0.003	3.000	0.004
623	8.73	8.72	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	31276.42	0.003	3.000	0.004
624	8.72	8.71	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	31401.52	0.003	3.000	0.004
625	8.71	8.70	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	31526.61	0.003	3.000	0.004
TOT						0.46			21068.80	8230.00					
AVG					0.0025		2.56	82.30			210.69				
CUM						17.84									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
616	8.790	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
617	8.780	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
618	8.770	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
619	8.760	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
620	8.750	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
621	8.740	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
622	8.730	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
623	8.720	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
624	8.710	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
625	8.700	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.27	0.05	0.05	0.00	0.00	0.00	0.00	3.50			0.13	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
616	8.790	25.85	0.07	38.80	178.66	3.56	10.78	0.00	10.78	0.00	2.74	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
617	8.780	25.85	0.07	39.06	179.50	3.59	10.75	0.00	10.75	0.00	2.72	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
618	8.770	25.85	0.07	39.32	180.35	3.61	10.72	0.00	10.72	0.00	2.70	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
619	8.760	25.85	0.07	39.58	181.21	3.64	10.69	0.00	10.69	0.00	2.68	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
620	8.750	25.85	0.07	39.85	182.08	3.67	10.66	0.00	10.66	0.00	2.66	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
621	8.740	25.85	0.07	40.11	182.95	3.70	10.64	0.00	10.64	0.00	2.64	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
622	8.730	25.85	0.07	40.38	183.83	3.73	10.61	0.00	10.61	0.00	2.63	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
623	8.720	25.85	0.07	40.66	184.71	3.76	10.58	0.00	10.58	0.00	2.61	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
624	8.710	25.85	0.07	40.93	185.61	3.79	10.55	0.00	10.55	0.00	2.59	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
625	8.700	25.85	0.08	41.21	186.51	3.82	10.52	0.00	10.52	0.00	2.57	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 33 BL07to confluence w/CypressBayou CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
626	UPR RCH	0.53116	25.85	0.08	41.21	186.51	3.82	10.52	0.00	10.52	0.00	2.57	0.00	0.00	0.00	20.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
626	8.70	8.60	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	32777.57	0.003	4.000	0.004

627	8.60	8.50	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	34028.54	0.004	4.000	0.004
628	8.50	8.40	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	35279.50	0.004	4.000	0.004
629	8.40	8.30	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	36530.46	0.004	4.000	0.004
630	8.30	8.20	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	37781.42	0.004	4.000	0.004
631	8.20	8.10	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	39032.38	0.004	4.000	0.004
632	8.10	8.00	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	40283.34	0.004	4.000	0.005
633	8.00	7.90	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	41534.30	0.004	4.000	0.005
634	7.90	7.80	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	42785.26	0.005	4.000	0.005
635	7.80	7.70	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	44036.22	0.005	4.000	0.005
636	7.70	7.60	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	45287.18	0.005	4.000	0.005
637	7.60	7.50	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	46538.14	0.005	4.000	0.005
638	7.50	7.40	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	47789.11	0.005	4.000	0.005
639	7.40	7.30	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	49040.07	0.005	4.000	0.005
640	7.30	7.20	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	50291.03	0.005	4.000	0.006
641	7.20	7.10	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	51541.99	0.005	4.000	0.006
642	7.10	7.00	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	52792.95	0.006	4.000	0.006
643	7.00	6.90	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	54043.91	0.006	4.000	0.006
644	6.90	6.80	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	55294.87	0.006	4.000	0.006
645	6.80	6.70	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	56545.83	0.006	4.000	0.006
646	6.70	6.60	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	57796.79	0.006	4.000	0.006
647	6.60	6.50	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	59047.75	0.006	4.000	0.006
648	6.50	6.40	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	60298.71	0.006	4.000	0.007
649	6.40	6.30	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	61549.68	0.006	4.000	0.007
TOT						11.02			505651.31	197520.00					
AVG					0.0025		2.56	82.30			210.69				
CUM						28.86									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
626	8.600	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.16	0.06	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
627	8.500	8.14	0.31	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.17	0.06	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
628	8.400	8.14	0.31	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.17	0.06	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
629	8.300	8.14	0.31	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.17	0.06	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
630	8.200	8.14	0.31	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.17	0.06	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
631	8.100	8.14	0.31	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.17	0.06	0.00	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
632	8.000	8.15	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.17	0.06	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
633	7.900	8.15	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
634	7.800	8.15	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
635	7.700	8.15	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
636	7.600	8.15	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
637	7.500	8.16	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
638	7.400	8.16	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
639	7.300	8.16	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
640	7.200	8.16	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
641	7.100	8.16	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
642	7.000	8.16	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00
643	6.900	8.17	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
644	6.800	8.17	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
645	6.700	8.17	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
646	6.600	8.17	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
647	6.500	8.17	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
648	6.400	8.17	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.18	0.06	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
649	6.300	8.18	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.18	0.06	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.27	0.05	0.05	0.00	0.00	0.00	0.00	1.00			0.13	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
626	8.600	25.84	0.08	42.38	190.35	3.95	10.40	0.00	10.40	0.00	2.49	0.00	0.00	0.00	0.00	20.08	0.00	0.	0.00
627	8.500	25.82	0.08	44.55	197.41	4.16	10.21	0.00	10.21	0.00	2.37	0.00	0.00	0.00	0.00	19.95	0.00	0.	0.00
628	8.400	25.81	0.09	46.85	204.91	4.36	10.03	0.00	10.03	0.00	2.25	0.00	0.00	0.00	0.00	19.83	0.00	0.	0.00
629	8.300	25.79	0.09	49.29	212.89	4.55	9.86	0.00	9.86	0.00	2.14	0.00	0.00	0.00	0.00	19.70	0.00	0.	0.00
630	8.200	25.77	0.10	51.89	221.37	4.72	9.71	0.00	9.71	0.00	2.04	0.00	0.00	0.00	0.00	19.58	0.00	0.	0.00
631	8.100	25.76	0.10	54.66	230.39	4.89	9.56	0.00	9.56	0.00	1.94	0.00	0.00	0.00	0.00	19.45	0.00	0.	0.00
632	8.000	25.75	0.11	57.60	239.97	5.04	9.43	0.00	9.43	0.00	1.85	0.00	0.00	0.00	0.00	19.33	0.00	0.	0.00
633	7.900	25.73	0.11	60.72	250.16	5.17	9.32	0.00	9.32	0.00	1.77	0.00	0.00	0.00	0.00	19.20	0.00	0.	0.00
634	7.800	25.72	0.12	64.04	260.99	5.30	9.21	0.00	9.21	0.00	1.69	0.00	0.00	0.00	0.00	19.08	0.00	0.	0.00
635	7.700	25.70	0.13	67.57	272.51	5.42	9.12	0.00	9.12	0.00	1.62	0.00	0.00	0.00	0.00	18.95	0.00	0.	0.00
636	7.600	25.68	0.13	71.32	284.75	5.52	9.05	0.00	9.05	0.00	1.56	0.00	0.00	0.00	0.00	18.83	0.00	0.	0.00
637	7.500	25.67	0.14	75.31	297.76	5.61	8.99	0.00	8.99	0.00	1.50	0.00	0.00	0.00	0.00	18.70	0.00	0.	0.00
638	7.400	25.66	0.15	79.55	311.59	5.69	8.94	0.00	8.94	0.00	1.45	0.00	0.00	0.00	0.00	18.58	0.00	0.	0.00
639	7.300	25.64	0.16	84.06	326.29	5.76	8.91	0.00	8.91	0.00	1.41	0.00	0.00	0.00	0.00	18.45	0.00	0.	0.00

640	7.200	25.62	0.17	88.85	341.92	5.82	8.90	0.00	8.90	0.00	1.37	0.00	0.00	0.00	0.00	18.33	0.00	0.	0.00
641	7.100	25.61	0.18	93.95	358.53	5.86	8.91	0.00	8.91	0.00	1.34	0.00	0.00	0.00	0.00	18.20	0.00	0.	0.00
642	7.000	25.59	0.19	99.36	376.19	5.90	8.94	0.00	8.94	0.00	1.32	0.00	0.00	0.00	0.00	18.08	0.00	0.	0.00
643	6.900	25.58	0.20	105.12	394.96	5.92	8.98	0.00	8.98	0.00	1.31	0.00	0.00	0.00	0.00	17.95	0.00	0.	0.00
644	6.800	25.57	0.21	111.24	414.92	5.92	9.06	0.00	9.06	0.00	1.30	0.00	0.00	0.00	0.00	17.83	0.00	0.	0.00
645	6.700	25.55	0.22	117.74	436.13	5.92	9.15	0.00	9.15	0.00	1.30	0.00	0.00	0.00	0.00	17.70	0.00	0.	0.00
646	6.600	25.53	0.23	124.65	458.69	5.90	9.27	0.00	9.27	0.00	1.32	0.00	0.00	0.00	0.00	17.58	0.00	0.	0.00
647	6.500	25.52	0.25	132.01	482.66	5.86	9.42	0.00	9.42	0.00	1.34	0.00	0.00	0.00	0.00	17.45	0.00	0.	0.00
648	6.400	25.50	0.26	139.82	508.14	5.81	9.60	0.00	9.60	0.00	1.37	0.00	0.00	0.00	0.00	17.33	0.00	0.	0.00
649	6.300	25.49	0.28	148.12	535.23	5.74	9.82	0.00	9.82	0.00	1.41	0.00	0.00	0.00	0.00	17.20	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 39 Cypress Bayou to BL08 — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
715	UPR RCH	0.53116	25.49	0.28	148.12	535.23	5.74	9.82	0.00	9.82	0.00	1.41	0.00	0.00	0.00	17.20	0.00	0.00
715	TRIB	0.21395	25.49	0.29	153.89	556.22	5.58	10.22	0.00	10.22	0.00	1.47	0.00	0.00	0.00	17.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
715	6.30	6.20	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	70529.42	0.007	5.000	0.007
716	6.20	6.10	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	71664.55	0.007	5.000	0.007
TOT						0.70			45256.08	14936.00					
AVG					0.0033		3.03	74.68			226.28				
CUM						29.56									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
715	6.200	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.09	0.06	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
716	6.100	8.17	0.26	0.07	0.06	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.09	0.06	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.23	0.05	0.05	0.00	0.00	0.00	0.00	1.00			0.06	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
715	6.200	25.49	0.29	155.66	559.82	5.67	10.03	0.00	10.03	0.00	1.46	0.00	0.00	0.00	0.00	17.20	0.00	0.	0.00
716	6.100	25.49	0.31	165.11	587.54	5.72	9.98	0.00	9.98	0.00	1.49	0.00	0.00	0.00	0.00	17.20	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 40 BL08 to BL09 — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
717	UPR RCH	0.74511	25.49	0.31	165.11	587.54	5.72	9.98	0.00	9.98	0.00	1.49	0.00	0.00	0.00	17.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
717	6.10	6.00	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	72799.69	0.007	6.000	0.007
718	6.00	5.90	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	73934.82	0.007	6.000	0.008
719	5.90	5.80	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	75069.95	0.007	6.000	0.008
720	5.80	5.70	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	76205.09	0.007	6.000	0.008

721	5.70	5.60	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	77340.22	0.008	6.000	0.008
722	5.60	5.50	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	78475.35	0.008	6.000	0.008
723	5.50	5.40	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	79610.48	0.008	6.000	0.008
724	5.40	5.30	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	80745.62	0.008	6.000	0.008
725	5.30	5.20	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	81880.75	0.008	6.000	0.008
726	5.20	5.10	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	83015.88	0.008	6.000	0.008
727	5.10	5.00	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	84151.02	0.008	6.000	0.009
728	5.00	4.90	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	85286.15	0.008	6.000	0.009
729	4.90	4.80	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	86421.28	0.008	6.000	0.009
730	4.80	4.70	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	87556.41	0.009	6.000	0.009
731	4.70	4.60	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	88691.55	0.009	6.000	0.009
732	4.60	4.50	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	89826.68	0.009	6.000	0.009
733	4.50	4.40	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	90961.81	0.009	6.000	0.009
734	4.40	4.30	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	92096.95	0.009	6.000	0.009
735	4.30	4.20	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	93232.08	0.009	6.000	0.009
736	4.20	4.10	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	94367.21	0.009	6.000	0.010
737	4.10	4.00	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	95502.34	0.009	6.000	0.010
738	4.00	3.90	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	96637.48	0.009	6.000	0.010
739	3.90	3.80	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	97772.61	0.010	6.000	0.010
740	3.80	3.70	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	98907.74	0.010	6.000	0.010
741	3.70	3.60	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	100042.88	0.010	6.000	0.010
742	3.60	3.50	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	101178.01	0.010	6.000	0.010
743	3.50	3.40	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	102313.14	0.010	6.000	0.010
744	3.40	3.30	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	103448.27	0.010	6.000	0.010
745	3.30	3.20	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	104583.41	0.010	6.000	0.010
746	3.20	3.10	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	105718.54	0.010	6.000	0.011
747	3.10	3.00	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	106853.67	0.010	6.000	0.011
748	3.00	2.90	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	107988.80	0.011	6.000	0.011
749	2.90	2.80	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	109123.94	0.011	6.000	0.011
750	2.80	2.70	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	110259.07	0.011	6.000	0.011
751	2.70	2.60	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	111394.20	0.011	6.000	0.011
752	2.60	2.50	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	112529.34	0.011	6.000	0.011
753	2.50	2.40	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	113664.47	0.011	6.000	0.011
754	2.40	2.30	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	114799.60	0.011	6.000	0.011
755	2.30	2.20	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	115934.73	0.011	6.000	0.012
756	2.20	2.10	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	117069.87	0.011	6.000	0.012
757	2.10	2.00	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	118205.00	0.012	6.000	0.012
758	2.00	1.90	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	119340.13	0.012	6.000	0.012
759	1.90	1.80	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	120475.27	0.012	6.000	0.012
760	1.80	1.70	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	121610.40	0.012	6.000	0.012
761	1.70	1.60	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	122745.53	0.012	6.000	0.012
762	1.60	1.50	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	123880.66	0.012	6.000	0.012
763	1.50	1.40	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	125015.80	0.012	6.000	0.012
764	1.40	1.30	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	126150.93	0.012	6.000	0.013
765	1.30	1.20	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	127286.06	0.013	6.000	0.013
766	1.20	1.10	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	128421.20	0.013	6.000	0.013
767	1.10	1.00	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	129556.33	0.013	6.000	0.013
768	1.00	0.90	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	130691.46	0.013	6.000	0.013
769	0.90	0.80	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	131826.59	0.013	6.000	0.013
770	0.80	0.70	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	132961.73	0.013	6.000	0.013
771	0.70	0.60	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	134096.88	0.013	6.000	0.013
772	0.60	0.50	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	135232.02	0.013	6.000	0.013
773	0.50	0.40	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	136367.16	0.013	6.000	0.014
774	0.40	0.30	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	137502.30	0.014	6.000	0.014
TOT						20.39			1312426.25	433144.00					
AVG					0.0033		3.03	74.68			226.28				
CUM						49.95									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
717	6.000	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.09	0.06	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
718	5.900	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.09	0.06	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
719	5.800	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.09	0.06	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
720	5.700	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
721	5.600	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
722	5.500	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
723	5.400	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
724	5.300	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
725	5.200	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
726	5.100	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
727	5.000	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
728	4.900	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
729	4.800	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
730	4.700	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
731	4.600	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
732	4.500	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
733	4.400	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
734	4.300	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00

735	4.200	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
736	4.100	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
737	4.000	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
738	3.900	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
739	3.800	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
740	3.700	8.18	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
741	3.600	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
742	3.500	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
743	3.400	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
744	3.300	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
745	3.200	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
746	3.100	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
747	3.000	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
748	2.900	8.16	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
749	2.800	8.16	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
750	2.700	8.16	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
751	2.600	8.16	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
752	2.500	8.15	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
753	2.400	8.15	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
754	2.300	8.15	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
755	2.200	8.14	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
756	2.100	8.14	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
757	2.000	8.13	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
758	1.900	8.13	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
759	1.800	8.12	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
760	1.700	8.12	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
761	1.600	8.11	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
762	1.500	8.11	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
763	1.400	8.10	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
764	1.300	8.09	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
765	1.200	8.09	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
766	1.100	8.08	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
767	1.000	8.07	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
768	0.900	8.06	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
769	0.800	8.05	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
770	0.700	8.04	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
771	0.600	8.03	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.09	0.06	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
772	0.500	8.02	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.09	0.06	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
773	0.400	8.01	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
774	0.300	8.00	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.23	0.05	0.05	0.00	0.00	0.00	0.00	1.50			0.06	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
717	6.000	25.48	0.32	174.26	614.41	5.75	9.96	0.00	9.96	0.00	1.53	0.00	0.00	0.00	0.00	17.11	0.00	0.	0.00
718	5.900	25.47	0.34	183.16	640.50	5.78	9.94	0.00	9.94	0.00	1.56	0.00	0.00	0.00	0.00	17.01	0.00	0.	0.00
719	5.800	25.46	0.35	192.54	668.03	5.81	9.92	0.00	9.92	0.00	1.60	0.00	0.00	0.00	0.00	16.92	0.00	0.	0.00
720	5.700	25.45	0.37	202.44	697.07	5.84	9.90	0.00	9.90	0.00	1.63	0.00	0.00	0.00	0.00	16.82	0.00	0.	0.00
721	5.600	25.45	0.39	212.88	727.71	5.86	9.88	0.00	9.88	0.00	1.66	0.00	0.00	0.00	0.00	16.73	0.00	0.	0.00
722	5.500	25.44	0.41	223.89	760.02	5.88	9.86	0.00	9.86	0.00	1.69	0.00	0.00	0.00	0.00	16.63	0.00	0.	0.00
723	5.400	25.43	0.43	235.51	794.11	5.90	9.84	0.00	9.84	0.00	1.72	0.00	0.00	0.00	0.00	16.54	0.00	0.	0.00
724	5.300	25.42	0.45	247.76	830.07	5.92	9.82	0.00	9.82	0.00	1.74	0.00	0.00	0.00	0.00	16.44	0.00	0.	0.00
725	5.200	25.41	0.47	260.69	868.01	5.93	9.80	0.00	9.80	0.00	1.77	0.00	0.00	0.00	0.00	16.35	0.00	0.	0.00
726	5.100	25.40	0.49	274.33	908.02	5.95	9.79	0.00	9.79	0.00	1.80	0.00	0.00	0.00	0.00	16.25	0.00	0.	0.00
727	5.000	25.39	0.52	288.71	950.24	5.96	9.77	0.00	9.77	0.00	1.82	0.00	0.00	0.00	0.00	16.16	0.00	0.	0.00
728	4.900	25.38	0.54	303.89	994.76	5.97	9.75	0.00	9.75	0.00	1.84	0.00	0.00	0.00	0.00	16.06	0.00	0.	0.00
729	4.800	25.37	0.57	319.90	1041.74	5.98	9.73	0.00	9.73	0.00	1.87	0.00	0.00	0.00	0.00	15.97	0.00	0.	0.00
730	4.700	25.36	0.60	336.78	1091.29	5.99	9.71	0.00	9.71	0.00	1.89	0.00	0.00	0.00	0.00	15.87	0.00	0.	0.00
731	4.600	25.36	0.63	354.59	1143.56	5.99	9.69	0.00	9.69	0.00	1.91	0.00	0.00	0.00	0.00	15.78	0.00	0.	0.00
732	4.500	25.35	0.66	373.39	1198.69	6.00	9.67	0.00	9.67	0.00	1.93	0.00	0.00	0.00	0.00	15.68	0.00	0.	0.00
733	4.400	25.34	0.69	393.21	1256.86	6.01	9.65	0.00	9.65	0.00	1.95	0.00	0.00	0.00	0.00	15.59	0.00	0.	0.00
734	4.300	25.33	0.73	414.12	1318.21	6.01	9.63	0.00	9.63	0.00	1.97	0.00	0.00	0.00	0.00	15.49	0.00	0.	0.00
735	4.200	25.32	0.77	436.17	1382.94	6.01	9.61	0.00	9.61	0.00	1.98	0.00	0.00	0.00	0.00	15.40	0.00	0.	0.00
736	4.100	25.31	0.81	459.44	1451.21	6.02	9.59	0.00	9.59	0.00	2.00	0.00	0.00	0.00	0.00	15.30	0.00	0.	0.00
737	4.000	25.30	0.85	483.99	1523.23	6.02	9.57	0.00	9.57	0.00	2.02	0.00	0.00	0.00	0.00	15.21	0.00	0.	0.00
738	3.900	25.29	0.89	509.88	1599.21	6.02	9.55	0.00	9.55	0.00	2.03	0.00	0.00	0.00	0.00	15.11	0.00	0.	0.00
739	3.800	25.28	0.94	537.19	1679.35	6.02	9.53	0.00	9.53	0.00	2.05	0.00	0.00	0.00	0.00	15.02	0.00	0.	0.00
740	3.700	25.27	0.99	566.00	1763.89	6.02	9.50	0.00	9.50	0.00	2.06	0.00	0.00	0.00	0.00	14.92	0.00	0.	0.00
741	3.600	25.27	1.04	596.39	1853.08	6.02	9.48	0.00	9.48	0.00	2.07	0.00	0.00	0.00	0.00	14.83	0.00	0.	0.00
742	3.500	25.26	1.09	628.45	1947.15	6.02	9.45	0.00	9.45	0.00	2.08	0.00	0.00	0.00	0.00	14.73	0.00	0.	0.00
743	3.400	25.25	1.15	662.27	2046.39	6.02	9.42	0.00	9.42	0.00	2.09	0.00	0.00	0.00	0.00	14.64	0.00	0.	0.00
744	3.300	25.24	1.21	697.95	2151.08	6.02	9.39	0.00	9.39	0.00	2.10	0.00	0.00	0.00	0.00	14.54	0.00	0.	0.00
745	3.200	25.23	1.27	735.58	2261.51	6.02	9.36	0.00	9.36	0.00	2.11	0.00	0.00	0.00	0.00	14.45	0.00	0.	0.00
746	3.100	25.22	1.34	775.28	2378.00	6.02	9.33	0.00	9.33	0.00	2.12	0.00	0.00	0.00	0.00	14.36	0.00	0.	0.00
747	3.000	25.21	1.41	817.16	2500.88	6.03	9.30	0.00	9.30	0.00	2.12	0.00	0.00	0.00	0.00	14.26	0.00	0.	0.00
748	2.900	25.20	1.49	861.34	2630.51	6.03	9.26	0.00	9.26	0.00	2.13	0.00	0.00	0.00	0.00	14.17	0.00	0.	0.00
749	2.800	25.19	1.57	907.94	2767.26	6.03	9.22	0.00	9.22	0.00	2.13	0.00	0.00	0.00	0.00	14.07	0.00	0.	0.00

750	2.700	25.19	1.65	957.10	2911.50	6.03	9.18	0.00	9.18	0.00	2.13	0.00	0.00	0.00	0.00	13.98	0.00	0.	0.00
751	2.600	25.18	1.74	1008.95	3063.67	6.04	9.13	0.00	9.13	0.00	2.13	0.00	0.00	0.00	0.00	13.88	0.00	0.	0.00
752	2.500	25.17	1.83	1063.66	3224.18	6.04	9.09	0.00	9.09	0.00	2.13	0.00	0.00	0.00	0.00	13.79	0.00	0.	0.00
753	2.400	25.16	1.93	1121.36	3393.50	6.05	9.04	0.00	9.04	0.00	2.13	0.00	0.00	0.00	0.00	13.69	0.00	0.	0.00
754	2.300	25.15	2.03	1182.23	3572.12	6.05	8.98	0.00	8.98	0.00	2.13	0.00	0.00	0.00	0.00	13.60	0.00	0.	0.00
755	2.200	25.14	2.14	1246.44	3760.54	6.06	8.92	0.00	8.92	0.00	2.12	0.00	0.00	0.00	0.00	13.50	0.00	0.	0.00
756	2.100	25.13	2.25	1314.18	3959.30	6.07	8.86	0.00	8.86	0.00	2.11	0.00	0.00	0.00	0.00	13.41	0.00	0.	0.00
757	2.000	25.12	2.38	1385.63	4168.96	6.09	8.79	0.00	8.79	0.00	2.10	0.00	0.00	0.00	0.00	13.31	0.00	0.	0.00
758	1.900	25.11	2.50	1461.00	4390.14	6.10	8.72	0.00	8.72	0.00	2.09	0.00	0.00	0.00	0.00	13.22	0.00	0.	0.00
759	1.800	25.10	2.64	1540.52	4623.45	6.12	8.64	0.00	8.64	0.00	2.08	0.00	0.00	0.00	0.00	13.12	0.00	0.	0.00
760	1.700	25.10	2.78	1624.39	4869.56	6.14	8.55	0.00	8.55	0.00	2.06	0.00	0.00	0.00	0.00	13.03	0.00	0.	0.00
761	1.600	25.09	2.93	1712.87	5129.19	6.16	8.46	0.00	8.46	0.00	2.05	0.00	0.00	0.00	0.00	12.93	0.00	0.	0.00
762	1.500	25.08	3.09	1806.20	5403.06	6.18	8.36	0.00	8.36	0.00	2.03	0.00	0.00	0.00	0.00	12.84	0.00	0.	0.00
763	1.400	25.07	3.25	1904.66	5691.96	6.21	8.25	0.00	8.25	0.00	2.00	0.00	0.00	0.00	0.00	12.74	0.00	0.	0.00
764	1.300	25.06	3.43	2008.51	5996.71	6.24	8.13	0.00	8.13	0.00	1.97	0.00	0.00	0.00	0.00	12.65	0.00	0.	0.00
765	1.200	25.05	3.62	2118.07	6318.19	6.27	8.01	0.00	8.01	0.00	1.94	0.00	0.00	0.00	0.00	12.55	0.00	0.	0.00
766	1.100	25.04	3.81	2233.64	6657.32	6.31	7.87	0.00	7.87	0.00	1.91	0.00	0.00	0.00	0.00	12.46	0.00	0.	0.00
767	1.000	25.03	4.02	2355.56	7015.05	6.36	7.72	0.00	7.72	0.00	1.87	0.00	0.00	0.00	0.00	12.36	0.00	0.	0.00
768	0.900	25.02	4.24	2484.16	7392.42	6.40	7.56	0.00	7.56	0.00	1.83	0.00	0.00	0.00	0.00	12.27	0.00	0.	0.00
769	0.800	25.01	4.47	2619.82	7790.50	6.46	7.39	0.00	7.39	0.00	1.78	0.00	0.00	0.00	0.00	12.17	0.00	0.	0.00
770	0.700	25.01	4.71	2762.93	8210.42	6.52	7.20	0.00	7.20	0.00	1.73	0.00	0.00	0.00	0.00	12.08	0.00	0.	0.00
771	0.600	25.00	4.96	2913.89	8653.40	6.58	7.00	0.00	7.00	0.00	1.67	0.00	0.00	0.00	0.00	11.98	0.00	0.	0.00
772	0.500	24.99	5.23	3073.14	9120.68	6.65	6.78	0.00	6.78	0.00	1.61	0.00	0.00	0.00	0.00	11.89	0.00	0.	0.00
773	0.400	24.98	5.52	3241.12	9613.60	6.73	6.54	0.00	6.54	0.00	1.54	0.00	0.00	0.00	0.00	11.79	0.00	0.	0.00
774	0.300	24.97	5.82	3418.33	10133.58	6.81	6.28	0.00	6.28	0.00	1.47	0.00	0.00	0.00	0.00	11.70	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 41 BL09 to Lake Pontchartrain — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
775	UPR RCH	0.74511	24.97	5.82	3418.33	10133.58	6.81	6.28	0.00	6.28	0.00	1.47	0.00	0.00	0.00	11.70	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
775	0.30	0.20	0.74511	2.2	0.00417	0.28	1.80	99.36	17884.80	9936.00	178.85	139012.56	0.017	7.500	0.017
776	0.20	0.10	0.74511	2.2	0.00417	0.28	1.80	99.36	17884.80	9936.00	178.85	140522.83	0.017	7.500	0.018
777	0.10	0.00	0.74511	2.2	0.00417	0.28	1.80	99.36	17884.80	9936.00	178.85	142033.09	0.018	7.500	0.018
TOT						0.83			53654.40	29808.00					
AVG					0.0042		1.80	99.36			178.85				
CUM						50.78									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
775	0.200	7.98	0.43	0.08	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.06	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
776	0.100	7.97	0.43	0.08	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.06	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
777	0.000	7.95	0.43	0.08	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.06	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.39	0.06	0.05	0.00	0.00	0.00	0.00	0.00			0.10	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
775	0.200	24.97	6.14	3606.39	10685.41	6.91	6.00	0.00	6.00	0.00	1.38	0.00	0.00	0.00	0.00	10.57	0.00	0.	0.00
776	0.100	24.97	6.47	3806.04	11271.25	7.00	5.66	0.00	5.66	0.00	1.30	0.00	0.00	0.00	0.00	9.43	0.00	0.	0.00
777	0.000	24.97	6.83	4016.78	11889.63	7.09	5.25	0.00	5.25	0.00	1.21	0.00	0.00	0.00	0.00	8.30	0.00	0.	0.00

STREAM SUMMARY — BAYOU LACOMBE WATERSHED MODEL
BAYOU LACOMBE — CALIBRATION

TRAVEL TIME = 50.78 DAYS

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MAXIMUM EFFLUENT  =          2.73 PERCENT

FLOW              =  0.11000 TO    0.74511   m³/s
DISPERSION        =  0.5000  TO    7.5000    m²/s
VELOCITY          =  0.00252 TO    0.29859   m/s
DEPTH             =  0.17    TO    3.60      m
WIDTH             =  5.79    TO   99.36      m

BOD DECAY         =   0.03   TO    0.08      per day
NH3 DECAY         =   0.00   TO    0.00      per day
SOD               =   0.00   TO    5.48      g/m²/d
NH3 SOURCE        =   0.00   TO    0.00      g/m²/d
REAERATION        =   0.21   TO    7.10      per day
BOD SETTLING      =   0.05   TO    0.06      per day
NBOD DECAY        =   0.00   TO    0.68      per day
NBOD SETTLING     =   0.05   TO    0.06      per day

TEMPERATURE       =  20.85   TO   25.85      deg C
DISSOLVED OXYGEN  =   3.12   TO    8.29      mg/L
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FINAL REPORT Ditch #1 Hwy 36 BL — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 2 Hwy 36 Ditch BL — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
11	HDWTR	0.00028	20.85	0.01	5.60	51.60	5.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
12	WSTLD	0.00018	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
40	WSTLD	0.00011	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
11	4.20	4.10	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
12	4.10	4.00	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
13	4.00	3.90	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
14	3.90	3.80	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
15	3.80	3.70	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
16	3.70	3.60	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
17	3.60	3.50	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
18	3.50	3.40	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
19	3.40	3.30	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
20	3.30	3.20	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
21	3.20	3.10	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
22	3.10	3.00	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
23	3.00	2.90	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
24	2.90	2.80	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
25	2.80	2.70	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
26	2.70	2.60	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
27	2.60	2.50	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
28	2.50	2.40	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
29	2.40	2.30	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
30	2.30	2.20	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
31	2.20	2.10	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
32	2.10	2.00	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
33	2.00	1.90	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
34	1.90	1.80	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
35	1.80	1.70	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
36	1.70	1.60	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
37	1.60	1.50	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
38	1.50	1.40	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
39	1.40	1.30	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
40	1.30	1.20	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
41	1.20	1.10	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
42	1.10	1.00	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
43	1.00	0.90	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
44	0.90	0.80	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
45	0.80	0.70	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
46	0.70	0.60	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
47	0.60	0.50	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
48	0.50	0.40	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
49	0.40	0.30	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
50	0.30	0.20	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
51	0.20	0.10	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
52	0.10	0.00	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011

TOT								5.11									210.00	4200.00					
AVG						0.0095			0.05	1.00									0.05				
CUM								5.11															

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
11	4.100	8.94	15.13	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	4.000	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	3.900	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	3.800	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	3.700	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	3.600	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	3.500	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	3.400	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	3.300	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	3.200	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	3.100	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	3.000	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	2.900	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	2.800	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	2.700	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	2.600	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	2.500	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	2.400	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	2.300	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	2.200	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	2.100	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	2.000	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	1.900	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	1.800	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	1.700	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	1.600	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	1.500	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	1.400	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	1.300	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	1.200	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	1.100	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	1.000	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	0.900	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	0.800	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.700	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	0.600	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	0.500	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	0.400	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.300	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	0.200	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	0.100	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	0.000	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			16.04	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
11	4.100	20.85	0.01	5.60	51.60	7.45	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
12	4.000	20.85	0.15	25.74	308.83	7.19	27.49	0.00	27.49	0.00	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
13	3.900	20.85	0.15	25.74	308.83	7.80	27.07	0.00	27.07	0.00	24.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
14	3.800	20.85	0.15	25.74	308.83	8.00	26.65	0.00	26.65	0.00	24.69	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
15	3.700	20.85	0.15	25.74	308.83	8.06	26.24	0.00	26.24	0.00	24.45	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
16	3.600	20.85	0.15	25.74	308.83	8.09	25.84	0.00	25.84	0.00	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
17	3.500	20.85	0.15	25.74	308.83	8.10	25.44	0.00	25.44	0.00	23.96	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
18	3.400	20.85	0.15	25.74	308.83	8.10	25.05	0.00	25.05	0.00	23.72	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
19	3.300	20.85	0.15	25.74	308.83	8.11	24.67	0.00	24.67	0.00	23.48	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
20	3.200	20.85	0.15	25.74	308.83	8.11	24.29	0.00	24.29	0.00	23.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
21	3.100	20.85	0.15	25.74	308.83	8.11	23.92	0.00	23.92	0.00	23.02	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
22	3.000	20.85	0.15	25.74	308.83	8.11	23.56	0.00	23.56	0.00	22.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
23	2.900	20.85	0.15	25.74	308.83	8.11	23.20	0.00	23.20	0.00	22.56	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
24	2.800	20.85	0.15	25.74	308.83	8.12	22.85	0.00	22.85	0.00	22.34	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
25	2.700	20.85	0.15	25.74	308.83	8.12	22.50	0.00	22.50	0.00	22.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
26	2.600	20.85	0.15	25.74	308.83	8.12	22.16	0.00	22.16	0.00	21.89	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
27	2.500	20.85	0.15	25.74	308.83	8.12	21.83	0.00	21.83	0.00	21.68	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
28	2.400	20.85	0.15	25.74	308.83	8.13	21.50	0.00	21.50	0.00	21.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
29	2.300	20.85	0.15	25.74	308.83	8.13	21.18	0.00	21.18	0.00	21.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
30	2.200	20.85	0.15	25.74	308.83	8.13	20.86	0.00	20.86	0.00	21.04	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

31	2.100	20.85	0.15	25.74	308.83	8.13	20.55	0.00	20.55	0.00	20.83	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
32	2.000	20.85	0.15	25.74	308.83	8.13	20.24	0.00	20.24	0.00	20.62	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
33	1.900	20.85	0.15	25.74	308.83	8.14	19.94	0.00	19.94	0.00	20.42	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
34	1.800	20.85	0.15	25.74	308.83	8.14	19.64	0.00	19.64	0.00	20.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
35	1.700	20.85	0.15	25.74	308.83	8.14	19.35	0.00	19.35	0.00	20.01	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
36	1.600	20.85	0.15	25.74	308.83	8.14	19.06	0.00	19.06	0.00	19.82	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
37	1.500	20.85	0.15	25.74	308.83	8.14	18.78	0.00	18.78	0.00	19.62	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
38	1.400	20.85	0.15	25.74	308.83	8.15	18.50	0.00	18.50	0.00	19.43	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
39	1.300	20.85	0.15	25.74	308.83	8.15	18.23	0.00	18.23	0.00	19.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
40	1.200	20.85	0.19	31.77	385.95	7.68	33.80	0.00	33.80	0.00	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
41	1.100	20.85	0.19	31.77	385.95	7.94	33.37	0.00	33.37	0.00	27.28	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
42	1.000	20.85	0.19	31.77	385.95	8.03	32.94	0.00	32.94	0.00	27.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
43	0.900	20.85	0.19	31.77	385.95	8.07	32.52	0.00	32.52	0.00	26.84	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
44	0.800	20.85	0.19	31.77	385.95	8.08	32.11	0.00	32.11	0.00	26.62	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
45	0.700	20.85	0.19	31.77	385.95	8.09	31.70	0.00	31.70	0.00	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
46	0.600	20.85	0.19	31.77	385.95	8.09	31.30	0.00	31.30	0.00	26.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
47	0.500	20.85	0.19	31.77	385.95	8.10	30.90	0.00	30.90	0.00	25.97	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
48	0.400	20.85	0.19	31.77	385.95	8.10	30.51	0.00	30.51	0.00	25.76	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
49	0.300	20.85	0.19	31.77	385.95	8.10	30.12	0.00	30.12	0.00	25.55	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
50	0.200	20.85	0.19	31.77	385.95	8.10	29.74	0.00	29.74	0.00	25.34	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
51	0.100	20.85	0.19	31.77	385.95	8.11	29.36	0.00	29.36	0.00	25.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
52	0.000	20.85	0.19	31.77	385.95	8.11	28.99	0.00	28.99	0.00	24.93	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch #1 Hwy 36 BL

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME = 5.11 DAYS

MAXIMUM EFFLUENT = 50.04 PERCENT

FLOW	=	0.00028	TO	0.00056	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.01121	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.08	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.53	TO	0.53	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.13	TO	16.76	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	20.85	TO	20.85	deg C
DISSOLVED OXYGEN	=	7.19	TO	8.15	mg/L

FINAL REPORT Ditch #2 SNG ditch
REACH NO. 6 SNG Ditch

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
168	HDWTR	0.00028	20.85	0.01	5.60	51.60	5.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
169	WSTLD	0.00011	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
168	2.10	2.00	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
169	2.00	1.90	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
170	1.90	1.80	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
171	1.80	1.70	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
172	1.70	1.60	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
173	1.60	1.50	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
174	1.50	1.40	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
175	1.40	1.30	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
176	1.30	1.20	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
177	1.20	1.10	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
178	1.10	1.00	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
179	1.00	0.90	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
180	0.90	0.80	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
181	0.80	0.70	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
182	0.70	0.60	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008

183	0.60	0.50	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
184	0.50	0.40	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
185	0.40	0.30	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
186	0.30	0.20	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
187	0.20	0.10	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
188	0.10	0.00	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
TOT						3.18			105.00	2100.00					
AVG					0.0076		0.05	1.00			0.05				
CUM						3.18									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
168	2.000	8.74	15.48	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169	1.900	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	1.800	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	1.700	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1.600	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173	1.500	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	1.400	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	1.300	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	1.200	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	1.100	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	1.000	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179	0.900	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.800	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
181	0.700	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
182	0.600	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183	0.500	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184	0.400	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
185	0.300	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
186	0.200	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
187	0.100	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188	0.000	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			15.48	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
168	2.000	22.03	0.01	5.60	51.60	7.28	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
169	1.900	22.03	0.11	20.30	239.42	7.23	30.10	0.00	30.10	0.00	18.63	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
170	1.800	22.03	0.11	20.30	239.42	7.65	29.53	0.00	29.53	0.00	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
171	1.700	22.03	0.11	20.30	239.42	7.78	28.97	0.00	28.97	0.00	18.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
172	1.600	22.03	0.11	20.30	239.42	7.82	28.42	0.00	28.42	0.00	17.96	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
173	1.500	22.03	0.11	20.30	239.42	7.83	27.88	0.00	27.88	0.00	17.74	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
174	1.400	22.03	0.11	20.30	239.42	7.84	27.36	0.00	27.36	0.00	17.53	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
175	1.300	22.03	0.11	20.30	239.42	7.84	26.85	0.00	26.85	0.00	17.32	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
176	1.200	22.03	0.11	20.30	239.42	7.85	26.34	0.00	26.34	0.00	17.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
177	1.100	22.03	0.11	20.30	239.42	7.85	25.85	0.00	25.85	0.00	16.91	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
178	1.000	22.03	0.11	20.30	239.42	7.85	25.36	0.00	25.36	0.00	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
179	0.900	22.03	0.11	20.30	239.42	7.86	24.89	0.00	24.89	0.00	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
180	0.800	22.03	0.11	20.30	239.42	7.86	24.43	0.00	24.43	0.00	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
181	0.700	22.03	0.11	20.30	239.42	7.86	23.97	0.00	23.97	0.00	16.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
182	0.600	22.03	0.11	20.30	239.42	7.87	23.53	0.00	23.53	0.00	15.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
183	0.500	22.03	0.11	20.30	239.42	7.87	23.09	0.00	23.09	0.00	15.73	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
184	0.400	22.03	0.11	20.30	239.42	7.87	22.66	0.00	22.66	0.00	15.54	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
185	0.300	22.03	0.11	20.30	239.42	7.87	22.25	0.00	22.25	0.00	15.35	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
186	0.200	22.03	0.11	20.30	239.42	7.88	21.84	0.00	21.84	0.00	15.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
187	0.100	22.03	0.11	20.30	239.42	7.88	21.43	0.00	21.43	0.00	14.99	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
188	0.000	22.03	0.11	20.30	239.42	7.88	21.04	0.00	21.04	0.00	14.81	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch #2 SNG ditch

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME = 3.18 DAYS

MAXIMUM EFFLUENT = 28.11 PERCENT

FLOW = 0.00028 TO 0.00039 m³/s
DISPERSION = 0.0000 TO 0.0000 m²/s
VELOCITY = 0.00560 TO 0.00779 m/s
DEPTH = 0.05 TO 0.05 m

WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.57	TO	0.57	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.48	TO	16.13	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	22.03	TO	22.03	deg C
DISSOLVED OXYGEN	=	7.23	TO	7.88	mg/L

FINAL REPORT Ditch#3Hwy434/I-12BL BAYOU LACOMBE WATERSHED MODEL
REACH NO. 8 Hwy 434/I-12 Ditch BL CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
192	HDWTR	0.00028	20.85	0.01	5.60	51.60	5.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
196	WSTLD	0.00004	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
206	WSTLD	0.00022	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
208	WSTLD	0.00046	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
192	3.00	2.90	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
193	2.90	2.80	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
194	2.80	2.70	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
195	2.70	2.60	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
196	2.60	2.50	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
197	2.50	2.40	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
198	2.40	2.30	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
199	2.30	2.20	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
200	2.20	2.10	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
201	2.10	2.00	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
202	2.00	1.90	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
203	1.90	1.80	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
204	1.80	1.70	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
205	1.70	1.60	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
206	1.60	1.50	0.00055	48.8	0.01094	0.11	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
207	1.50	1.40	0.00055	48.8	0.01094	0.11	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
208	1.40	1.30	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
209	1.30	1.20	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
210	1.20	1.10	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
211	1.10	1.00	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
212	1.00	0.90	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
213	0.90	0.80	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
214	0.80	0.70	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
215	0.70	0.60	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
216	0.60	0.50	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
217	0.50	0.40	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
218	0.40	0.30	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
219	0.30	0.20	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
220	0.20	0.10	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
221	0.10	0.00	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
TOT						3.63			150.00	3000.00					
AVG					0.0096		0.05	1.00			0.05				
CUM						3.63									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
192	2.900	8.74	15.48	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
193	2.800	8.74	15.48	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
194	2.700	8.74	15.48	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195	2.600	8.74	15.48	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
196	2.500	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	2.400	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

198	2.300	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199	2.200	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	2.100	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
201	2.000	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202	1.900	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
203	1.800	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
204	1.700	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
205	1.600	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
206	1.500	8.73	17.07	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
207	1.400	8.73	17.07	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	1.300	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
209	1.200	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210	1.100	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
211	1.000	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
212	0.900	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
213	0.800	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
214	0.700	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
215	0.600	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
216	0.500	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217	0.400	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
218	0.300	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
219	0.200	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220	0.100	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221	0.000	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			17.00	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
192	2.900	22.03	0.01	5.60	51.60	7.28	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
193	2.800	22.03	0.01	5.60	51.60	7.82	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
194	2.700	22.03	0.01	5.60	51.60	7.95	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
195	2.600	22.03	0.01	5.60	51.60	7.98	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
196	2.500	22.03	0.06	12.67	141.97	7.71	15.57	0.00	15.57	0.00	9.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
197	2.400	22.03	0.06	12.67	141.97	7.86	15.24	0.00	15.24	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
198	2.300	22.03	0.06	12.67	141.97	7.90	14.92	0.00	14.92	0.00	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
199	2.200	22.03	0.06	12.67	141.97	7.91	14.61	0.00	14.61	0.00	9.08	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
200	2.100	22.03	0.06	12.67	141.97	7.91	14.30	0.00	14.30	0.00	8.95	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
201	2.000	22.03	0.06	12.67	141.97	7.92	14.01	0.00	14.01	0.00	8.83	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
202	1.900	22.03	0.06	12.67	141.97	7.92	13.72	0.00	13.72	0.00	8.71	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
203	1.800	22.03	0.06	12.67	141.97	7.92	13.44	0.00	13.44	0.00	8.59	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
204	1.700	22.03	0.06	12.67	141.97	7.92	13.16	0.00	13.16	0.00	8.48	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
205	1.600	22.03	0.06	12.67	141.97	7.92	12.89	0.00	12.89	0.00	8.36	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
206	1.500	22.03	0.19	31.12	377.59	6.95	49.15	0.00	49.15	0.00	30.98	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
207	1.400	22.03	0.19	31.12	377.59	7.47	48.46	0.00	48.46	0.00	30.71	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
208	1.300	22.03	0.27	43.33	533.56	6.49	57.38	0.00	57.38	0.00	45.89	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
209	1.200	22.03	0.27	43.33	533.56	7.20	56.94	0.00	56.94	0.00	45.67	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
210	1.100	22.03	0.27	43.33	533.56	7.53	56.50	0.00	56.50	0.00	45.45	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
211	1.000	22.03	0.27	43.33	533.56	7.69	56.06	0.00	56.06	0.00	45.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
212	0.900	22.03	0.27	43.33	533.56	7.76	55.63	0.00	55.63	0.00	45.01	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
213	0.800	22.03	0.27	43.33	533.56	7.80	55.20	0.00	55.20	0.00	44.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
214	0.700	22.03	0.27	43.33	533.56	7.81	54.78	0.00	54.78	0.00	44.57	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
215	0.600	22.03	0.27	43.33	533.56	7.82	54.36	0.00	54.36	0.00	44.36	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
216	0.500	22.03	0.27	43.33	533.56	7.83	53.94	0.00	53.94	0.00	44.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
217	0.400	22.03	0.27	43.33	533.56	7.83	53.52	0.00	53.52	0.00	43.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
218	0.300	22.03	0.27	43.33	533.56	7.84	53.11	0.00	53.11	0.00	43.71	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
219	0.200	22.03	0.27	43.33	533.56	7.84	52.70	0.00	52.70	0.00	43.50	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
220	0.100	22.03	0.27	43.33	533.56	7.84	52.30	0.00	52.30	0.00	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
221	0.000	22.03	0.27	43.33	533.56	7.84	51.90	0.00	51.90	0.00	43.08	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch#3Hwy434/I-12BL

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME = 3.63 DAYS

MAXIMUM EFFLUENT = 72.14 PERCENT

FLOW	=	0.00028	TO	0.00100	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.02010	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.57	TO	0.57	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d

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REAERATION        =   15.48   TO   19.79      per day
BOD SETTLING      =    0.05   TO    0.05      per day
NBOD DECAY        =    0.03   TO    0.03      per day
NBOD SETTLING     =    0.05   TO    0.05      per day

TEMPERATURE       =   22.03   TO   22.03      deg C
DISSOLVED OXYGEN  =    6.49   TO    7.98      mg/L


FINAL REPORT    Ditch #4 Keller Barn                          BAYOU LACOMBE WATERSHED MODEL
REACH NO. 11    Keller Barn Ditch                             CALIBRATION
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********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
240	HDWTR	0.00028	20.85	0.01	5.60	51.60	5.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
241	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
240	0.90	0.80	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
241	0.80	0.70	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
242	0.70	0.60	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
243	0.60	0.50	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
244	0.50	0.40	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
245	0.40	0.30	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
246	0.30	0.20	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
247	0.20	0.10	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
248	0.10	0.00	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
TOT						1.82			45.00	900.00					
AVG					0.0057		0.05	1.00			0.05				
CUM						1.82									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
240	0.800	8.64	15.66	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
241	0.700	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
242	0.600	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
243	0.500	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
244	0.400	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
245	0.300	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
246	0.200	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247	0.100	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	0.000	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			14.91	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
240	0.800	22.64	0.01	5.60	51.60	7.19	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
241	0.700	22.64	0.02	6.72	65.84	7.67	3.58	0.00	3.58	0.00	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
242	0.600	22.64	0.02	6.72	65.84	7.81	3.54	0.00	3.54	0.00	2.31	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
243	0.500	22.64	0.02	6.72	65.84	7.85	3.50	0.00	3.50	0.00	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
244	0.400	22.64	0.02	6.72	65.84	7.86	3.47	0.00	3.47	0.00	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
245	0.300	22.64	0.02	6.72	65.84	7.86	3.43	0.00	3.43	0.00	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
246	0.200	22.64	0.02	6.72	65.84	7.86	3.39	0.00	3.39	0.00	2.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
247	0.100	22.64	0.02	6.72	65.84	7.86	3.36	0.00	3.36	0.00	2.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
248	0.000	22.64	0.02	6.72	65.84	7.86	3.33	0.00	3.33	0.00	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

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STREAM SUMMARY                                                BAYOU LACOMBE WATERSHED MODEL
Ditch #4 Keller Barn                                          CALIBRATION

TRAVEL TIME       =           1.82 DAYS
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MAXIMUM EFFLUENT  =          2.13 PERCENT

FLOW              =   0.00028 TO    0.00029   m³/s
DISPERSION        =   0.0000  TO    0.0000    m²/s
VELOCITY          =   0.00560 TO    0.00572   m/s
DEPTH             =   0.05    TO    0.05      m
WIDTH             =   1.00    TO    1.00      m

BOD DECAY         =    0.09   TO    0.09      per day
NH3 DECAY         =    0.00   TO    0.00      per day
SOD               =    0.59   TO    0.59      g/m²/d
NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
REAERATION        =   15.66   TO   15.70      per day
BOD SETTLING      =    0.05   TO    0.05      per day
NBOD DECAY        =    0.04   TO    0.04      per day
NBOD SETTLING     =    0.05   TO    0.05      per day

TEMPERATURE       =   22.64   TO   22.64      deg C
DISSOLVED OXYGEN  =    7.19   TO    7.86      mg/L
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FINAL REPORT Ditch#5 Beau Village BAYOU LACOMBE WATERSHED MODEL
REACH NO. 13 Beau Village Ditch CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
276	HDWTR	0.00028	20.85	0.01	5.60	51.60	5.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
277	WSTLD	0.00105	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
276	3.00	2.90	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
277	2.90	2.80	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
278	2.80	2.70	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
279	2.70	2.60	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
280	2.60	2.50	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
281	2.50	2.40	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
282	2.40	2.30	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
283	2.30	2.20	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
284	2.20	2.10	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
285	2.10	2.00	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
286	2.00	1.90	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
287	1.90	1.80	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
288	1.80	1.70	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
289	1.70	1.60	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
290	1.60	1.50	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
291	1.50	1.40	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
292	1.40	1.30	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
293	1.30	1.20	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
294	1.20	1.10	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
295	1.10	1.00	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
296	1.00	0.90	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
297	0.90	0.80	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
298	0.80	0.70	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
299	0.70	0.60	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
300	0.60	0.50	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
301	0.50	0.40	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
302	0.40	0.30	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
303	0.30	0.20	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
304	0.20	0.10	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
305	0.10	0.00	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
TOT						1.47			150.00	3000.00					
AVG					0.0237		0.05	1.00			0.05				
CUM						1.47									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
276	2.900	8.64	15.66	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

277	2.800	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
278	2.700	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
279	2.600	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
280	2.500	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
281	2.400	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
282	2.300	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
283	2.200	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
284	2.100	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285	2.000	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
286	1.900	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
287	1.800	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
288	1.700	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
289	1.600	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
290	1.500	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
291	1.400	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292	1.300	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293	1.200	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
294	1.100	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
295	1.000	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
296	0.900	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
297	0.800	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
298	0.700	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299	0.600	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	0.500	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
301	0.400	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
302	0.300	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
303	0.200	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
304	0.100	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
305	0.000	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			20.69	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
276	2.900	22.64	0.01	5.60	51.60	7.19	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
277	2.800	22.64	0.29	46.90	579.21	5.47	18.52	0.00	18.52	0.00	34.04	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
278	2.700	22.64	0.29	46.90	579.21	6.68	18.42	0.00	18.42	0.00	33.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
279	2.600	22.64	0.29	46.90	579.21	7.31	18.32	0.00	18.32	0.00	33.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
280	2.500	22.64	0.29	46.90	579.21	7.62	18.22	0.00	18.22	0.00	33.66	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
281	2.400	22.64	0.29	46.90	579.21	7.79	18.12	0.00	18.12	0.00	33.54	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
282	2.300	22.64	0.29	46.90	579.21	7.87	18.02	0.00	18.02	0.00	33.41	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
283	2.200	22.64	0.29	46.90	579.21	7.91	17.93	0.00	17.93	0.00	33.29	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
284	2.100	22.64	0.29	46.90	579.21	7.93	17.83	0.00	17.83	0.00	33.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
285	2.000	22.64	0.29	46.90	579.21	7.95	17.73	0.00	17.73	0.00	33.04	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
286	1.900	22.64	0.29	46.90	579.21	7.95	17.63	0.00	17.63	0.00	32.91	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
287	1.800	22.64	0.29	46.90	579.21	7.96	17.54	0.00	17.54	0.00	32.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
288	1.700	22.64	0.29	46.90	579.21	7.96	17.44	0.00	17.44	0.00	32.67	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
289	1.600	22.64	0.29	46.90	579.21	7.96	17.35	0.00	17.35	0.00	32.55	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
290	1.500	22.64	0.29	46.90	579.21	7.96	17.25	0.00	17.25	0.00	32.42	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
291	1.400	22.64	0.29	46.90	579.21	7.96	17.16	0.00	17.16	0.00	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
292	1.300	22.64	0.29	46.90	579.21	7.96	17.07	0.00	17.07	0.00	32.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
293	1.200	22.64	0.29	46.90	579.21	7.96	16.98	0.00	16.98	0.00	32.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
294	1.100	22.64	0.29	46.90	579.21	7.96	16.88	0.00	16.88	0.00	31.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
295	1.000	22.64	0.29	46.90	579.21	7.96	16.79	0.00	16.79	0.00	31.82	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
296	0.900	22.64	0.29	46.90	579.21	7.96	16.70	0.00	16.70	0.00	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
297	0.800	22.64	0.29	46.90	579.21	7.96	16.61	0.00	16.61	0.00	31.59	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
298	0.700	22.64	0.29	46.90	579.21	7.97	16.52	0.00	16.52	0.00	31.47	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
299	0.600	22.64	0.29	46.90	579.21	7.97	16.43	0.00	16.43	0.00	31.35	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
300	0.500	22.64	0.29	46.90	579.21	7.97	16.35	0.00	16.35	0.00	31.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
301	0.400	22.64	0.29	46.90	579.21	7.97	16.26	0.00	16.26	0.00	31.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
302	0.300	22.64	0.29	46.90	579.21	7.97	16.17	0.00	16.17	0.00	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
303	0.200	22.64	0.29	46.90	579.21	7.97	16.08	0.00	16.08	0.00	30.88	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
304	0.100	22.64	0.29	46.90	579.21	7.97	16.00	0.00	16.00	0.00	30.77	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
305	0.000	22.64	0.29	46.90	579.21	7.97	15.91	0.00	15.91	0.00	30.65	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch#5 Beau Village

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME = 1.47 DAYS

MAXIMUM EFFLUENT = 78.97 PERCENT

FLOW	=	0.00028	TO	0.00133	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.02663	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m

BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.59	TO	0.59	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.66	TO	21.99	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.04	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	22.64	TO	22.64	deg C
DISSOLVED OXYGEN	=	5.47	TO	7.97	mg/L

FINAL REPORT Ditch #6 Hwy 190 BL — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 16 Hwy 190 Ditch BL — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
341	HDWTR	0.00028	20.85	0.01	5.60	51.60	4.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
342	WSTLD	0.00009	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
344	WSTLD	0.00008	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
349	WSTLD	0.00002	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
350	WSTLD	0.00034	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
352	WSTLD	0.00064	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
353	WSTLD	0.00004	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
354	WSTLD	0.00020	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
358	WSTLD	0.00014	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
360	WSTLD	0.00096	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
341	2.20	2.10	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
342	2.10	2.00	0.00037	23.4	0.00731	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
343	2.00	1.90	0.00037	23.4	0.00731	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
344	1.90	1.80	0.00044	36.7	0.00884	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
345	1.80	1.70	0.00044	36.7	0.00884	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
346	1.70	1.60	0.00044	36.7	0.00884	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
347	1.60	1.50	0.00044	36.7	0.00884	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
348	1.50	1.40	0.00044	36.7	0.00884	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
349	1.40	1.30	0.00046	39.0	0.00917	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
350	1.30	1.20	0.00080	64.9	0.01596	0.07	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.016
351	1.20	1.10	0.00080	64.9	0.01596	0.07	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.016
352	1.10	1.00	0.00144	80.6	0.02883	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.029
353	1.00	0.90	0.00148	81.1	0.02961	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.030
354	0.90	0.80	0.00168	83.4	0.03364	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.034
355	0.80	0.70	0.00168	83.4	0.03364	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.034
356	0.70	0.60	0.00168	83.4	0.03364	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.034
357	0.60	0.50	0.00168	83.4	0.03364	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.034
358	0.50	0.40	0.00182	84.6	0.03645	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.036
359	0.40	0.30	0.00182	84.6	0.03645	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.036
360	0.30	0.20	0.00279	90.0	0.05572	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
361	0.20	0.10	0.00279	90.0	0.05572	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
362	0.10	0.00	0.00279	90.0	0.05572	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
TOT						1.79			110.00	2200.00					
AVG					0.0142		0.05	1.00			0.05				
CUM						1.79									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
341	2.100	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
342	2.000	8.55	16.33	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
343	1.900	8.55	16.33	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
344	1.800	8.55	16.79	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
345	1.700	8.55	16.79	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
346	1.600	8.55	16.79	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
347	1.500	8.55	16.79	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
348	1.400	8.55	16.79	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
349	1.300	8.55	16.89	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00

350	1.200	8.55	18.95	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
351	1.100	8.55	18.95	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
352	1.000	8.54	22.86	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
353	0.900	8.54	23.10	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
354	0.800	8.54	24.32	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
355	0.700	8.54	24.32	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
356	0.600	8.54	24.32	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
357	0.500	8.54	24.32	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
358	0.400	8.54	25.17	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
359	0.300	8.54	25.17	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
360	0.200	8.54	26.56	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
361	0.100	8.54	26.56	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
362	0.000	8.54	26.56	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			19.70	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
341	2.100	23.12	0.01	5.60	51.60	6.89	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.48	0.00	0.	0.00
342	2.000	23.12	0.09	17.82	207.75	7.14	17.46	0.00	17.46	0.00	15.63	0.00	0.00	0.00	0.00	0.96	0.00	0.	0.00
343	1.900	23.12	0.09	17.82	207.75	7.53	17.11	0.00	17.11	0.00	15.43	0.00	0.00	0.00	0.00	1.45	0.00	0.	0.00
344	1.800	23.12	0.14	24.78	296.56	7.31	25.66	0.00	25.66	0.00	23.67	0.00	0.00	0.00	0.00	1.93	0.00	0.	0.00
345	1.700	23.12	0.14	24.78	296.56	7.54	25.22	0.00	25.22	0.00	23.41	0.00	0.00	0.00	0.00	2.41	0.00	0.	0.00
346	1.600	23.12	0.14	24.78	296.56	7.62	24.79	0.00	24.79	0.00	23.14	0.00	0.00	0.00	0.00	2.89	0.00	0.	0.00
347	1.500	23.12	0.14	24.78	296.56	7.64	24.37	0.00	24.37	0.00	22.88	0.00	0.00	0.00	0.00	3.37	0.00	0.	0.00
348	1.400	23.12	0.14	24.78	296.56	7.65	23.95	0.00	23.95	0.00	22.63	0.00	0.00	0.00	0.00	3.85	0.00	0.	0.00
349	1.300	23.12	0.15	25.97	311.88	7.59	26.38	0.00	26.38	0.00	23.88	0.00	0.00	0.00	0.00	4.34	0.00	0.	0.00
350	1.200	23.12	0.24	39.55	485.34	6.61	44.07	0.00	44.07	0.00	40.90	0.00	0.00	0.00	0.00	4.82	0.00	0.	0.00
351	1.100	23.12	0.24	39.55	485.34	7.20	43.63	0.00	43.63	0.00	40.64	0.00	0.00	0.00	0.00	5.30	0.00	0.	0.00
352	1.000	23.12	0.30	47.74	589.92	6.24	54.64	0.00	54.64	0.00	51.11	0.00	0.00	0.00	0.00	5.78	0.00	0.	0.00
353	0.900	23.12	0.30	48.01	593.34	6.89	55.62	0.00	55.62	0.00	51.28	0.00	0.00	0.00	0.00	6.26	0.00	0.	0.00
354	0.800	23.12	0.31	49.19	608.48	6.98	51.47	0.00	51.47	0.00	50.14	0.00	0.00	0.00	0.00	6.75	0.00	0.	0.00
355	0.700	23.12	0.31	49.19	608.48	7.35	51.22	0.00	51.22	0.00	49.98	0.00	0.00	0.00	0.00	7.23	0.00	0.	0.00
356	0.600	23.12	0.31	49.19	608.48	7.55	50.97	0.00	50.97	0.00	49.83	0.00	0.00	0.00	0.00	7.71	0.00	0.	0.00
357	0.500	23.12	0.31	49.19	608.48	7.66	50.73	0.00	50.73	0.00	49.68	0.00	0.00	0.00	0.00	8.19	0.00	0.	0.00
358	0.400	23.12	0.31	49.86	617.06	7.48	54.56	0.00	54.56	0.00	50.68	0.00	0.00	0.00	0.00	8.67	0.00	0.	0.00
359	0.300	23.12	0.31	49.86	617.06	7.63	54.32	0.00	54.32	0.00	50.54	0.00	0.00	0.00	0.00	9.15	0.00	0.	0.00
360	0.200	23.12	0.33	52.64	652.56	6.44	59.22	0.00	59.22	0.00	55.27	0.00	0.00	0.00	0.00	9.64	0.00	0.	0.00
361	0.100	23.12	0.33	52.64	652.56	6.93	59.05	0.00	59.05	0.00	55.17	0.00	0.00	0.00	0.00	10.12	0.00	0.	0.00
362	0.000	23.12	0.33	52.64	652.56	7.25	58.88	0.00	58.88	0.00	55.06	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00

STREAM SUMMARY
Ditch #6 Hwy 190 BL

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME = 1.79 DAYS

MAXIMUM EFFLUENT = 89.95 PERCENT

FLOW	=	0.00028	TO	0.00279	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.05572	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.61	TO	0.61	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.81	TO	26.56	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.04	TO	0.04	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	23.12	TO	23.12	deg C
DISSOLVED OXYGEN	=	6.24	TO	7.66	mg/L

FINAL REPORT Ditch#7 Hwy434/190BL
REACH NO. 18 Hwy 434/190 Ditch BL

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
373	HDWTR	0.00028	20.85	0.01	5.60	51.60	4.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00

374	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
390	WSTLD	0.00003	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
391	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
373	2.20	2.10	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
374	2.10	2.00	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
375	2.00	1.90	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
376	1.90	1.80	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
377	1.80	1.70	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
378	1.70	1.60	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
379	1.60	1.50	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
380	1.50	1.40	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
381	1.40	1.30	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
382	1.30	1.20	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
383	1.20	1.10	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
384	1.10	1.00	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
385	1.00	0.90	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
386	0.90	0.80	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
387	0.80	0.70	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
388	0.70	0.60	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
389	0.60	0.50	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
390	0.50	0.40	0.00031	10.8	0.00628	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
391	0.40	0.30	0.00032	13.4	0.00647	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
392	0.30	0.20	0.00032	13.4	0.00647	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
393	0.20	0.10	0.00032	13.4	0.00647	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
394	0.10	0.00	0.00032	13.4	0.00647	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
TOT						4.40			110.00	2200.00					
AVG					0.0058		0.05	1.00			0.05				
CUM						4.40									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
373	2.100	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
374	2.000	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
375	1.900	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
376	1.800	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
377	1.700	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
378	1.600	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
379	1.500	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
380	1.400	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
381	1.300	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
382	1.200	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
383	1.100	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
384	1.000	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
385	0.900	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
386	0.800	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
387	0.700	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
388	0.600	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
389	0.500	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
390	0.400	8.56	16.01	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
391	0.300	8.56	16.07	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
392	0.200	8.56	16.07	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
393	0.100	8.56	16.07	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
394	0.000	8.56	16.07	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			14.94	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
373	2.100	23.12	0.01	5.60	51.60	6.89	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.48	0.00	0.	0.00
374	2.000	23.12	0.01	5.77	53.74	7.56	2.51	0.00	2.51	0.00	1.20	0.00	0.00	0.00	0.00	0.96	0.00	0.	0.00
375	1.900	23.12	0.01	5.77	53.74	7.73	2.50	0.00	2.50	0.00	1.20	0.00	0.00	0.00	0.00	1.45	0.00	0.	0.00
376	1.800	23.12	0.01	5.77	53.74	7.77	2.49	0.00	2.49	0.00	1.19	0.00	0.00	0.00	0.00	1.93	0.00	0.	0.00
377	1.700	23.12	0.01	5.77	53.74	7.78	2.49	0.00	2.49	0.00	1.19	0.00	0.00	0.00	0.00	2.41	0.00	0.	0.00
378	1.600	23.12	0.01	5.77	53.74	7.78	2.48	0.00	2.48	0.00	1.19	0.00	0.00	0.00	0.00	2.89	0.00	0.	0.00

379	1.500	23.12	0.01	5.77	53.74	7.78	2.47	0.00	2.47	0.00	1.18	0.00	0.00	0.00	0.00	3.37	0.00	0.	0.00
380	1.400	23.12	0.01	5.77	53.74	7.78	2.46	0.00	2.46	0.00	1.18	0.00	0.00	0.00	0.00	3.85	0.00	0.	0.00
381	1.300	23.12	0.01	5.77	53.74	7.79	2.45	0.00	2.45	0.00	1.18	0.00	0.00	0.00	0.00	4.34	0.00	0.	0.00
382	1.200	23.12	0.01	5.77	53.74	7.79	2.44	0.00	2.44	0.00	1.17	0.00	0.00	0.00	0.00	4.82	0.00	0.	0.00
383	1.100	23.12	0.01	5.77	53.74	7.79	2.43	0.00	2.43	0.00	1.17	0.00	0.00	0.00	0.00	5.30	0.00	0.	0.00
384	1.000	23.12	0.01	5.77	53.74	7.79	2.43	0.00	2.43	0.00	1.17	0.00	0.00	0.00	0.00	5.78	0.00	0.	0.00
385	0.900	23.12	0.01	5.77	53.74	7.79	2.42	0.00	2.42	0.00	1.16	0.00	0.00	0.00	0.00	6.26	0.00	0.	0.00
386	0.800	23.12	0.01	5.77	53.74	7.80	2.41	0.00	2.41	0.00	1.16	0.00	0.00	0.00	0.00	6.75	0.00	0.	0.00
387	0.700	23.12	0.01	5.77	53.74	7.80	2.41	0.00	2.41	0.00	1.16	0.00	0.00	0.00	0.00	7.23	0.00	0.	0.00
388	0.600	23.12	0.01	5.77	53.74	7.80	2.40	0.00	2.40	0.00	1.15	0.00	0.00	0.00	0.00	7.71	0.00	0.	0.00
389	0.500	23.12	0.01	5.77	53.74	7.80	2.39	0.00	2.39	0.00	1.15	0.00	0.00	0.00	0.00	8.19	0.00	0.	0.00
390	0.400	23.12	0.05	11.23	123.56	7.60	12.71	0.00	12.71	0.00	7.68	0.00	0.00	0.00	0.00	8.67	0.00	0.	0.00
391	0.300	23.12	0.06	12.62	141.26	7.65	14.07	0.00	14.07	0.00	9.23	0.00	0.00	0.00	0.00	9.15	0.00	0.	0.00
392	0.200	23.12	0.06	12.62	141.26	7.71	13.77	0.00	13.77	0.00	9.10	0.00	0.00	0.00	0.00	9.64	0.00	0.	0.00
393	0.100	23.12	0.06	12.62	141.26	7.73	13.47	0.00	13.47	0.00	8.97	0.00	0.00	0.00	0.00	10.12	0.00	0.	0.00
394	0.000	23.12	0.06	12.62	141.26	7.74	13.18	0.00	13.18	0.00	8.85	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00

STREAM SUMMARY
Ditch#7 Hwy434/190BL

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME = 4.40 DAYS

MAXIMUM EFFLUENT = 13.42 PERCENT

FLOW	=	0.00028	TO	0.00032	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.00647	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.61	TO	0.61	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.81	TO	16.07	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.04	TO	0.04	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	23.12	TO	23.12	deg C
DISSOLVED OXYGEN	=	6.89	TO	7.80	mg/L

FINAL REPORT Big Branch Bayou
REACH NO. 21 BB03 to Hwy 434/I-12 ditch BBB

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
426	HDWTR	0.00900	21.66	0.00	10.40	95.61	2.72	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	2.60	0.00	0.00
EACH	INCR	0.01475	21.66	0.00	10.40	95.61	2.72	2.68	0.00			0.05	0.00	0.00	0.00	0.00	0.00	

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
426	5.20	5.19	0.02375	0.0	0.01664	0.01	0.39	3.66	14.27	36.60	1.43	1.39	0.000	0.500	0.017
427	5.19	5.18	0.03850	0.0	0.02697	0.00	0.39	3.66	14.27	36.60	1.43	2.78	0.000	0.500	0.027
428	5.18	5.17	0.05325	0.0	0.03731	0.00	0.39	3.66	14.27	36.60	1.43	4.17	0.000	0.500	0.037
429	5.17	5.16	0.06800	0.0	0.04764	0.00	0.39	3.66	14.27	36.60	1.43	5.56	0.000	0.500	0.048
430	5.16	5.15	0.08275	0.0	0.05797	0.00	0.39	3.66	14.27	36.60	1.43	6.95	0.000	0.500	0.058
431	5.15	5.14	0.09750	0.0	0.06831	0.00	0.39	3.66	14.27	36.60	1.43	8.34	0.000	0.500	0.068
432	5.14	5.13	0.11225	0.0	0.07864	0.00	0.39	3.66	14.27	36.60	1.43	9.74	0.000	0.500	0.079
433	5.13	5.12	0.12700	0.0	0.08898	0.00	0.39	3.66	14.27	36.60	1.43	11.13	0.000	0.500	0.089
434	5.12	5.11	0.14175	0.0	0.09931	0.00	0.39	3.66	14.27	36.60	1.43	12.52	0.000	0.500	0.099
435	5.11	5.10	0.15651	0.0	0.10964	0.00	0.39	3.66	14.27	36.60	1.43	13.91	0.000	0.500	0.110
TOT						0.03			142.74	366.00					
AVG					0.0455		0.39	3.66			1.43				
CUM						0.03									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da

426	5.190	8.80	1.85	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
427	5.180	8.80	1.85	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
428	5.170	8.80	1.88	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
429	5.160	8.80	2.01	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
430	5.150	8.80	2.12	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
431	5.140	8.80	2.22	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
432	5.130	8.80	2.30	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
433	5.120	8.80	2.38	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
434	5.110	8.80	2.45	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
435	5.100	8.80	2.52	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.09	0.07	0.05	0.00	0.00	0.00	0.00	2.00			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
426	5.190	21.66	0.00	10.40	95.62	2.77	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
427	5.180	21.66	0.00	10.40	95.62	2.77	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
428	5.170	21.66	0.00	10.40	95.62	2.78	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
429	5.160	21.66	0.00	10.40	95.63	2.78	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
430	5.150	21.66	0.00	10.40	95.65	2.78	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
431	5.140	21.66	0.00	10.41	95.69	2.79	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
432	5.130	21.66	0.00	10.42	95.81	2.79	2.69	0.00	2.69	0.00	0.06	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
433	5.120	21.66	0.00	10.44	96.12	2.80	2.70	0.00	2.70	0.00	0.08	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
434	5.110	21.66	0.00	10.51	97.03	2.81	2.72	0.00	2.72	0.00	0.14	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
435	5.100	21.66	0.00	10.72	99.84	2.84	2.81	0.00	2.81	0.00	0.32	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 23 Hwy434/I-12DitchBBBtoFolgerDitch CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
501	UPR RCH	0.15651	21.66	0.00	10.72	99.84	2.84	2.81	0.00	2.81	0.00	0.32	0.00	0.00	0.00	2.60	0.00	0.00
501	TRIB	0.00294	21.66	0.33	53.38	660.25	8.25	19.57	0.00	19.57	0.00	36.74	0.00	0.00	0.00	2.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
501	5.10	5.09	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	16.69	0.000	1.000	0.112
502	5.09	5.08	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	19.47	0.000	1.000	0.112
503	5.08	5.07	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	22.25	0.000	1.000	0.112
504	5.07	5.06	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	25.03	0.000	1.000	0.112
505	5.06	5.05	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	27.82	0.000	1.000	0.112
506	5.05	5.04	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	30.60	0.000	1.000	0.112
507	5.04	5.03	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	33.38	0.001	1.000	0.112
508	5.03	5.02	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	36.16	0.001	1.000	0.112
509	5.02	5.01	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	38.94	0.001	1.000	0.112
510	5.01	5.00	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	41.72	0.001	1.000	0.112
511	5.00	4.99	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	44.51	0.001	1.000	0.112
512	4.99	4.98	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	47.29	0.001	1.000	0.112
513	4.98	4.97	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	50.07	0.001	1.000	0.112
514	4.97	4.96	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	52.85	0.001	1.000	0.112
515	4.96	4.95	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	55.63	0.001	1.000	0.112
516	4.95	4.94	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	58.41	0.001	1.000	0.112
517	4.94	4.93	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	61.20	0.001	1.000	0.112
518	4.93	4.92	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	63.98	0.001	1.000	0.112
519	4.92	4.91	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	66.76	0.001	1.000	0.112
520	4.91	4.90	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	69.54	0.001	1.000	0.112
TOT						0.02			285.48	732.00					
AVG					0.1117		0.39	3.66			1.43				
CUM						0.05									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da

501	5.090	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
502	5.080	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
503	5.070	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
504	5.060	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
505	5.050	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
506	5.040	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
507	5.030	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
508	5.020	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
509	5.010	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
510	5.000	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
511	4.990	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
512	4.980	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
513	4.970	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
514	4.960	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
515	4.950	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
516	4.940	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
517	4.930	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
518	4.920	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
519	4.910	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
520	4.900	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.45	0.07	0.05	0.00	0.00	0.00	0.00	2.00			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
501	5.090	21.66	0.01	11.19	106.02	2.91	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
502	5.080	21.66	0.01	11.19	106.02	2.92	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
503	5.070	21.66	0.01	11.19	106.02	2.93	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
504	5.060	21.66	0.01	11.19	106.02	2.94	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
505	5.050	21.66	0.01	11.19	106.02	2.95	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
506	5.040	21.66	0.01	11.19	106.02	2.96	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
507	5.030	21.66	0.01	11.19	106.02	2.97	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
508	5.020	21.66	0.01	11.19	106.02	2.98	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
509	5.010	21.66	0.01	11.19	106.02	2.98	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
510	5.000	21.66	0.01	11.19	106.02	2.99	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
511	4.990	21.66	0.01	11.19	106.02	3.00	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
512	4.980	21.66	0.01	11.19	106.02	3.01	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
513	4.970	21.66	0.01	11.19	106.02	3.02	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
514	4.960	21.66	0.01	11.19	106.02	3.03	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
515	4.950	21.66	0.01	11.19	106.02	3.04	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
516	4.940	21.66	0.01	11.19	106.03	3.05	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
517	4.930	21.66	0.01	11.19	106.04	3.05	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
518	4.920	21.66	0.01	11.19	106.05	3.06	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
519	4.910	21.66	0.01	11.20	106.09	3.07	3.00	0.00	3.00	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
520	4.900	21.66	0.01	11.20	106.17	3.07	3.02	0.00	3.02	0.00	0.73	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 25 Folger Ditch to BB02 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
525	UPR RCH	0.15944	21.66	0.01	11.20	106.17	3.07	3.02	0.00	3.02	0.00	0.73	0.00	0.00	0.00	2.60	0.00	0.00
525	TRIB	0.00046	21.66	0.14	28.69	335.90	7.84	26.58	0.00	26.58	0.00	24.68	0.00	0.00	0.00	2.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
525	4.90	4.80	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	111.26	0.002	2.000	0.112
526	4.80	4.70	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	152.99	0.002	2.000	0.112
527	4.70	4.60	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	194.71	0.003	2.000	0.112
528	4.60	4.50	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	236.44	0.004	2.000	0.112
529	4.50	4.40	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	278.16	0.004	2.000	0.112
530	4.40	4.30	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	319.88	0.005	2.000	0.112
531	4.30	4.20	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	361.61	0.006	2.000	0.112
532	4.20	4.10	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	403.33	0.006	2.000	0.112
533	4.10	4.00	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	445.06	0.007	2.000	0.112
534	4.00	3.90	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	486.78	0.008	2.000	0.112
535	3.90	3.80	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	528.50	0.008	2.000	0.112

536	3.80	3.70	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	570.23	0.009	2.000	0.112
537	3.70	3.60	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	611.95	0.010	2.000	0.112
538	3.60	3.50	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	653.68	0.010	2.000	0.112
539	3.50	3.40	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	695.40	0.011	2.000	0.112
540	3.40	3.30	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	737.12	0.011	2.000	0.112
541	3.30	3.20	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	778.85	0.012	2.000	0.112
542	3.20	3.10	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	820.57	0.013	2.000	0.112
543	3.10	3.00	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	862.30	0.013	2.000	0.112
544	3.00	2.90	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	904.02	0.014	2.000	0.112
545	2.90	2.80	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	945.74	0.015	2.000	0.112
546	2.80	2.70	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	987.47	0.015	2.000	0.112
547	2.70	2.60	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1029.19	0.016	2.000	0.112
548	2.60	2.50	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1070.92	0.017	2.000	0.112
549	2.50	2.40	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1112.64	0.017	2.000	0.112
550	2.40	2.30	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1154.36	0.018	2.000	0.112
551	2.30	2.20	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1196.09	0.019	2.000	0.112
552	2.20	2.10	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1237.81	0.019	2.000	0.112
553	2.10	2.00	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1279.54	0.020	2.000	0.112
TOT						0.30			4139.46	10614.00					
AVG					0.1120		0.39	3.66			1.43				
CUM						0.35									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
525	4.800	8.79	2.54	0.08	0.05	0.00	0.00	0.00	0.00	6.68	6.68	6.68	0.53	0.05	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
526	4.700	8.78	2.54	0.08	0.05	0.00	0.00	0.00	0.00	6.70	6.70	6.70	0.53	0.05	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
527	4.600	8.78	2.54	0.08	0.05	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.53	0.05	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
528	4.500	8.77	2.55	0.08	0.05	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.53	0.05	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
529	4.400	8.76	2.55	0.08	0.05	0.00	0.00	0.00	0.00	6.77	6.77	6.77	0.53	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
530	4.300	8.75	2.55	0.08	0.05	0.00	0.00	0.00	0.00	6.79	6.79	6.79	0.53	0.05	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
531	4.200	8.74	2.55	0.08	0.05	0.00	0.00	0.00	0.00	6.81	6.81	6.81	0.53	0.05	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
532	4.100	8.73	2.56	0.08	0.05	0.00	0.00	0.00	0.00	6.83	6.83	6.83	0.53	0.05	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
533	4.000	8.73	2.56	0.08	0.05	0.00	0.00	0.00	0.00	6.85	6.85	6.85	0.53	0.05	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
534	3.900	8.72	2.56	0.08	0.05	0.00	0.00	0.00	0.00	6.87	6.87	6.87	0.53	0.05	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
535	3.800	8.71	2.56	0.08	0.05	0.00	0.00	0.00	0.00	6.89	6.89	6.89	0.53	0.05	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
536	3.700	8.70	2.57	0.08	0.05	0.00	0.00	0.00	0.00	6.92	6.92	6.92	0.53	0.05	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
537	3.600	8.69	2.57	0.08	0.05	0.00	0.00	0.00	0.00	6.94	6.94	6.94	0.53	0.05	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
538	3.500	8.68	2.57	0.08	0.05	0.00	0.00	0.00	0.00	6.96	6.96	6.96	0.53	0.05	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
539	3.400	8.68	2.57	0.08	0.05	0.00	0.00	0.00	0.00	6.98	6.98	6.98	0.53	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
540	3.300	8.67	2.58	0.08	0.05	0.00	0.00	0.00	0.00	7.00	7.00	7.00	0.53	0.05	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
541	3.200	8.66	2.58	0.08	0.05	0.00	0.00	0.00	0.00	7.02	7.02	7.02	0.53	0.05	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
542	3.100	8.65	2.58	0.08	0.05	0.00	0.00	0.00	0.00	7.05	7.05	7.05	0.53	0.05	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
543	3.000	8.64	2.58	0.08	0.05	0.00	0.00	0.00	0.00	7.07	7.07	7.07	0.53	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
544	2.900	8.63	2.58	0.08	0.05	0.00	0.00	0.00	0.00	7.09	7.09	7.09	0.53	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
545	2.800	8.63	2.59	0.08	0.05	0.00	0.00	0.00	0.00	7.11	7.11	7.11	0.53	0.05	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
546	2.700	8.62	2.59	0.08	0.05	0.00	0.00	0.00	0.00	7.14	7.14	7.14	0.53	0.05	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
547	2.600	8.61	2.59	0.08	0.05	0.00	0.00	0.00	0.00	7.16	7.16	7.16	0.53	0.05	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
548	2.500	8.60	2.59	0.08	0.05	0.00	0.00	0.00	0.00	7.18	7.18	7.18	0.52	0.05	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
549	2.400	8.59	2.60	0.08	0.05	0.00	0.00	0.00	0.00	7.20	7.20	7.20	0.52	0.05	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
550	2.300	8.59	2.60	0.08	0.05	0.00	0.00	0.00	0.00	7.23	7.23	7.23	0.52	0.05	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
551	2.200	8.58	2.60	0.08	0.05	0.00	0.00	0.00	0.00	7.25	7.25	7.25	0.52	0.05	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
552	2.100	8.57	2.60	0.08	0.05	0.00	0.00	0.00	0.00	7.27	7.27	7.27	0.52	0.05	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
553	2.000	8.56	2.61	0.08	0.05	0.00	0.00	0.00	0.00	7.29	7.29	7.29	0.49	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.45	0.07	0.05	0.00	0.00	0.00	0.00	6.00			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
525	4.800	21.71	0.01	11.24	106.67	3.05	3.12	0.00	3.12	0.00	0.78	0.00	0.00	0.00	0.00	3.01	0.00	0.	0.00
526	4.700	21.76	0.01	11.24	106.67	3.02	3.18	0.00	3.18	0.00	0.77	0.00	0.00	0.00	0.00	3.41	0.00	0.	0.00
527	4.600	21.81	0.01	11.24	106.67	2.99	3.24	0.00	3.24	0.00	0.77	0.00	0.00	0.00	0.00	3.82	0.00	0.	0.00
528	4.500	21.86	0.01	11.24	106.67	2.96	3.29	0.00	3.29	0.00	0.76	0.00	0.00	0.00	0.00	4.23	0.00	0.	0.00
529	4.400	21.91	0.01	11.24	106.67	2.93	3.35	0.00	3.35	0.00	0.76	0.00	0.00	0.00	0.00	4.63	0.00	0.	0.00
530	4.300	21.96	0.01	11.24	106.67	2.90	3.41	0.00	3.41	0.00	0.75	0.00	0.00	0.00	0.00	5.04	0.00	0.	0.00
531	4.200	22.01	0.01	11.24	106.67	2.87	3.47	0.00	3.47	0.00	0.75	0.00	0.00	0.00	0.00	5.45	0.00	0.	0.00
532	4.100	22.06	0.01	11.24	106.67	2.84	3.53	0.00	3.53	0.00	0.74	0.00	0.00	0.00	0.00	5.86	0.00	0.	0.00
533	4.000	22.11	0.01	11.24	106.67	2.81	3.58	0.00	3.58	0.00	0.74	0.00	0.00	0.00	0.00	6.26	0.00	0.	0.00
534	3.900	22.16	0.01	11.24	106.67	2.78	3.64	0.00	3.64	0.00	0.74	0.00	0.00	0.00	0.00	6.67	0.00	0.	0.00
535	3.800	22.21	0.01	11.24	106.67	2.76	3.70	0.00	3.70	0.00	0.73	0.00	0.00	0.00	0.00	7.08	0.00	0.	0.00
536	3.700	22.26	0.01	11.24	106.67	2.73	3.76	0.00	3.76	0.00	0.73	0.00	0.00	0.00	0.00	7.48	0.00	0.	0.00
537	3.600	22.31	0.01	11.24	106.67	2.70	3.81	0.00	3.81	0.00	0.72	0.00	0.00	0.00	0.00	7.89	0.00	0.	0.00
538	3.500	22.36	0.01	11.24	106.67	2.67	3.87	0.00	3.87	0.00	0.72	0.00	0.00	0.00	0.00	8.30	0.00	0.	0.00

539	3.400	22.40	0.01	11.24	106.67	2.65	3.93	0.00	3.93	0.00	0.71	0.00	0.00	0.00	0.00	8.70	0.00	0.	0.00
540	3.300	22.45	0.01	11.24	106.67	2.62	3.98	0.00	3.98	0.00	0.71	0.00	0.00	0.00	0.00	9.11	0.00	0.	0.00
541	3.200	22.50	0.01	11.24	106.67	2.59	4.04	0.00	4.04	0.00	0.71	0.00	0.00	0.00	0.00	9.52	0.00	0.	0.00
542	3.100	22.55	0.01	11.24	106.67	2.57	4.10	0.00	4.10	0.00	0.70	0.00	0.00	0.00	0.00	9.92	0.00	0.	0.00
543	3.000	22.60	0.01	11.24	106.67	2.54	4.15	0.00	4.15	0.00	0.70	0.00	0.00	0.00	0.00	10.33	0.00	0.	0.00
544	2.900	22.65	0.01	11.24	106.67	2.52	4.21	0.00	4.21	0.00	0.69	0.00	0.00	0.00	0.00	10.74	0.00	0.	0.00
545	2.800	22.70	0.01	11.24	106.67	2.49	4.27	0.00	4.27	0.00	0.69	0.00	0.00	0.00	0.00	11.14	0.00	0.	0.00
546	2.700	22.75	0.01	11.24	106.67	2.47	4.32	0.00	4.32	0.00	0.68	0.00	0.00	0.00	0.00	11.55	0.00	0.	0.00
547	2.600	22.80	0.01	11.24	106.67	2.44	4.38	0.00	4.38	0.00	0.68	0.00	0.00	0.00	0.00	11.96	0.00	0.	0.00
548	2.500	22.85	0.01	11.24	106.67	2.42	4.44	0.00	4.44	0.00	0.68	0.00	0.00	0.00	0.00	12.37	0.00	0.	0.00
549	2.400	22.90	0.01	11.24	106.68	2.39	4.49	0.00	4.49	0.00	0.67	0.00	0.00	0.00	0.00	12.77	0.00	0.	0.00
550	2.300	22.95	0.01	11.24	106.68	2.37	4.55	0.00	4.55	0.00	0.67	0.00	0.00	0.00	0.00	13.18	0.00	0.	0.00
551	2.200	23.00	0.01	11.25	106.74	2.34	4.61	0.00	4.61	0.00	0.67	0.00	0.00	0.00	0.00	13.59	0.00	0.	0.00
552	2.100	23.05	0.01	11.31	107.13	2.28	4.72	0.00	4.72	0.00	0.71	0.00	0.00	0.00	0.00	13.99	0.00	0.	0.00
553	2.000	23.10	0.01	11.67	109.69	2.00	5.12	0.00	5.12	0.00	0.98	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 26 BB02 to Berry Todd Rd Ditch CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
554	UPR RCH	0.15990	23.10	0.01	11.67	109.69	2.00	5.12	0.00	5.12	0.00	0.98	0.00	0.00	0.00	14.40	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
554	2.00	1.99	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1302.70	0.002	2.500	0.009
555	1.99	1.98	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1325.87	0.002	2.500	0.009
556	1.98	1.97	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1349.03	0.002	2.500	0.009
557	1.97	1.96	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1372.20	0.002	2.500	0.009
558	1.96	1.95	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1395.36	0.002	2.500	0.009
559	1.95	1.94	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1418.52	0.002	2.500	0.009
560	1.94	1.93	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1441.69	0.002	2.500	0.009
561	1.93	1.92	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1464.85	0.002	2.500	0.009
562	1.92	1.91	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1488.02	0.002	2.500	0.009
563	1.91	1.90	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1511.18	0.002	2.500	0.009
TOT						0.12			1706.88	1524.00					
AVG					0.0094		1.12	15.24			17.07				
CUM						0.47									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
554	1.990	8.56	0.66	0.05	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.04	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
555	1.980	8.56	0.66	0.05	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.03	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
556	1.970	8.56	0.66	0.05	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.03	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
557	1.960	8.56	0.66	0.05	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.03	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
558	1.950	8.56	0.66	0.04	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.03	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
559	1.940	8.56	0.66	0.04	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.03	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
560	1.930	8.56	0.66	0.04	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.02	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
561	1.920	8.56	0.66	0.04	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.02	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
562	1.910	8.56	0.66	0.04	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.02	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
563	1.900	8.56	0.66	0.04	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.02	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.62	0.05	0.05	0.00	0.00	0.00	0.00	7.00			0.11	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
554	1.990	23.10	0.01	12.26	113.78	1.57	5.68	0.00	5.68	0.00	1.42	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
555	1.980	23.10	0.01	12.30	114.05	1.54	5.71	0.00	5.71	0.00	1.45	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
556	1.970	23.10	0.01	12.34	114.32	1.51	5.75	0.00	5.75	0.00	1.48	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
557	1.960	23.10	0.01	12.38	114.61	1.49	5.79	0.00	5.79	0.00	1.51	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
558	1.950	23.10	0.01	12.42	114.91	1.46	5.83	0.00	5.83	0.00	1.54	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
559	1.940	23.10	0.01	12.46	115.22	1.43	5.88	0.00	5.88	0.00	1.57	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00

560	1.930	23.10	0.01	12.51	115.54	1.41	5.92	0.00	5.92	0.00	1.61	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
561	1.920	23.10	0.01	12.56	115.87	1.38	5.97	0.00	5.97	0.00	1.64	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
562	1.910	23.10	0.01	12.60	116.21	1.35	6.02	0.00	6.02	0.00	1.68	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
563	1.900	23.10	0.01	12.66	116.57	1.33	6.07	0.00	6.07	0.00	1.72	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 28 BerryToddRdDitchtoHwy190DitchBBB CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
584	UPR RCH	0.15990	23.10	0.01	12.66	116.57	1.33	6.07	0.00	6.07	0.00	1.72	0.00	0.00	0.00	14.40	0.00	0.00
584	TRIB	0.00273	23.10	0.33	53.03	655.77	7.84	49.02	0.00	49.02	0.00	74.58	0.00	0.00	0.00	14.40	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
584	1.90	1.80	0.16263	3.3	0.00953	0.12	1.12	15.24	1706.88	1524.00	17.07	1742.83	0.002	3.500	0.010
585	1.80	1.70	0.16263	3.3	0.00953	0.12	1.12	15.24	1706.88	1524.00	17.07	1974.48	0.003	3.500	0.010
586	1.70	1.60	0.16263	3.3	0.00953	0.12	1.12	15.24	1706.88	1524.00	17.07	2206.13	0.003	3.500	0.010
587	1.60	1.50	0.16263	3.3	0.00953	0.12	1.12	15.24	1706.88	1524.00	17.07	2437.78	0.003	3.500	0.010
588	1.50	1.40	0.16263	3.3	0.00953	0.12	1.12	15.24	1706.88	1524.00	17.07	2669.42	0.003	3.500	0.010
589	1.40	1.30	0.16263	3.3	0.00953	0.12	1.12	15.24	1706.88	1524.00	17.07	2901.07	0.004	3.500	0.010
590	1.30	1.20	0.16263	3.3	0.00953	0.12	1.12	15.24	1706.88	1524.00	17.07	3132.72	0.004	3.500	0.010
591	1.20	1.10	0.16263	3.3	0.00953	0.12	1.12	15.24	1706.88	1524.00	17.07	3364.37	0.004	3.500	0.010
592	1.10	1.00	0.16263	3.3	0.00953	0.12	1.12	15.24	1706.88	1524.00	17.07	3596.02	0.005	3.500	0.010
593	1.00	0.90	0.16263	3.3	0.00953	0.12	1.12	15.24	1706.88	1524.00	17.07	3827.66	0.005	3.500	0.010
594	0.90	0.80	0.16263	3.3	0.00953	0.12	1.12	15.24	1706.88	1524.00	17.07	4059.31	0.005	3.500	0.010
TOT						1.34			18775.68	16764.00					
AVG					0.0095		1.12	15.24			17.07				
CUM						1.81									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
584	1.800	8.56	0.66	0.04	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.01	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
585	1.700	8.56	0.66	0.03	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.01	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
586	1.600	8.56	0.66	0.03	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
587	1.500	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
588	1.400	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
589	1.300	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
590	1.200	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
591	1.100	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
592	1.000	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
593	0.900	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
594	0.800	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.62	0.05	0.05	0.00	0.00	0.00	0.00	7.00			0.11	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
584	1.800	23.10	0.01	12.87	118.07	1.22	6.29	0.00	6.29	0.00	1.88	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
585	1.700	23.10	0.01	13.12	118.65	1.05	6.49	0.00	6.49	0.00	1.89	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
586	1.600	23.10	0.02	13.44	119.40	0.90	6.71	0.00	6.71	0.00	1.89	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
587	1.500	23.10	0.02	13.85	120.35	0.76	6.94	0.00	6.94	0.00	1.91	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
588	1.400	23.10	0.02	14.37	121.57	0.65	7.19	0.00	7.19	0.00	1.93	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
589	1.300	23.10	0.02	15.03	123.11	0.57	7.47	0.00	7.47	0.00	1.96	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
590	1.200	23.10	0.02	15.87	125.07	0.51	7.77	0.00	7.77	0.00	2.01	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
591	1.100	23.10	0.02	16.94	127.56	0.49	8.12	0.00	8.12	0.00	2.07	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
592	1.000	23.10	0.03	18.29	130.74	0.51	8.51	0.00	8.51	0.00	2.15	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
593	0.900	23.10	0.03	20.02	134.78	0.59	8.98	0.00	8.98	0.00	2.26	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
594	0.800	23.10	0.03	22.22	139.92	0.75	9.52	0.00	9.52	0.00	2.40	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00

REACH NO. 30 Hwy 190 Ditch BBB to BB01 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
608	UPR RCH	0.16263	23.10	0.03	22.22	139.92	0.75	9.52	0.00	9.52	0.00	2.40	0.00	0.00	0.00	14.40	0.00	0.00
608	TRIB	0.00029	23.10	0.01	11.43	109.13	7.82	3.76	0.00	3.76	0.00	2.13	0.00	0.00	0.00	14.40	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
608	0.80	0.70	0.16292	3.2	0.00954	0.12	1.12	15.24	1706.88	1524.00	17.07	4290.96	0.006	5.500	0.010
609	0.70	0.60	0.16292	3.2	0.00954	0.12	1.12	15.24	1706.88	1524.00	17.07	4522.61	0.006	5.500	0.010
610	0.60	0.50	0.16292	3.2	0.00954	0.12	1.12	15.24	1706.88	1524.00	17.07	4754.26	0.006	5.500	0.010
611	0.50	0.40	0.16292	3.2	0.00954	0.12	1.12	15.24	1706.88	1524.00	17.07	4985.90	0.006	5.500	0.010
612	0.40	0.30	0.16292	3.2	0.00954	0.12	1.12	15.24	1706.88	1524.00	17.07	5217.55	0.007	5.500	0.010
TOT						0.61			8534.40	7620.00					
AVG					0.0095		1.12	15.24			17.07				
CUM						2.41									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
608	0.700	8.47	0.67	0.03	0.05	0.00	0.00	0.00	0.00	8.81	8.81	8.81	0.01	0.05	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
609	0.600	8.39	0.68	0.04	0.06	0.00	0.00	0.00	0.00	9.11	9.11	9.11	0.01	0.06	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
610	0.500	8.30	0.68	0.05	0.06	0.00	0.00	0.00	0.00	9.43	9.43	9.43	0.04	0.06	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
611	0.400	8.22	0.69	0.07	0.06	0.00	0.00	0.00	0.00	9.76	9.76	9.76	0.10	0.06	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
612	0.300	8.14	0.70	0.07	0.06	0.00	0.00	0.00	0.00	10.11	10.11	10.11	0.12	0.06	0.00	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.62	0.05	0.05	0.00	0.00	0.00	0.00	7.00			0.11	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
608	0.700	23.65	0.04	24.40	145.00	0.96	10.04	0.00	10.04	0.00	2.54	0.00	0.00	0.00	0.00	16.76	0.00	0.	0.00
609	0.600	24.19	0.04	26.56	150.05	1.20	10.48	0.00	10.48	0.00	2.68	0.00	0.00	0.00	0.00	19.12	0.00	0.	0.00
610	0.500	24.74	0.05	29.09	155.98	1.54	10.93	0.00	10.93	0.00	2.86	0.00	0.00	0.00	0.00	21.48	0.00	0.	0.00
611	0.400	25.28	0.06	32.07	162.94	2.01	11.41	0.00	11.41	0.00	3.07	0.00	0.00	0.00	0.00	23.84	0.00	0.	0.00
612	0.300	25.83	0.06	35.56	171.10	2.64	11.90	0.00	11.90	0.00	3.32	0.00	0.00	0.00	0.00	26.20	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 31 BB01toConfluenceWithBayouLacombe CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
613	UPR RCH	0.16292	25.83	0.06	35.56	171.10	2.64	11.90	0.00	11.90	0.00	3.32	0.00	0.00	0.00	26.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
613	0.30	0.20	0.16292	3.2	0.00193	0.60	2.13	39.62	8439.06	3962.00	84.39	5819.78	0.002	7.500	0.002
614	0.20	0.10	0.16292	3.2	0.00193	0.60	2.13	39.62	8439.06	3962.00	84.39	6422.00	0.002	7.500	0.002
615	0.10	0.00	0.16292	3.2	0.00193	0.60	2.13	39.62	8439.06	3962.00	84.39	7024.22	0.002	7.500	0.002
TOT						1.80			25317.18	11886.00					
AVG					0.0019		2.13	39.62			84.39				
CUM						4.21									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
613	0.200	8.13	0.37	0.06	0.06	0.00	0.00	0.00	0.00	10.11	10.11	10.11	0.05	0.06	0.00	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
614	0.100	8.13	0.37	0.06	0.06	0.00	0.00	0.00	0.00	10.11	10.11	10.11	0.05	0.06	0.00	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
615	0.000	8.13	0.37	0.06	0.06	0.00	0.00	0.00	0.00	10.12	10.12	10.12	0.05	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.33	0.05	0.05	0.00	0.00	0.00	0.00	7.00			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
613	0.200	25.84	0.07	36.62	173.58	2.86	12.04	0.00	12.04	0.00	3.40	0.00	0.00	0.00	0.00	24.20	0.00	0.	0.00
614	0.100	25.84	0.07	37.26	175.06	3.02	11.90	0.00	11.90	0.00	3.33	0.00	0.00	0.00	0.00	22.20	0.00	0.	0.00
615	0.000	25.85	0.07	37.91	176.58	3.23	11.55	0.00	11.55	0.00	3.15	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00

STREAM SUMMARY
Big Branch Bayou

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME	=	4.21	DAYS		
MAXIMUM EFFLUENT	=	3.25	PERCENT		
FLOW	=	0.02375	TO	0.16292	m³/s
DISPERSION	=	0.5000	TO	7.5000	m²/s
VELOCITY	=	0.00193	TO	0.11202	m/s
DEPTH	=	0.39	TO	2.13	m
WIDTH	=	3.66	TO	39.62	m
BOD DECAY	=	0.02	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	2.22	TO	10.12	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	0.37	TO	2.61	per day
BOD SETTLING	=	0.05	TO	0.06	per day
NBOD DECAY	=	0.00	TO	0.53	per day
NBOD SETTLING	=	0.05	TO	0.06	per day
TEMPERATURE	=	21.66	TO	25.85	deg C
DISSOLVED OXYGEN	=	0.49	TO	3.23	mg/L

FINAL REPORT Dich#8Hwy434/I-12BBB
REACH NO. 22 Hwy 434/I-12 Ditch BBB

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
436	HDWTR	0.00028	21.66	0.00	10.40	95.61	4.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
442	WSTLD	0.00003	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
464	WSTLD	0.00263	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
436	6.50	6.40	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
437	6.40	6.30	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
438	6.30	6.20	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
439	6.20	6.10	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
440	6.10	6.00	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
441	6.00	5.90	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
442	5.90	5.80	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
443	5.80	5.70	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
444	5.70	5.60	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
445	5.60	5.50	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
446	5.50	5.40	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
447	5.40	5.30	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006

448	5.30	5.20	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
449	5.20	5.10	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
450	5.10	5.00	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
451	5.00	4.90	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
452	4.90	4.80	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
453	4.80	4.70	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
454	4.70	4.60	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
455	4.60	4.50	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
456	4.50	4.40	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
457	4.40	4.30	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
458	4.30	4.20	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
459	4.20	4.10	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
460	4.10	4.00	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
461	4.00	3.90	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
462	3.90	3.80	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
463	3.80	3.70	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
464	3.70	3.60	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
465	3.60	3.50	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
466	3.50	3.40	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
467	3.40	3.30	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
468	3.30	3.20	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
469	3.20	3.10	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
470	3.10	3.00	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
471	3.00	2.90	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
472	2.90	2.80	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
473	2.80	2.70	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
474	2.70	2.60	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
475	2.60	2.50	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
476	2.50	2.40	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
477	2.40	2.30	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
478	2.30	2.20	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
479	2.20	2.10	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
480	2.10	2.00	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
481	2.00	1.90	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
482	1.90	1.80	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
483	1.80	1.70	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
484	1.70	1.60	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
485	1.60	1.50	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
486	1.50	1.40	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
487	1.40	1.30	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
488	1.30	1.20	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
489	1.20	1.10	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
490	1.10	1.00	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
491	1.00	0.90	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
492	0.90	0.80	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
493	0.80	0.70	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
494	0.70	0.60	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
495	0.60	0.50	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
496	0.50	0.40	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
497	0.40	0.30	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
498	0.30	0.20	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
499	0.20	0.10	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
500	0.10	0.00	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
TOT						6.07			325.00	6500.00					
AVG					0.0124		0.05	1.00			0.05				
CUM						6.07									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
436	6.400	8.80	15.37	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
437	6.300	8.80	15.37	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
438	6.200	8.80	15.37	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
439	6.100	8.80	15.37	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
440	6.000	8.80	15.37	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
441	5.900	8.80	15.37	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
442	5.800	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
443	5.700	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
444	5.600	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
445	5.500	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
446	5.400	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
447	5.300	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
448	5.200	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
449	5.100	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
450	5.000	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
451	4.900	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
452	4.800	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
453	4.700	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
454	4.600	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00

455	4.500	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
456	4.400	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
457	4.300	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
458	4.200	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
459	4.100	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
460	4.000	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
461	3.900	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
462	3.800	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
463	3.700	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
464	3.600	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
465	3.500	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
466	3.400	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
467	3.300	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
468	3.200	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
469	3.100	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
470	3.000	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
471	2.900	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
472	2.800	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
473	2.700	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
474	2.600	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
475	2.500	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
476	2.400	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
477	2.300	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
478	2.200	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
479	2.100	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
480	2.000	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
481	1.900	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
482	1.800	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
483	1.700	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
484	1.600	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
485	1.500	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
486	1.400	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
487	1.300	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
488	1.200	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
489	1.100	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
490	1.000	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
491	0.900	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
492	0.800	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
493	0.700	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
494	0.600	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
495	0.500	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
496	0.400	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
497	0.300	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
498	0.200	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
499	0.100	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
500	0.000	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			20.70	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
436	6.400	21.66	0.00	10.40	95.61	7.09	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.04	0.00	0.	0.00
437	6.300	21.66	0.00	10.40	95.61	7.83	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.08	0.00	0.	0.00
438	6.200	21.66	0.00	10.40	95.61	8.01	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.12	0.00	0.	0.00
439	6.100	21.66	0.00	10.40	95.61	8.05	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.16	0.00	0.	0.00
440	6.000	21.66	0.00	10.40	95.61	8.06	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.20	0.00	0.	0.00
441	5.900	21.66	0.00	10.40	95.61	8.06	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.24	0.00	0.	0.00
442	5.800	21.66	0.04	15.09	157.28	7.87	11.96	0.00	11.96	0.00	7.18	0.00	0.00	0.00	0.00	0.28	0.00	0.	0.00
443	5.700	21.66	0.04	15.09	157.28	7.97	11.72	0.00	11.72	0.00	7.08	0.00	0.00	0.00	0.00	0.32	0.00	0.	0.00
444	5.600	21.66	0.04	15.09	157.28	8.00	11.48	0.00	11.48	0.00	6.99	0.00	0.00	0.00	0.00	0.36	0.00	0.	0.00
445	5.500	21.66	0.04	15.09	157.28	8.01	11.25	0.00	11.25	0.00	6.89	0.00	0.00	0.00	0.00	0.40	0.00	0.	0.00
446	5.400	21.66	0.04	15.09	157.28	8.01	11.02	0.00	11.02	0.00	6.80	0.00	0.00	0.00	0.00	0.44	0.00	0.	0.00
447	5.300	21.66	0.04	15.09	157.28	8.01	10.80	0.00	10.80	0.00	6.71	0.00	0.00	0.00	0.00	0.48	0.00	0.	0.00
448	5.200	21.66	0.04	15.09	157.28	8.01	10.58	0.00	10.58	0.00	6.62	0.00	0.00	0.00	0.00	0.52	0.00	0.	0.00
449	5.100	21.66	0.04	15.09	157.28	8.02	10.37	0.00	10.37	0.00	6.53	0.00	0.00	0.00	0.00	0.56	0.00	0.	0.00
450	5.000	21.66	0.04	15.09	157.28	8.02	10.17	0.00	10.17	0.00	6.44	0.00	0.00	0.00	0.00	0.60	0.00	0.	0.00
451	4.900	21.66	0.04	15.09	157.28	8.02	9.97	0.00	9.97	0.00	6.36	0.00	0.00	0.00	0.00	0.64	0.00	0.	0.00
452	4.800	21.66	0.04	15.09	157.28	8.02	9.77	0.00	9.77	0.00	6.28	0.00	0.00	0.00	0.00	0.68	0.00	0.	0.00
453	4.700	21.66	0.04	15.09	157.28	8.02	9.58	0.00	9.58	0.00	6.19	0.00	0.00	0.00	0.00	0.72	0.00	0.	0.00
454	4.600	21.66	0.04	15.09	157.28	8.02	9.40	0.00	9.40	0.00	6.11	0.00	0.00	0.00	0.00	0.76	0.00	0.	0.00
455	4.500	21.66	0.04	15.09	157.28	8.02	9.22	0.00	9.22	0.00	6.03	0.00	0.00	0.00	0.00	0.80	0.00	0.	0.00
456	4.400	21.66	0.04	15.09	157.28	8.02	9.04	0.00	9.04	0.00	5.95	0.00	0.00	0.00	0.00	0.84	0.00	0.	0.00
457	4.300	21.66	0.04	15.09	157.28	8.03	8.87	0.00	8.87	0.00	5.88	0.00	0.00	0.00	0.00	0.88	0.00	0.	0.00
458	4.200	21.66	0.04	15.09	157.28	8.03	8.71	0.00	8.71	0.00	5.80	0.00	0.00	0.00	0.00	0.92	0.00	0.	0.00
459	4.100	21.66	0.04	15.09	157.28	8.03	8.54	0.00	8.54	0.00	5.72	0.00	0.00	0.00	0.00	0.96	0.00	0.	0.00
460	4.000	21.66	0.04	15.09	157.28	8.03	8.38	0.00	8.38	0.00	5.65	0.00	0.00	0.00	0.00	1.00	0.00	0.	0.00
461	3.900	21.66	0.04	15.09	157.28	8.03	8.23	0.00	8.23	0.00	5.58	0.00	0.00	0.00	0.00	1.04	0.00	0.	0.00
462	3.800	21.66	0.04	15.09	157.28	8.03	8.08	0.00	8.08	0.00	5.51	0.00	0.00	0.00	0.00	1.08	0.00	0.	0.00

463	3.700	21.66	0.04	15.09	157.28	8.03	7.93	0.00	7.93	0.00	5.44	0.00	0.00	0.00	0.00	1.12	0.00	0.	0.00
464	3.600	21.66	0.33	53.38	660.25	4.53	21.36	0.00	21.36	0.00	38.97	0.00	0.00	0.00	0.00	1.16	0.00	0.	0.00
465	3.500	21.66	0.33	53.38	660.25	5.78	21.30	0.00	21.30	0.00	38.91	0.00	0.00	0.00	0.00	1.20	0.00	0.	0.00
466	3.400	21.66	0.33	53.38	660.25	6.61	21.25	0.00	21.25	0.00	38.84	0.00	0.00	0.00	0.00	1.24	0.00	0.	0.00
467	3.300	21.66	0.33	53.38	660.25	7.16	21.20	0.00	21.20	0.00	38.78	0.00	0.00	0.00	0.00	1.28	0.00	0.	0.00
468	3.200	21.66	0.33	53.38	660.25	7.52	21.15	0.00	21.15	0.00	38.72	0.00	0.00	0.00	0.00	1.32	0.00	0.	0.00
469	3.100	21.66	0.33	53.38	660.25	7.76	21.10	0.00	21.10	0.00	38.65	0.00	0.00	0.00	0.00	1.36	0.00	0.	0.00
470	3.000	21.66	0.33	53.38	660.25	7.92	21.05	0.00	21.05	0.00	38.59	0.00	0.00	0.00	0.00	1.40	0.00	0.	0.00
471	2.900	21.66	0.33	53.38	660.25	8.03	20.99	0.00	20.99	0.00	38.53	0.00	0.00	0.00	0.00	1.44	0.00	0.	0.00
472	2.800	21.66	0.33	53.38	660.25	8.10	20.94	0.00	20.94	0.00	38.46	0.00	0.00	0.00	0.00	1.48	0.00	0.	0.00
473	2.700	21.66	0.33	53.38	660.25	8.15	20.89	0.00	20.89	0.00	38.40	0.00	0.00	0.00	0.00	1.52	0.00	0.	0.00
474	2.600	21.66	0.33	53.38	660.25	8.18	20.84	0.00	20.84	0.00	38.34	0.00	0.00	0.00	0.00	1.56	0.00	0.	0.00
475	2.500	21.66	0.33	53.38	660.25	8.20	20.79	0.00	20.79	0.00	38.28	0.00	0.00	0.00	0.00	1.60	0.00	0.	0.00
476	2.400	21.66	0.33	53.38	660.25	8.21	20.74	0.00	20.74	0.00	38.21	0.00	0.00	0.00	0.00	1.64	0.00	0.	0.00
477	2.300	21.66	0.33	53.38	660.25	8.22	20.69	0.00	20.69	0.00	38.15	0.00	0.00	0.00	0.00	1.68	0.00	0.	0.00
478	2.200	21.66	0.33	53.38	660.25	8.23	20.64	0.00	20.64	0.00	38.09	0.00	0.00	0.00	0.00	1.72	0.00	0.	0.00
479	2.100	21.66	0.33	53.38	660.25	8.23	20.59	0.00	20.59	0.00	38.03	0.00	0.00	0.00	0.00	1.76	0.00	0.	0.00
480	2.000	21.66	0.33	53.38	660.25	8.23	20.54	0.00	20.54	0.00	37.96	0.00	0.00	0.00	0.00	1.80	0.00	0.	0.00
481	1.900	21.66	0.33	53.38	660.25	8.24	20.49	0.00	20.49	0.00	37.90	0.00	0.00	0.00	0.00	1.84	0.00	0.	0.00
482	1.800	21.66	0.33	53.38	660.25	8.24	20.44	0.00	20.44	0.00	37.84	0.00	0.00	0.00	0.00	1.88	0.00	0.	0.00
483	1.700	21.66	0.33	53.38	660.25	8.24	20.39	0.00	20.39	0.00	37.78	0.00	0.00	0.00	0.00	1.92	0.00	0.	0.00
484	1.600	21.66	0.33	53.38	660.25	8.24	20.34	0.00	20.34	0.00	37.72	0.00	0.00	0.00	0.00	1.96	0.00	0.	0.00
485	1.500	21.66	0.33	53.38	660.25	8.24	20.29	0.00	20.29	0.00	37.65	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
486	1.400	21.66	0.33	53.38	660.25	8.24	20.24	0.00	20.24	0.00	37.59	0.00	0.00	0.00	0.00	2.04	0.00	0.	0.00
487	1.300	21.66	0.33	53.38	660.25	8.24	20.20	0.00	20.20	0.00	37.53	0.00	0.00	0.00	0.00	2.08	0.00	0.	0.00
488	1.200	21.66	0.33	53.38	660.25	8.24	20.15	0.00	20.15	0.00	37.47	0.00	0.00	0.00	0.00	2.12	0.00	0.	0.00
489	1.100	21.66	0.33	53.38	660.25	8.24	20.10	0.00	20.10	0.00	37.41	0.00	0.00	0.00	0.00	2.16	0.00	0.	0.00
490	1.000	21.66	0.33	53.38	660.25	8.24	20.05	0.00	20.05	0.00	37.35	0.00	0.00	0.00	0.00	2.20	0.00	0.	0.00
491	0.900	21.66	0.33	53.38	660.25	8.24	20.00	0.00	20.00	0.00	37.29	0.00	0.00	0.00	0.00	2.24	0.00	0.	0.00
492	0.800	21.66	0.33	53.38	660.25	8.24	19.95	0.00	19.95	0.00	37.23	0.00	0.00	0.00	0.00	2.28	0.00	0.	0.00
493	0.700	21.66	0.33	53.38	660.25	8.24	19.90	0.00	19.90	0.00	37.16	0.00	0.00	0.00	0.00	2.32	0.00	0.	0.00
494	0.600	21.66	0.33	53.38	660.25	8.24	19.86	0.00	19.86	0.00	37.10	0.00	0.00	0.00	0.00	2.36	0.00	0.	0.00
495	0.500	21.66	0.33	53.38	660.25	8.24	19.81	0.00	19.81	0.00	37.04	0.00	0.00	0.00	0.00	2.40	0.00	0.	0.00
496	0.400	21.66	0.33	53.38	660.25	8.24	19.76	0.00	19.76	0.00	36.98	0.00	0.00	0.00	0.00	2.44	0.00	0.	0.00
497	0.300	21.66	0.33	53.38	660.25	8.24	19.71	0.00	19.71	0.00	36.92	0.00	0.00	0.00	0.00	2.48	0.00	0.	0.00
498	0.200	21.66	0.33	53.38	660.25	8.24	19.67	0.00	19.67	0.00	36.86	0.00	0.00	0.00	0.00	2.52	0.00	0.	0.00
499	0.100	21.66	0.33	53.38	660.25	8.25	19.62	0.00	19.62	0.00	36.80	0.00	0.00	0.00	0.00	2.56	0.00	0.	0.00
500	0.000	21.66	0.33	53.38	660.25	8.25	19.57	0.00	19.57	0.00	36.74	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

STREAM SUMMARY
Dich#8Hwy434/I-12BBB

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME	=	6.07	DAYS		
MAXIMUM EFFLUENT	=	90.47	PERCENT		
FLOW	=	0.00028	TO	0.00294	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.05879	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.56	TO	0.56	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.37	TO	25.83	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	21.66	TO	21.66	deg C
DISSOLVED OXYGEN	=	4.53	TO	8.25	mg/L

FINAL REPORT Ditch #9 Folger
REACH NO. 24 Folger Ditch

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
521	HDWTR	0.00028	21.66	0.00	10.40	95.61	4.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
522	WSTLD	0.00018	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s

521	0.40	0.30	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
522	0.30	0.20	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
523	0.20	0.10	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
524	0.10	0.00	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
TOT						0.59			20.00	400.00					
AVG					0.0079		0.05	1.00			0.05				
CUM						0.59									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
521	0.300	8.80	15.37	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
522	0.200	8.79	16.41	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
523	0.100	8.79	16.41	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
524	0.000	8.79	16.41	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			15.63	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
521	0.300	21.66	0.00	10.40	95.61	7.09	2.19	0.00	2.19	0.00	1.00	0.00	0.00	0.00	0.00	0.65	0.00	0.	0.00
522	0.200	21.66	0.14	28.69	335.90	7.02	27.46	0.00	27.46	0.00	25.19	0.00	0.00	0.00	0.00	1.30	0.00	0.	0.00
523	0.100	21.66	0.14	28.69	335.90	7.64	27.02	0.00	27.02	0.00	24.93	0.00	0.00	0.00	0.00	1.95	0.00	0.	0.00
524	0.000	21.66	0.14	28.69	335.90	7.84	26.58	0.00	26.58	0.00	24.68	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

STREAM SUMMARY
Ditch #9 Folger

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME	=	0.59	DAYS		
MAXIMUM EFFLUENT	=	38.50	PERCENT		
FLOW	=	0.00028	TO	0.00046	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.00911	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.56	TO	0.56	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.37	TO	16.41	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	21.66	TO	21.66	deg C
DISSOLVED OXYGEN	=	7.02	TO	7.84	mg/L

FINAL REPORT Ditch A BerryTodd Rd
REACH NO. 27 Berry Todd Rd Ditch

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
564	HDWTR	0.00028	21.66	0.00	10.40	95.61	4.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
565	WSTLD	0.00245	30.60	0.37	57.90	719.70	2.00	57.50	0.00	57.50	0.00	86.00	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
564	2.00	1.90	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006

565	1.90	1.80	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
566	1.80	1.70	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
567	1.70	1.60	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
568	1.60	1.50	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
569	1.50	1.40	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
570	1.40	1.30	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
571	1.30	1.20	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
572	1.20	1.10	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
573	1.10	1.00	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
574	1.00	0.90	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
575	0.90	0.80	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
576	0.80	0.70	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
577	0.70	0.60	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
578	0.60	0.50	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
579	0.50	0.40	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
580	0.40	0.30	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
581	0.30	0.20	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
582	0.20	0.10	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
583	0.10	0.00	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
TOT						0.61			100.00	2000.00					
AVG					0.0380		0.05	1.00			0.05				
CUM						0.61									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
564	1.900	8.56	15.80	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
565	1.800	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
566	1.700	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
567	1.600	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
568	1.500	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
569	1.400	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
570	1.300	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
571	1.200	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
572	1.100	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
573	1.000	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
574	0.900	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
575	0.800	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
576	0.700	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
577	0.600	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
578	0.500	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
579	0.400	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
580	0.300	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
581	0.200	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
582	0.100	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
583	0.000	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			24.49	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* $g/m^2/d$ ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NCM
564	1.900	23.10	0.00	10.40	95.61	6.89	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.72	0.00	0.	0.00
565	1.800	23.10	0.33	53.03	655.77	4.41	51.68	0.00	51.68	0.00	77.15	0.00	0.00	0.00	0.00	1.44	0.00	0.	0.00
566	1.700	23.10	0.33	53.03	655.77	5.64	51.53	0.00	51.53	0.00	77.01	0.00	0.00	0.00	0.00	2.16	0.00	0.	0.00
567	1.600	23.10	0.33	53.03	655.77	6.42	51.38	0.00	51.38	0.00	76.87	0.00	0.00	0.00	0.00	2.88	0.00	0.	0.00
568	1.500	23.10	0.33	53.03	655.77	6.92	51.23	0.00	51.23	0.00	76.72	0.00	0.00	0.00	0.00	3.60	0.00	0.	0.00
569	1.400	23.10	0.33	53.03	655.77	7.24	51.08	0.00	51.08	0.00	76.58	0.00	0.00	0.00	0.00	4.32	0.00	0.	0.00
570	1.300	23.10	0.33	53.03	655.77	7.45	50.93	0.00	50.93	0.00	76.44	0.00	0.00	0.00	0.00	5.04	0.00	0.	0.00
571	1.200	23.10	0.33	53.03	655.77	7.58	50.78	0.00	50.78	0.00	76.29	0.00	0.00	0.00	0.00	5.76	0.00	0.	0.00
572	1.100	23.10	0.33	53.03	655.77	7.67	50.63	0.00	50.63	0.00	76.15	0.00	0.00	0.00	0.00	6.48	0.00	0.	0.00
573	1.000	23.10	0.33	53.03	655.77	7.72	50.48	0.00	50.48	0.00	76.01	0.00	0.00	0.00	0.00	7.20	0.00	0.	0.00
574	0.900	23.10	0.33	53.03	655.77	7.76	50.33	0.00	50.33	0.00	75.86	0.00	0.00	0.00	0.00	7.92	0.00	0.	0.00
575	0.800	23.10	0.33	53.03	655.77	7.78	50.18	0.00	50.18	0.00	75.72	0.00	0.00	0.00	0.00	8.64	0.00	0.	0.00
576	0.700	23.10	0.33	53.03	655.77	7.80	50.04	0.00	50.04	0.00	75.58	0.00	0.00	0.00	0.00	9.36	0.00	0.	0.00
577	0.600	23.10	0.33	53.03	655.77	7.81	49.89	0.00	49.89	0.00	75.43	0.00	0.00	0.00	0.00	10.08	0.00	0.	0.00
578	0.500	23.10	0.33	53.03	655.77	7.82	49.74	0.00	49.74	0.00	75.29	0.00	0.00	0.00	0.00	10.80	0.00	0.	0.00
579	0.400	23.10	0.33	53.03	655.77	7.83	49.60	0.00	49.60	0.00	75.15	0.00	0.00	0.00	0.00	11.52	0.00	0.	0.00
580	0.300	23.10	0.33	53.03	655.77	7.83	49.45	0.00	49.45	0.00	75.01	0.00	0.00	0.00	0.00	12.24	0.00	0.	0.00
581	0.200	23.10	0.33	53.03	655.77	7.83	49.30	0.00	49.30	0.00	74.87	0.00	0.00	0.00	0.00	12.96	0.00	0.	0.00
582	0.100	23.10	0.33	53.03	655.77	7.84	49.16	0.00	49.16	0.00	74.72	0.00	0.00	0.00	0.00	13.68	0.00	0.	0.00
583	0.000	23.10	0.33	53.03	655.77	7.84	49.02	0.00	49.02	0.00	74.58	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00

STREAM SUMMARY
Ditch A BerryTodd Rd

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME	=	0.61	DAYS		
MAXIMUM EFFLUENT	=	89.76	PERCENT		
FLOW	=	0.00028	TO	0.00273	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.05467	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.61	TO	0.61	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.80	TO	26.55	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.04	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	23.10	TO	23.10	deg C
DISSOLVED OXYGEN	=	4.41	TO	7.84	mg/L

FINAL REPORT Ditch B Hwy 190 BBB
REACH NO. 29 Hwy 190 Ditch BBB

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
595	HDWTR	0.00028	21.66	0.00	10.40	95.61	4.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
596	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
602	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
595	1.30	1.20	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
596	1.20	1.10	0.00029	1.9	0.00571	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
597	1.10	1.00	0.00029	1.9	0.00571	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
598	1.00	0.90	0.00029	1.9	0.00571	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
599	0.90	0.80	0.00029	1.9	0.00571	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
600	0.80	0.70	0.00029	1.9	0.00571	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
601	0.70	0.60	0.00029	1.9	0.00571	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
602	0.60	0.50	0.00029	2.2	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
603	0.50	0.40	0.00029	2.2	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
604	0.40	0.30	0.00029	2.2	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
605	0.30	0.20	0.00029	2.2	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
606	0.20	0.10	0.00029	2.2	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
607	0.10	0.00	0.00029	2.2	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
TOT						2.64			65.00	1300.00					
AVG					0.0057		0.05	1.00			0.05				
CUM						2.64									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
595	1.200	8.56	15.80	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
596	1.100	8.56	15.83	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
597	1.000	8.56	15.83	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
598	0.900	8.56	15.83	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
599	0.800	8.56	15.83	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
600	0.700	8.56	15.83	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
601	0.600	8.56	15.83	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
602	0.500	8.56	15.84	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
603	0.400	8.56	15.84	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
604	0.300	8.56	15.84	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
605	0.200	8.56	15.84	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
606	0.100	8.56	15.84	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
607	0.000	8.56	15.84	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00

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 AVG 20 DEG C RATE    14.91   0.08  0.05   0.00   0.00  0.00   0.00  0.50               0.03  0.05   0.00  0.00   0.00  0.00               0.00   0.00   0.00

 *   g/m²/d            **   mg/L/day


 ********************************************** WATER QUALITY CONSTITUENT VALUES **********************************************

 ELEM  ENDING   TEMP  SALN chloride  conduct    DO   BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   TOTN   PHOS  CHL A   MACRO     COLI     NCM
 NO.     DIST  DEG C   PPT     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L    g/m³  #/100mL

 595    1.200  23.10  0.00    10.40    95.61   6.89   2.20   0.00   2.20   0.00   1.00   0.00   0.00   0.00   0.00   1.11    0.00       0.    0.00
 596    1.100  23.10  0.01    11.28   107.20   7.54   4.02   0.00   4.02   0.00   2.16   0.00   0.00   0.00   0.00   2.22    0.00       0.    0.00
 597    1.000  23.10  0.01    11.28   107.20   7.72   3.97   0.00   3.97   0.00   2.14   0.00   0.00   0.00   0.00   3.32    0.00       0.    0.00
 598    0.900  23.10  0.01    11.28   107.20   7.77   3.91   0.00   3.91   0.00   2.12   0.00   0.00   0.00   0.00   4.43    0.00       0.    0.00
 599    0.800  23.10  0.01    11.28   107.20   7.78   3.86   0.00   3.86   0.00   2.10   0.00   0.00   0.00   0.00   5.54    0.00       0.    0.00
 600    0.700  23.10  0.01    11.28   107.20   7.79   3.81   0.00   3.81   0.00   2.08   0.00   0.00   0.00   0.00   6.65    0.00       0.    0.00
 601    0.600  23.10  0.01    11.28   107.20   7.79   3.76   0.00   3.76   0.00   2.06   0.00   0.00   0.00   0.00   7.75    0.00       0.    0.00
 602    0.500  23.10  0.01    11.43   109.13   7.79   4.02   0.00   4.02   0.00   2.23   0.00   0.00   0.00   0.00   8.86    0.00       0.    0.00
 603    0.400  23.10  0.01    11.43   109.13   7.80   3.97   0.00   3.97   0.00   2.21   0.00   0.00   0.00   0.00   9.97    0.00       0.    0.00
 604    0.300  23.10  0.01    11.43   109.13   7.80   3.91   0.00   3.91   0.00   2.19   0.00   0.00   0.00   0.00  11.08    0.00       0.    0.00
 605    0.200  23.10  0.01    11.43   109.13   7.81   3.86   0.00   3.86   0.00   2.17   0.00   0.00   0.00   0.00  12.18    0.00       0.    0.00
 606    0.100  23.10  0.01    11.43   109.13   7.81   3.81   0.00   3.81   0.00   2.15   0.00   0.00   0.00   0.00  13.29    0.00       0.    0.00
 607    0.000  23.10  0.01    11.43   109.13   7.82   3.76   0.00   3.76   0.00   2.13   0.00   0.00   0.00   0.00  14.40    0.00       0.    0.00


STREAM SUMMARY                                                    BAYOU LACOMBE WATERSHED MODEL
Ditch B Hwy 190 BBB                                               CALIBRATION

 TRAVEL TIME       =           2.64 DAYS

 MAXIMUM EFFLUENT  =           2.17 PERCENT

 FLOW              =   0.00028 TO    0.00029   m³/s
 DISPERSION        =   0.0000  TO    0.0000    m²/s
 VELOCITY          =   0.00560 TO    0.00572   m/s
 DEPTH             =   0.05    TO    0.05      m
 WIDTH             =   1.00    TO    1.00      m

 BOD DECAY         =    0.09   TO    0.09      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    0.61   TO    0.61      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =   15.80   TO   15.84      per day
 BOD SETTLING      =    0.05   TO    0.05      per day
 NBOD DECAY        =    0.04   TO    0.04      per day
 NBOD SETTLING     =    0.05   TO    0.05      per day

 TEMPERATURE       =   23.10   TO   23.10      deg C
 DISSOLVED OXYGEN  =    6.89   TO    7.82      mg/L


FINAL REPORT    Cypress Bayou                                     BAYOU LACOMBE WATERSHED MODEL
REACH NO. 34    CB03 to Hwy 190 ditch CB                          CALIBRATION

 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

  650  HDWTR     0.02300   23.25     0.14    22.50   286.90   1.53  16.39   0.00  16.39   0.00   2.55   0.00   0.00   0.00  24.60     0.00    0.00
 EACH  INCR      0.06294   23.25     0.14    22.50   286.90   1.53  16.39   0.00                  2.55   0.00   0.00   0.00    0.00     0.00
  651  WSTLD     0.00153   23.06     0.26    23.50   516.30   2.39  23.00   0.00  23.00   0.00  43.00   0.00   0.00   0.00    0.00     0.00    0.00


 ************************************************** HYDRAULIC PARAMETER VALUES **************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
  NO.    DIST    DIST               EFF     VELO      TIME                                  AREA    AREA     PRISM    VELO              VELO
          km      km        m³/s             m/s      days       m       m        m³         m²      m²        m³     m/s      m²/s     m/s

  650    4.90    4.80    0.08594   0.0   0.06319      0.02    0.29    4.69    136.01     469.00    1.36     35.64   0.001     1.000   0.063
  651    4.80    4.70    0.15042   1.0   0.11059      0.01    0.29    4.69    136.01     469.00    1.36     71.29   0.001     1.000   0.111
  652    4.70    4.60    0.21336   0.7   0.15687      0.01    0.29    4.69    136.01     469.00    1.36    106.93   0.002     1.000   0.157

  TOT                                               0.04                    408.03    1407.00
  AVG                                     0.0960            0.29    4.69                          1.36
  CUM                                               0.04

 ********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************

 ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN    NH3   NH3  DENIT   PO4   ALG   MAC   COLI    NCM    NCM
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NO.	DIST	D.O. mg/L	RATE 1/da	DECAY 1/da	SETT 1/da	DECAY 1/da	DECAY 1/da	SETT 1/da	DECAY 1/da	SOD *	SOD *	SOD *	DECAY 1/da	SETT 1/da	DECAY 1/da	SRCE *	RATE 1/da	SRCE *	PROD **	PROD **	DECAY 1/da	DECAY 1/da	SETT 1/da
650	4.800	8.53	2.91	0.06	0.05	0.00	0.00	0.00	0.00	7.36	7.36	7.36	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
651	4.700	8.53	3.40	0.06	0.05	0.00	0.00	0.00	0.00	7.36	7.36	7.36	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
652	4.600	8.53	3.74	0.06	0.05	0.00	0.00	0.00	0.00	7.36	7.36	7.36	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			3.14	0.07	0.05	0.00	0.00	0.00	0.00	6.00			0.14	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
650	4.800	23.25	0.14	22.50	287.21	1.45	16.36	0.00	16.36	0.00	2.60	0.00	0.00	0.00	0.00	24.60	0.00	0.	0.00
651	4.700	23.25	0.14	22.51	289.18	1.48	16.41	0.00	16.41	0.00	2.95	0.00	0.00	0.00	0.00	24.60	0.00	0.	0.00
652	4.600	23.25	0.14	22.51	288.57	1.51	16.42	0.00	16.42	0.00	2.84	0.00	0.00	0.00	0.00	24.60	0.00	0.	0.00

FINAL REPORT Cypress Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 36 Hwy 190 Ditch CB to CB02 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
669	UPR RCH	0.21336	23.25	0.14	22.51	288.57	1.51	16.42	0.00	16.42	0.00	2.84	0.00	0.00	0.00	24.60	0.00	0.00
669	TRIB	0.00037	23.25	0.20	31.14	392.53	7.72	20.03	0.00	20.03	0.00	13.64	0.00	0.00	0.00	24.60	0.00	0.00
674	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
677	WSTLD	0.00022	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
669	4.60	4.50	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	160.40	0.003	3.500	0.157
670	4.50	4.40	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	213.86	0.003	3.500	0.157
671	4.40	4.30	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	267.33	0.004	3.500	0.157
672	4.30	4.20	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	320.80	0.005	3.500	0.157
673	4.20	4.10	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	374.26	0.006	3.500	0.157
674	4.10	4.00	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	427.73	0.007	3.500	0.157
675	4.00	3.90	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	481.19	0.008	3.500	0.157
676	3.90	3.80	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	534.66	0.009	3.500	0.157
677	3.80	3.70	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	588.13	0.010	3.500	0.157
678	3.70	3.60	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	641.59	0.010	3.500	0.157
679	3.60	3.50	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	695.06	0.011	3.500	0.157
680	3.50	3.40	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	748.52	0.012	3.500	0.157
681	3.40	3.30	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	801.99	0.013	3.500	0.157
682	3.30	3.20	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	855.46	0.014	3.500	0.157
683	3.20	3.10	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	908.92	0.015	3.500	0.157
684	3.10	3.00	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	962.39	0.016	3.500	0.157
685	3.00	2.90	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	1015.85	0.017	3.500	0.157
TOT						0.13			2312.17	7973.00					
AVG					0.1572		0.29	4.69			1.36				
CUM						0.16									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
669	4.500	8.52	3.74	0.06	0.05	0.00	0.00	0.00	0.00	7.41	7.41	7.41	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
670	4.400	8.50	3.75	0.06	0.05	0.00	0.00	0.00	0.00	7.45	7.45	7.45	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
671	4.300	8.49	3.76	0.06	0.05	0.00	0.00	0.00	0.00	7.49	7.49	7.49	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
672	4.200	8.47	3.76	0.06	0.05	0.00	0.00	0.00	0.00	7.54	7.54	7.54	0.04	0.05	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
673	4.100	8.46	3.77	0.06	0.05	0.00	0.00	0.00	0.00	7.58	7.58	7.58	0.04	0.05	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
674	4.000	8.44	3.78	0.06	0.05	0.00	0.00	0.00	0.00	7.63	7.63	7.63	0.04	0.05	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
675	3.900	8.43	3.78	0.06	0.05	0.00	0.00	0.00	0.00	7.67	7.67	7.67	0.04	0.05	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
676	3.800	8.41	3.79	0.06	0.05	0.00	0.00	0.00	0.00	7.72	7.72	7.72	0.04	0.05	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
677	3.700	8.40	3.80	0.06	0.06	0.00	0.00	0.00	0.00	7.76	7.76	7.76	0.04	0.06	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
678	3.600	8.38	3.80	0.06	0.06	0.00	0.00	0.00	0.00	7.81	7.81	7.81	0.04	0.06	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
679	3.500	8.37	3.81	0.06	0.06	0.00	0.00	0.00	0.00	7.86	7.86	7.86	0.04	0.06	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
680	3.400	8.35	3.82	0.06	0.06	0.00	0.00	0.00	0.00	7.90	7.90	7.90	0.04	0.06	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00

681	3.300	8.34	3.82	0.06	0.06	0.00	0.00	0.00	0.00	7.95	7.95	7.95	0.04	0.06	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
682	3.200	8.32	3.83	0.06	0.06	0.00	0.00	0.00	0.00	8.00	8.00	8.00	0.04	0.06	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
683	3.100	8.31	3.84	0.06	0.06	0.00	0.00	0.00	0.00	8.04	8.04	8.04	0.04	0.06	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
684	3.000	8.30	3.84	0.06	0.06	0.00	0.00	0.00	0.00	8.09	8.09	8.09	0.03	0.06	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
685	2.900	8.28	3.85	0.05	0.06	0.00	0.00	0.00	0.00	8.14	8.14	8.14	0.01	0.06	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			3.51	0.07	0.05	0.00	0.00	0.00	0.00	6.00			0.14	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
669	4.500	23.34	0.14	22.52	288.73	1.52	16.63	0.00	16.63	0.00	2.85	0.00	0.00	0.00	0.00	24.48	0.00	0.	0.00
670	4.400	23.44	0.14	22.52	288.73	1.53	16.83	0.00	16.83	0.00	2.85	0.00	0.00	0.00	0.00	24.36	0.00	0.	0.00
671	4.300	23.53	0.14	22.52	288.73	1.53	17.02	0.00	17.02	0.00	2.85	0.00	0.00	0.00	0.00	24.25	0.00	0.	0.00
672	4.200	23.62	0.14	22.52	288.73	1.53	17.21	0.00	17.21	0.00	2.85	0.00	0.00	0.00	0.00	24.13	0.00	0.	0.00
673	4.100	23.72	0.14	22.52	288.73	1.53	17.40	0.00	17.40	0.00	2.85	0.00	0.00	0.00	0.00	24.01	0.00	0.	0.00
674	4.000	23.81	0.14	22.52	288.74	1.53	17.60	0.00	17.60	0.00	2.85	0.00	0.00	0.00	0.00	23.89	0.00	0.	0.00
675	3.900	23.90	0.14	22.52	288.75	1.53	17.79	0.00	17.79	0.00	2.84	0.00	0.00	0.00	0.00	23.78	0.00	0.	0.00
676	3.800	24.00	0.14	22.53	288.82	1.53	17.99	0.00	17.99	0.00	2.85	0.00	0.00	0.00	0.00	23.66	0.00	0.	0.00
677	3.700	24.09	0.14	22.56	289.18	1.53	18.22	0.00	18.22	0.00	2.90	0.00	0.00	0.00	0.00	23.54	0.00	0.	0.00
678	3.600	24.19	0.14	22.56	289.18	1.52	18.41	0.00	18.41	0.00	2.90	0.00	0.00	0.00	0.00	23.42	0.00	0.	0.00
679	3.500	24.28	0.14	22.56	289.18	1.51	18.60	0.00	18.60	0.00	2.90	0.00	0.00	0.00	0.00	23.31	0.00	0.	0.00
680	3.400	24.37	0.14	22.56	289.18	1.51	18.79	0.00	18.79	0.00	2.90	0.00	0.00	0.00	0.00	23.19	0.00	0.	0.00
681	3.300	24.47	0.14	22.56	289.18	1.50	18.98	0.00	18.98	0.00	2.89	0.00	0.00	0.00	0.00	23.07	0.00	0.	0.00
682	3.200	24.56	0.14	22.56	289.19	1.49	19.18	0.00	19.18	0.00	2.89	0.00	0.00	0.00	0.00	22.95	0.00	0.	0.00
683	3.100	24.65	0.14	22.58	289.23	1.47	19.38	0.00	19.38	0.00	2.89	0.00	0.00	0.00	0.00	22.84	0.00	0.	0.00
684	3.000	24.75	0.14	22.70	289.46	1.41	19.63	0.00	19.63	0.00	2.87	0.00	0.00	0.00	0.00	22.72	0.00	0.	0.00
685	2.900	24.84	0.14	23.33	290.75	1.12	20.16	0.00	20.16	0.00	2.81	0.00	0.00	0.00	0.00	22.60	0.00	0.	0.00

FINAL REPORT Cypress Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 37 CB02 to CB01 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
686	UPR RCH	0.21395	24.84	0.14	23.33	290.75	1.12	20.16	0.00	20.16	0.00	2.81	0.00	0.00	0.00	22.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
686	2.90	2.80	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	1228.96	0.001	5.500	0.011
687	2.80	2.70	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	1442.06	0.002	5.500	0.011
688	2.70	2.60	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	1655.17	0.002	5.500	0.011
689	2.60	2.50	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	1868.27	0.002	5.500	0.011
690	2.50	2.40	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	2081.37	0.002	5.500	0.011
691	2.40	2.30	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	2294.48	0.003	5.500	0.011
692	2.30	2.20	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	2507.58	0.003	5.500	0.011
693	2.20	2.10	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	2720.69	0.003	5.500	0.011
694	2.10	2.00	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	2933.79	0.003	5.500	0.011
695	2.00	1.90	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	3146.89	0.004	5.500	0.011
696	1.90	1.80	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	3360.00	0.004	5.500	0.011
697	1.80	1.70	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	3573.10	0.004	5.500	0.011
698	1.70	1.60	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	3786.21	0.004	5.500	0.011
699	1.60	1.50	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	3999.31	0.005	5.500	0.011
700	1.50	1.40	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	4212.41	0.005	5.500	0.011
701	1.40	1.30	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	4425.52	0.005	5.500	0.011
702	1.30	1.20	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	4638.62	0.005	5.500	0.011
703	1.20	1.10	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	4851.73	0.006	5.500	0.011
704	1.10	1.00	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	5064.83	0.006	5.500	0.011
705	1.00	0.90	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	5277.93	0.006	5.500	0.011
706	0.90	0.80	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	5491.04	0.006	5.500	0.011
707	0.80	0.70	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	5704.14	0.007	5.500	0.011
708	0.70	0.60	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	5917.25	0.007	5.500	0.011
709	0.60	0.50	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	6130.35	0.007	5.500	0.011
710	0.50	0.40	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	6343.45	0.007	5.500	0.011
711	0.40	0.30	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	6556.56	0.007	5.500	0.011
712	0.30	0.20	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	6769.66	0.008	5.500	0.011
TOT						2.85			52617.07	37854.00					
AVG					0.0110		1.39	14.02			19.49				
CUM						3.01									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
686	2.800	8.28	0.55	0.03	0.06	0.00	0.00	0.00	0.00	8.15	8.15	8.15	0.00	0.06	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
687	2.700	8.28	0.55	0.03	0.06	0.00	0.00	0.00	0.00	8.15	8.15	8.15	0.00	0.06	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
688	2.600	8.27	0.55	0.03	0.06	0.00	0.00	0.00	0.00	8.16	8.16	8.16	0.00	0.06	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
689	2.500	8.27	0.55	0.03	0.06	0.00	0.00	0.00	0.00	8.17	8.17	8.17	0.00	0.06	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
690	2.400	8.27	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.18	8.18	8.18	0.00	0.06	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
691	2.300	8.27	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.19	8.19	8.19	0.00	0.06	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
692	2.200	8.26	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.20	8.20	8.20	0.00	0.06	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
693	2.100	8.26	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.20	8.20	8.20	0.00	0.06	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
694	2.000	8.26	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.21	8.21	8.21	0.00	0.06	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
695	1.900	8.26	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.22	8.22	8.22	0.00	0.06	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
696	1.800	8.25	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.23	8.23	8.23	0.00	0.06	0.00	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
697	1.700	8.25	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.24	8.24	8.24	0.00	0.06	0.00	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
698	1.600	8.25	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.24	8.24	8.24	0.00	0.06	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
699	1.500	8.25	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.25	8.25	8.25	0.00	0.06	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
700	1.400	8.24	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.26	8.26	8.26	0.00	0.06	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
701	1.300	8.24	0.56	0.02	0.06	0.00	0.00	0.00	0.00	8.27	8.27	8.27	0.00	0.06	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
702	1.200	8.24	0.56	0.02	0.06	0.00	0.00	0.00	0.00	8.28	8.28	8.28	0.00	0.06	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
703	1.100	8.24	0.56	0.02	0.06	0.00	0.00	0.00	0.00	8.29	8.29	8.29	0.00	0.06	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
704	1.000	8.23	0.56	0.03	0.06	0.00	0.00	0.00	0.00	8.29	8.29	8.29	0.00	0.06	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
705	0.900	8.23	0.56	0.03	0.06	0.00	0.00	0.00	0.00	8.30	8.30	8.30	0.00	0.06	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
706	0.800	8.23	0.56	0.04	0.06	0.00	0.00	0.00	0.00	8.31	8.31	8.31	0.01	0.06	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
707	0.700	8.23	0.56	0.05	0.06	0.00	0.00	0.00	0.00	8.32	8.32	8.32	0.02	0.06	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
708	0.600	8.22	0.56	0.06	0.06	0.00	0.00	0.00	0.00	8.33	8.33	8.33	0.04	0.06	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
709	0.500	8.22	0.56	0.07	0.06	0.00	0.00	0.00	0.00	8.34	8.34	8.34	0.06	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
710	0.400	8.22	0.56	0.07	0.06	0.00	0.00	0.00	0.00	8.34	8.34	8.34	0.06	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
711	0.300	8.21	0.56	0.07	0.06	0.00	0.00	0.00	0.00	8.35	8.35	8.35	0.07	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
712	0.200	8.21	0.56	0.07	0.06	0.00	0.00	0.00	0.00	8.36	8.36	8.36	0.07	0.06	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.50	0.05	0.05	0.00	0.00	0.00	0.00	6.00			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
686	2.800	24.86	0.14	23.63	291.35	0.98	20.34	0.00	20.34	0.00	2.78	0.00	0.00	0.00	0.00	22.53	0.00	0.	0.00
687	2.700	24.87	0.14	23.84	291.79	0.91	20.45	0.00	20.45	0.00	2.76	0.00	0.00	0.00	0.00	22.45	0.00	0.	0.00
688	2.600	24.89	0.14	24.10	292.31	0.84	20.55	0.00	20.55	0.00	2.74	0.00	0.00	0.00	0.00	22.38	0.00	0.	0.00
689	2.500	24.90	0.14	24.40	292.93	0.77	20.65	0.00	20.65	0.00	2.73	0.00	0.00	0.00	0.00	22.30	0.00	0.	0.00
690	2.400	24.92	0.14	24.77	293.68	0.72	20.74	0.00	20.74	0.00	2.71	0.00	0.00	0.00	0.00	22.23	0.00	0.	0.00
691	2.300	24.94	0.14	25.21	294.58	0.66	20.83	0.00	20.83	0.00	2.69	0.00	0.00	0.00	0.00	22.16	0.00	0.	0.00
692	2.200	24.95	0.14	25.74	295.66	0.62	20.91	0.00	20.91	0.00	2.67	0.00	0.00	0.00	0.00	22.08	0.00	0.	0.00
693	2.100	24.97	0.15	26.38	296.95	0.58	20.98	0.00	20.98	0.00	2.65	0.00	0.00	0.00	0.00	22.01	0.00	0.	0.00
694	2.000	24.98	0.15	27.14	298.50	0.54	21.04	0.00	21.04	0.00	2.63	0.00	0.00	0.00	0.00	21.93	0.00	0.	0.00
695	1.900	25.00	0.15	28.06	300.36	0.51	21.08	0.00	21.08	0.00	2.61	0.00	0.00	0.00	0.00	21.86	0.00	0.	0.00
696	1.800	25.02	0.15	29.16	302.59	0.49	21.10	0.00	21.10	0.00	2.58	0.00	0.00	0.00	0.00	21.79	0.00	0.	0.00
697	1.700	25.03	0.15	30.47	305.27	0.47	21.10	0.00	21.10	0.00	2.56	0.00	0.00	0.00	0.00	21.71	0.00	0.	0.00
698	1.600	25.05	0.15	32.05	308.48	0.47	21.07	0.00	21.07	0.00	2.53	0.00	0.00	0.00	0.00	21.64	0.00	0.	0.00
699	1.500	25.06	0.15	33.95	312.33	0.47	21.00	0.00	21.00	0.00	2.50	0.00	0.00	0.00	0.00	21.56	0.00	0.	0.00
700	1.400	25.08	0.16	36.22	316.95	0.49	20.89	0.00	20.89	0.00	2.47	0.00	0.00	0.00	0.00	21.49	0.00	0.	0.00
701	1.300	25.09	0.16	38.95	322.50	0.52	20.74	0.00	20.74	0.00	2.44	0.00	0.00	0.00	0.00	21.41	0.00	0.	0.00
702	1.200	25.11	0.16	42.22	329.15	0.58	20.52	0.00	20.52	0.00	2.40	0.00	0.00	0.00	0.00	21.34	0.00	0.	0.00
703	1.100	25.13	0.17	46.14	337.13	0.66	20.24	0.00	20.24	0.00	2.36	0.00	0.00	0.00	0.00	21.27	0.00	0.	0.00
704	1.000	25.14	0.17	50.85	346.70	0.78	19.87	0.00	19.87	0.00	2.31	0.00	0.00	0.00	0.00	21.19	0.00	0.	0.00
705	0.900	25.16	0.18	56.49	358.18	0.94	19.40	0.00	19.40	0.00	2.25	0.00	0.00	0.00	0.00	21.12	0.00	0.	0.00
706	0.800	25.17	0.19	63.27	371.95	1.16	18.81	0.00	18.81	0.00	2.19	0.00	0.00	0.00	0.00	21.04	0.00	0.	0.00
707	0.700	25.19	0.20	71.39	388.47	1.46	18.09	0.00	18.09	0.00	2.12	0.00	0.00	0.00	0.00	20.97	0.00	0.	0.00
708	0.600	25.21	0.21	81.14	408.29	1.85	17.19	0.00	17.19	0.00	2.03	0.00	0.00	0.00	0.00	20.90	0.00	0.	0.00
709	0.500	25.22	0.22	92.83	432.07	2.36	16.11	0.00	16.11	0.00	1.93	0.00	0.00	0.00	0.00	20.82	0.00	0.	0.00
710	0.400	25.24	0.24	106.86	460.59	3.04	14.78	0.00	14.78	0.00	1.82	0.00	0.00	0.00	0.00	20.75	0.00	0.	0.00
711	0.300	25.25	0.26	123.69	494.81	3.90	13.18	0.00	13.18	0.00	1.69	0.00	0.00	0.00	0.00	20.67	0.00	0.	0.00
712	0.200	25.27	0.28	143.88	535.86	5.01	11.22	0.00	11.22	0.00	1.54	0.00	0.00	0.00	0.00	20.60	0.00	0.	0.00

FINAL REPORT Cypress Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 38 CB01to confluence w/BayouLacombe CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM

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  713  UPR RCH   0.21395   25.27     0.28   143.88   535.86   5.01  11.22   0.00  11.22   0.00   1.54   0.00   0.00   0.00  20.60     0.00    0.00

 ************************************************* HYDRAULIC PARAMETER VALUES *************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
  NO.    DIST    DIST               EFF     VELO      TIME                                  AREA    AREA     PRISM    VELO              VELO
          km      km        m³/s              m/s      days       m       m        m³         m²      m²        m³     m/s      m²/s     m/s

  713    0.20    0.10    0.21395   0.9   0.00222      0.52    2.73   35.36   9653.28    3536.00   96.53   7307.13   0.002     7.500   0.002
  714    0.10    0.00    0.21395   0.9   0.00222      0.52    2.73   35.36   9653.28    3536.00   96.53   7844.61   0.002     7.500   0.002

  TOT                                                 1.04                   19306.56    7072.00
  AVG                                        0.0022            2.73   35.36                          96.53
  CUM                                                 4.05

 ********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************

 ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN    NH3   NH3  DENIT   PO4   ALG   MAC   COLI    NCM    NCM
 NO.     DIST  D.O.    RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
               mg/L    1/da   1/da  1/da   1/da   1/da  1/da   1/da     *     *     *    1/da  1/da   1/da     *    1/da     *    **    **   1/da   1/da   1/da

 713    0.100  8.19    0.28   0.07  0.06   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.11  0.06   0.00  0.00   0.00  0.00  1.21  0.00   0.00   0.00   0.00
 714    0.000  8.18    0.28   0.07  0.06   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.11  0.06   0.00  0.00   0.00  0.00  1.11  0.00   0.00   0.00   0.00

 AVG 20 DEG C RATE     0.26   0.05  0.05   0.00   0.00  0.00   0.00  0.00                0.08  0.05   0.00  0.00   0.00  0.00                0.00   0.00   0.00

 *   g/m²/d            **   mg/L/day

 ********************************************** WATER QUALITY CONSTITUENT VALUES **********************************************

 ELEM  ENDING   TEMP  SALN chloride  conduct    DO   BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   TOTN   PHOS  CHL A   MACRO     COLI     NCM
 NO.     DIST  DEG C   PPT     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L    g/m³  #/100mL

 713    0.100  25.38  0.29   150.12   548.56   5.38  10.61   0.00  10.61   0.00   1.49   0.00   0.00   0.00   0.00  18.90    0.00       0.    0.00
 714    0.000  25.49  0.29   153.89   556.22   5.58  10.22   0.00  10.22   0.00   1.47   0.00   0.00   0.00   0.00  17.20    0.00       0.    0.00


STREAM SUMMARY                                                BAYOU LACOMBE WATERSHED MODEL
Cypress Bayou                                                 CALIBRATION

 TRAVEL TIME       =           4.05 DAYS

 MAXIMUM EFFLUENT  =           1.02 PERCENT

 FLOW              =   0.08594 TO    0.21395   m³/s
 DISPERSION        =   1.0000  TO    7.5000    m²/s
 VELOCITY          =   0.00222 TO    0.15730   m/s
 DEPTH             =   0.29    TO    2.73      m
 WIDTH             =   4.69    TO   35.36      m

 BOD DECAY         =    0.02   TO    0.07      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    0.00   TO    8.36      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =    0.28   TO    3.85      per day
 BOD SETTLING      =    0.05   TO    0.06      per day
 NBOD DECAY        =    0.00   TO    0.11      per day
 NBOD SETTLING     =    0.05   TO    0.06      per day

 TEMPERATURE       =   23.25   TO   25.49      deg C
 DISSOLVED OXYGEN  =    0.47   TO    5.58      mg/L


FINAL REPORT    Ditch C Hwy 190 CB                            BAYOU LACOMBE WATERSHED MODEL
REACH NO. 35    Hwy 190 Ditch CB                              CALIBRATION

 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

  653  HDWTR     0.00028   23.25     0.14    22.50   286.90   4.00   2.20   0.00   2.20   0.00   1.00   0.00   0.00   0.00   0.00     0.00    0.00
  654  WSTLD     0.00007   30.60     0.37    57.90   719.70   2.00 103.50   0.00 103.50   0.00  64.50   0.00   0.00   0.00   0.00     0.00    0.00
  655  WSTLD     0.00001   30.60     0.37    57.90   719.70   2.00 103.50   0.00 103.50   0.00  64.50   0.00   0.00   0.00   0.00     0.00    0.00
  660  WSTLD     0.00000   30.60     0.37    57.90   719.70   2.00 103.50   0.00 103.50   0.00  64.50   0.00   0.00   0.00   0.00     0.00    0.00
  661  WSTLD     0.00000   30.60     0.37    57.90   719.70   2.00 103.50   0.00 103.50   0.00  64.50   0.00   0.00   0.00   0.00     0.00    0.00
  663  WSTLD     0.00000   30.60     0.37    57.90   719.70   2.00 103.50   0.00 103.50   0.00  64.50   0.00   0.00   0.00   0.00     0.00    0.00

 ************************************************* HYDRAULIC PARAMETER VALUES *************************************************
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ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
653	1.60	1.50	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
654	1.50	1.40	0.00035	21.0	0.00709	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
655	1.40	1.30	0.00036	22.9	0.00727	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
656	1.30	1.20	0.00036	22.9	0.00727	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
657	1.20	1.10	0.00036	22.9	0.00727	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
658	1.10	1.00	0.00036	22.9	0.00727	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
659	1.00	0.90	0.00036	22.9	0.00727	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
660	0.90	0.80	0.00036	23.1	0.00728	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
661	0.80	0.70	0.00037	23.5	0.00732	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
662	0.70	0.60	0.00037	23.5	0.00732	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
663	0.60	0.50	0.00037	24.4	0.00741	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
664	0.50	0.40	0.00037	24.4	0.00741	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
665	0.40	0.30	0.00037	24.4	0.00741	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
666	0.30	0.20	0.00037	24.4	0.00741	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
667	0.20	0.10	0.00037	24.4	0.00741	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
668	0.10	0.00	0.00037	24.4	0.00741	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
TOT						2.58			80.00	1600.00					
AVG					0.0072		0.05	1.00			0.05				
CUM						2.58									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
653	1.500	8.53	15.85	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
654	1.400	8.53	16.30	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
655	1.300	8.53	16.35	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
656	1.200	8.53	16.35	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
657	1.100	8.53	16.35	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
658	1.000	8.53	16.35	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
659	0.900	8.53	16.35	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
660	0.800	8.53	16.36	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
661	0.700	8.53	16.37	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
662	0.600	8.53	16.37	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
663	0.500	8.53	16.40	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
664	0.400	8.53	16.40	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
665	0.300	8.53	16.40	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
666	0.200	8.53	16.40	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
667	0.100	8.53	16.40	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
668	0.000	8.53	16.40	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			15.34	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
653	1.500	23.25	0.14	22.50	286.90	6.87	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	1.54	0.00	0.	0.00
654	1.400	23.25	0.19	29.94	377.86	7.14	22.99	0.00	22.99	0.00	14.15	0.00	0.00	0.00	0.00	3.08	0.00	0.	0.00
655	1.300	23.25	0.19	30.62	386.14	7.45	24.42	0.00	24.42	0.00	15.16	0.00	0.00	0.00	0.00	4.61	0.00	0.	0.00
656	1.200	23.25	0.19	30.62	386.14	7.58	23.91	0.00	23.91	0.00	14.96	0.00	0.00	0.00	0.00	6.15	0.00	0.	0.00
657	1.100	23.25	0.19	30.62	386.14	7.62	23.41	0.00	23.41	0.00	14.76	0.00	0.00	0.00	0.00	7.69	0.00	0.	0.00
658	1.000	23.25	0.19	30.62	386.14	7.64	22.93	0.00	22.93	0.00	14.56	0.00	0.00	0.00	0.00	9.23	0.00	0.	0.00
659	0.900	23.25	0.19	30.62	386.14	7.65	22.45	0.00	22.45	0.00	14.37	0.00	0.00	0.00	0.00	10.76	0.00	0.	0.00
660	0.800	23.25	0.19	30.68	386.96	7.66	22.18	0.00	22.18	0.00	14.30	0.00	0.00	0.00	0.00	12.30	0.00	0.	0.00
661	0.700	23.25	0.19	30.82	388.60	7.66	22.12	0.00	22.12	0.00	14.36	0.00	0.00	0.00	0.00	13.84	0.00	0.	0.00
662	0.600	23.25	0.19	30.82	388.60	7.67	21.67	0.00	21.67	0.00	14.17	0.00	0.00	0.00	0.00	15.38	0.00	0.	0.00
663	0.500	23.25	0.20	31.14	392.53	7.66	22.18	0.00	22.18	0.00	14.57	0.00	0.00	0.00	0.00	16.91	0.00	0.	0.00
664	0.400	23.25	0.20	31.14	392.53	7.68	21.73	0.00	21.73	0.00	14.38	0.00	0.00	0.00	0.00	18.45	0.00	0.	0.00
665	0.300	23.25	0.20	31.14	392.53	7.69	21.29	0.00	21.29	0.00	14.19	0.00	0.00	0.00	0.00	19.99	0.00	0.	0.00
666	0.200	23.25	0.20	31.14	392.53	7.70	20.86	0.00	20.86	0.00	14.01	0.00	0.00	0.00	0.00	21.52	0.00	0.	0.00
667	0.100	23.25	0.20	31.14	392.53	7.71	20.44	0.00	20.44	0.00	13.82	0.00	0.00	0.00	0.00	23.06	0.00	0.	0.00
668	0.000	23.25	0.20	31.14	392.53	7.72	20.03	0.00	20.03	0.00	13.64	0.00	0.00	0.00	0.00	24.60	0.00	0.	0.00

STREAM SUMMARY
Ditch C Hwy 190 CB

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME = 2.58 DAYS

MAXIMUM EFFLUENT = 24.41 PERCENT

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FLOW              =   0.00028 TO    0.00037   m³/s
DISPERSION        =   0.0000  TO    0.0000    m²/s
VELOCITY          =   0.00560 TO    0.00741   m/s
DEPTH             =   0.05    TO    0.05      m
WIDTH             =   1.00    TO    1.00      m

BOD DECAY         =    0.09   TO    0.09      per day
NH3 DECAY         =    0.00   TO    0.00      per day
SOD               =    0.61   TO    0.61      g/m²/d
NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
REAERATION        =   15.85   TO   16.40      per day
BOD SETTLING      =    0.05   TO    0.05      per day
NBOD DECAY        =    0.04   TO    0.04      per day
NBOD SETTLING     =    0.05   TO    0.05      per day

TEMPERATURE       =   23.25   TO   23.25      deg C
DISSOLVED OXYGEN  =    6.87   TO    7.72      mg/L


    .....EXECUTION COMPLETED
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Appendix B2 – Calibration Justification

DATA TYPE 3 - PROGRAM CONSTANTS			
CONSTANT NAME	**VALUE**	**UNITS**	**DATA SOURCE**
DISPERSION EQUATION	1		Dispersion values were entered manually.
OCEAN EXCHANGE RATIO	1		Accounts for dispersive/tidal exchange between the lower boundary and the stream
TIDE HEIGHT	0.152	meters	Typical for Lake Pontchartrain stream. Verified by data from New Canal Station.
TIDAL PERIOD	25	hours	LAQUAL Default
PERIOD OF TIDAL RISE	12.5	hours	LAQUAL Default
KL MINIMUM	0.7	m/day	Louisiana Standard Practice. The minimum KL of 2.3 ft/day converted to 0.70 m/day.
INHIBITION CONTROL VALUE	3		The water column dissolved oxygen demand is assumed to come primarily from facultative bacteria under anoxic conditions and SOD is not influenced by modeled dissolved oxygen levels in the upper water column.
K2 MAXIMUM	25	1/day at 20 deg C	Louisiana Standard Practice
HYDRAULIC CALCULATION METHOD	2		The low slopes in this waterbody cause a substantial amount of water to be present during critical flow conditions. This method allows the model to predict a more accurate depth and width during low flow conditions.
ALGAE OXYGEN PROD	0.05	mg O/µg chl-a/day	LAQUAL Default. Accounts for the net oxygen production per unit of chlorophyll-a
SETTLING RATE UNITS	2		Sets units to 1/day.

DATA TYPE 8 - REACH IDENTIFICATION DATA						
Reach	ID	Name	Upstream River Kilometer	Downstream River Kilometer	Element Length, Kilometer	Data Source
1	BL	BL01 TO Hwy 36 Ditch BL	31.0	30.9	0.01	SURVEY GPS DATA (WHERE APPLICABLE) AND ARCGIS--ALL REACHES
2	D1	Hwy 36 Ditch BL	4.2	0.0	0.1	
3	BL	Hwy 36 Ditch BL to BL02	30.9	25.2	0.1	
4	BL	BL02 to BL03	25.2	20.3	0.1	
5	BL	BL03 to SNG Ditch	20.3	19.4	0.1	
6	D2	SNG Ditch	2.1	0.0	0.1	
7	BL	SNG Ditch to Hwy 434/I-12 Ditch BL	19.4	19.1	0.1	
8	D3	Hwy 434/I-12 Ditch BL	3.0	0.0	0.1	
9	BL	Hwy 434/I-12 Ditch BL to BL04	19.1	18.9	0.1	
10	BL	BL04 to Keller Barn Ditch	18.9	17.3	0.1	
11	D4	Keller Barn Ditch	0.9	0.0	0.1	
12	BL	Keller Barn Ditch To Beau Village Ditch	17.3	14.6	0.1	
13	D5	Beau Village Ditch	3	0	0.1	
14	BL	Beau Village Ditch to BL05	14.6	13.2	0.1	
15	BL	BL05 to Hwy 190 Ditch BL	13.2	11.1	0.1	
16	D6	Hwy 190 Ditch BL	2.2	0	0.1	
17	BL	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	11.1	11	0.01	
18	D7	Hwy 434/190 Ditch BL	2.2	0	0.1	
19	BL	Hwy 434/190 Ditch BL to BL06	11	10.9	0.01	
20	BL	BL06 to confluence with BBB	10.9	8.8	0.1	
21	BB	BB03 to Hwy 434/I-12 ditch BBB	5.2	5.1	0.01	
22	D8	Hwy 434/I-12 Ditch BBB	6.5	0	0.1	
23	BB	Hwy 434/I-12 Ditch BBB to Folger Ditch	5.1	4.9	0.01	
24	D9	Folger Ditch	0.4	0	0.1	
25	BB	Folger Ditch to BB02	4.9	2	0.1	
26	BB	BB02 to Berry Todd Rd Ditch	2	1.9	0.01	
27	DA	Berry Todd Rd Ditch	2	0	0.1	
28	BB	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	1.9	0.8	0.1	
29	DB	Hwy 190 Ditch BBB	1.3	0	0.1	
30	BB	Hwy 190 Ditch BBB to BB01	0.8	0.3	0.1	
31	BB	BB01 to Confluence With Bayou Lacombe	0.3	0	0.1	
32	BL	Big Branch Bayou to BL07	8.8	8.7	0.01	
33	BL	BL07 to confluence w/ Cypress Bayou	8.7	6.3	0.1	
34	CB	CB03 to Hwy 190 ditch CB	4.9	4.6	0.1	
35	DC	Hwy 190 Ditch CB	1.6	0	0.1	
36	CB	Hwy 190 Ditch CB to CB02	4.6	2.9	0.1	
37	CB	CB02 to CB01	2.9	0.2	0.1	
38	CB	CB01 to confluence w/ Bayou Lacombe	0.2	0	0.1	
39	BL	Cypress Bayou to BL08	6.3	6.1	0.1	
40	BL	BL08 to BL09	6.1	0.3	0.1	
41	BL	BL09 to Lake Pontchartrain	0.3	0	0.1	

		DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS			
Reach	Name	Width Coeff. "a"	Width Exp. "b"	Width Const.	Data Source
1	BL01 TO Hwy 36 Ditch BL	0	0	5.79	BL01
2	Hwy 36 Ditch BL	0	0	1	Generic ditch
3	Hwy 36 Ditch BL to BL02	0	0	5.79	BL01
4	BL02 to BL03	0	0	6.1	BL02
5	BL03 to SNG Ditch	0	0	7.16	BL03
6	SNG Ditch	0	0	1	Generic ditch
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0	0	7.16	BL03
8	Hwy 434/I-12 Ditch BL	0	0	1	Generic ditch
9	Hwy 434/I-12 Ditch BL to BL04	0	0	7.16	BL03
10	BL04 to Keller Barn Ditch	0	0	9.3	BL04
11	Keller Barn Ditch	0	0	1	Generic ditch
12	Keller Barn Ditch To Beau Village Ditch	0	0	9.3	BL04
13	Beau Village Ditch	0	0	1	Generic ditch
14	Beau Village Ditch to BL05	0	0	9.3	BL04
15	BL05 to Hwy 190 Ditch BL	0	0	25.3	BL05
16	Hwy 190 Ditch BL	0	0	1	Generic ditch
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0	0	25.3	BL05
18	Hwy 434/190 Ditch BL	0	0	1	Generic ditch
19	Hwy 434/190 Ditch BL to BL06	0	0	25.3	BL05
20	BL06 to confluence with BBB	0	0	44.2	BL06
21	BB03 to Hwy 434/I-12 ditch BBB	0	0	3.66	BB03
22	Hwy 434/I-12 Ditch BBB	0	0	1	Generic ditch
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0	0	3.66	BB03
24	Folger Ditch	0	0	1	Generic ditch
25	Folger Ditch to BB02	0	0	3.66	BB03
26	BB02 to Berry Todd Rd Ditch	0	0	15.24	BB02
27	Berry Todd Rd Ditch	0	0	1	Generic ditch
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	0	0	15.24	BB02
29	Hwy 190 Ditch BBB	0	0	1	Generic ditch
30	Hwy 190 Ditch BBB to BB01	0	0	15.24	BB02
31	BB01 to Confluence With Bayou Lacombe	0	0	39.62	BB01
32	Big Branch Bayou to BL07	0	0	82.3	BL07
33	BL07 to confluence w/ Cypress Bayou	0	0	82.3	BL07
34	CB03 to Hwy 190 ditch CB	0	0	4.69	CB03
35	Hwy 190 Ditch CB	0	0	1	Generic ditch
36	Hwy 190 Ditch CB to CB02	0	0	4.69	CB03
37	CB02 to CB01	0	0	14.02	CB02
38	CB01 to confluence w/ Bayou Lacombe	0	0	35.36	CB01
39	Cypress Bayou to BL08	0	0	74.68	BL08
40	BL08 to BL09	0	0	74.68	BL08
41	BL09 to Lake Pontchartrain	0	0	99.36	BL09

		ATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENT				PE 9 - ADVECTIVE HYDRAULIC COEFF	
Reach	Name	Depth Coeff. "d"	Depth Exp. "e"	Depth Const. "f"	Data Source	Manning's "n"	Data Source
1	BL01 TO Hwy 36 Ditch BL	0	0	0.4	BL01	0.02	TYPICAL FOR LA STREAMS-ALL REACHES
2	Hwy 36 Ditch BL	0	0	0.05	Generic ditch	0.02	
3	Hwy 36 Ditch BL to BL02	0	0	0.4	BL01	0.02	
4	BL02 to BL03	0	0	0.18	BL02	0.02	
5	BL03 to SNG Ditch	0	0	0.17	BL03	0.02	
6	SNG Ditch	0	0	0.05	Generic ditch	0.02	
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0	0	0.17	BL03	0.02	
8	Hwy 434/I-12 Ditch BL	0	0	0.05	Generic ditch	0.02	
9	Hwy 434/I-12 Ditch BL to BL04	0	0	0.17	BL03	0.02	
10	BL04 to Keller Barn Ditch	0	0	0.42	BL04	0.02	
11	Keller Barn Ditch	0	0	0.05	Generic ditch	0.02	
12	Keller Barn Ditch To Beau Village Ditch	0	0	0.42	BL04	0.02	
13	Beau Village Ditch	0	0	0.05	Generic ditch	0.02	
14	Beau Village Ditch to BL05	0	0	0.42	BL04	0.02	
15	BL05 to Hwy 190 Ditch BL	0	0	3.6	BL05	0.02	
16	Hwy 190 Ditch BL	0	0	0.05	Generic ditch	0.02	
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0	0	3.6	BL05	0.02	
18	Hwy 434/190 Ditch BL	0	0	0.05	Generic ditch	0.02	
19	Hwy 434/190 Ditch BL to BL06	0	0	3.6	BL05	0.02	
20	BL06 to confluence with BBB	0	0	3.15	BL06	0.02	
21	BB03 to Hwy 434/I-12 ditch BBB	0	0	0.39	BB03	0.02	
22	Hwy 434/I-12 Ditch BBB	0	0	0.05	Generic ditch	0.02	
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0	0	0.39	BB03	0.02	
24	Folger Ditch	0	0	0.05	Generic ditch	0.02	
25	Folger Ditch to BB02	0	0	0.39	BB03	0.02	
26	BB02 to Berry Todd Rd Ditch	0	0	1.12	BB02	0.02	
27	Berry Todd Rd Ditch	0	0	0.05	Generic ditch	0.02	
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	0	0	1.12	BB02	0.02	
29	Hwy 190 Ditch BBB	0	0	0.05	Generic ditch	0.02	
30	Hwy 190 Ditch BBB to BB01	0	0	1.12	BB02	0.02	
31	BB01 to Confluence With Bayou Lacombe	0	0	2.13	BB01	0.02	
32	Big Branch Bayou to BL07	0	0	2.56	BL07	0.02	
33	BL07 to confluence w/ Cypress Bayou	0	0	2.56	BL07	0.02	
34	CB03 to Hwy 190 ditch CB	0	0	0.29	CB03	0.02	
35	Hwy 190 Ditch CB	0	0	0.05	Generic ditch	0.02	
36	Hwy 190 Ditch CB to CB02	0	0	0.29	CB03	0.02	
37	CB02 to CB01	0	0	1.39	CB02	0.02	
38	CB01 to confluence w/ Bayou Lacombe	0	0	2.73	CB01	0.02	
39	Cypress Bayou to BL08	0	0	3.03	BL08	0.02	
40	BL08 to BL09	0	0	3.03	BL08	0.02	
41	BL09 to Lake Pontchartrain	0	0	1.8	BL09	0.02	

		DATA TYPE 10 - DISPERSIVE HYDRAULIC COEFFICIENTS			
Reach	**Name**	**Tidal Range**	**Data Source**	**Dispersion Coeff. "a"**	**Data Source**
1	BL01 TO Hwy 36 Ditch BL	0	For all reaches, flow measurements and water quality were analyzed to determine the extent of the tidal influence.	0.5	For all reaches, dispersion was entered manually and set at values similar to Tchefuncte River and Bayous Bonfouca and Liberty. Dispersion was not included for the ditches.
2	Hwy 36 Ditch BL	0		0.0	
3	Hwy 36 Ditch BL to BL02	0		0.5	
4	BL02 to BL03	0		0.5	
5	BL03 to SNG Ditch	0		0.5	
6	SNG Ditch	0		0.0	
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0		0.5	
8	Hwy 434/I-12 Ditch BL	0		0.0	
9	Hwy 434/I-12 Ditch BL to BL04	0		0.5	
10	BL04 to Keller Barn Ditch	0.25		0.5	
11	Keller Barn Ditch	0		0.0	
12	Keller Barn Ditch To Beau Village Ditch	0.25		0.5	
13	Beau Village Ditch	0		0.0	
14	Beau Village Ditch to BL05	0.5		0.5	
15	BL05 to Hwy 190 Ditch BL	0.75		0.5	
16	Hwy 190 Ditch BL	0		0.0	
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.75		0.5	
18	Hwy 434/190 Ditch BL	0		0.0	
19	Hwy 434/190 Ditch BL to BL06	0.75		0.5	
20	BL06 to confluence with BBB	1		2.0	
21	BB03 to Hwy 434/I-12 ditch BBB	0.25		0.5	
22	Hwy 434/I-12 Ditch BBB	0		0.0	
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0.5		1.0	
24	Folger Ditch	0		0.0	
25	Folger Ditch to BB02	0.75		2.0	
26	BB02 to Berry Todd Rd Ditch	1		2.5	
27	Berry Todd Rd Ditch	0		0.0	
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	1		3.5	
29	Hwy 190 Ditch BBB	0		0.0	
30	Hwy 190 Ditch BBB to BB01	1		5.5	
31	BB01 to Confluence With Bayou Lacombe	1		7.5	
32	Big Branch Bayou to BL07	1		3.0	
33	BL07 to confluence w/ Cypress Bayou	1		4.0	
34	CB03 to Hwy 190 ditch CB	0.5		1.0	
35	Hwy 190 Ditch CB	0		0.0	
36	Hwy 190 Ditch CB to CB02	0.75		3.5	
37	CB02 to CB01	1		5.5	
38	CB01 to confluence w/ Bayou Lacombe	1		7.5	
39	Cypress Bayou to BL08	1		5.0	
40	BL08 to BL09	1		6.0	
41	BL09 to Lake Pontchartrain	1		7.5	

DATA TYPE 11 - INITIAL CONDITIONS								
Reach	ID	Name	Temp, deg C	Sal, ppt	DO, mg/l	Data Source	Chlorophyll a	Data Source
1	BL	BL01 TO Hwy 36 Ditch BL	20.85	0.01	5.23	BL01 cont mont	0.0	BL01
2	D1	Hwy 36 Ditch BL	20.85	0.01	5.23	BL01 cont mont	0.0	No data available so BPJ.
3	BL	Hwy 36 Ditch BL to BL02	20.85	0.01	5.23	BL01 cont mont	0.0	BL01
4	BL	BL02 to BL03	21.28	0.00	7.76	BL02 cont mont	0.0	BL02
5	BL	BL03 to SNG Ditch	22.03	0.00	8.27	BL03 cont mont	0	BL03
6	D2	SNG Ditch	22.03	0.0	8.27	BL03 cont mont	0.0	No data available so BPJ.
7	BL	SNG Ditch to Hwy 434/I-12 Ditch BL	22.03	0.00	8.27	BL03 cont mont	0	BL03
8	D3	Hwy 434/I-12 Ditch BL	22.03	0.0	8.27	BL03 cont mont	0.0	No data available so BPJ.
9	BL	Hwy 434/I-12 Ditch BL to BL04	22.03	0.00	8.27	BL03 cont mont	0	BL03
10	BL	BL04 to Keller Barn Ditch	22.64	0.02	7.86	BL04 cont mont	0	BL04
11	D4	Keller Barn Ditch	22.64	0.02	7.86	BL04 cont mont	0.0	No data available so BPJ.
12	BL	Keller Barn Ditch To Beau Village Ditch	22.64	0.02	7.86	BL04 cont mont	0	BL04
13	D5	Beau Village Ditch	22.64	0.02	7.86	BL04 cont mont	0.0	No data available so BPJ.
14	BL	Beau Village Ditch to BL05	22.64	0.02	7.86	BL04 cont mont	0.0	BL04
15	BL	BL05 to Hwy 190 Ditch BL	23.12	0.36	3.92	BL05 cont mont	10.6	BL05
16	D6	Hwy 190 Ditch BL	23.12	0.36	3.92	BL05 cont mont	0.0	No data available so BPJ.
17	BL	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	23.12	0.36	3.92	BL05 cont mont	10.6	BL05
18	D7	Hwy 434/190 Ditch BL	23.12	0.36	3.92	BL05 cont mont	0.0	No data available so BPJ.
19	BL	Hwy 434/190 Ditch BL to BL06	23.12	0.36	3.92	BL05 cont mont	10.6	BL05
20	BL	BL06 to confluence with BBB	25.47	4.78	2.42	BL06 cont mont except for DO which is from insitu	11.3	BL06
21	BB	BB03 to Hwy 434/I-12 ditch BBB	21.66	0	2.72	BB03 cont mont	2.6	BB03 lab data
22	D8	Hwy 434/I-12 Ditch BBB	21.66	0.0	2.72	BB03 cont mont	0.0	No data available so BPJ.
23	BB	Hwy 434/I-12 Ditch BBB to Folger Ditch	21.66	0	2.72	BB03 cont mont	2.6	BB03 lab data
24	D9	Folger Ditch	21.66	0.0	2.72	BB03 cont mont	0.0	No data available so BPJ.
25	BB	Folger Ditch to BB02	21.66	0	2.72	BB03 cont mont	2.6	BB03 lab data
26	BB	BB02 to Berry Todd Rd Ditch	23.10	0.35	1.58	BB02 cont mont	14.4	BB02 lab data
27	DA	Berry Todd Rd Ditch	23.10	0.35	1.58	BB02 cont mont	0.0	No data available so BPJ.
28	BB	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	23.10	0.35	1.58	BB02 cont mont	14.4	BB02 lab data
29	DB	Hwy 190 Ditch BBB	23.10	0.35	1.58	BB02 cont mont	0.0	No data available so BPJ.
30	BB	Hwy 190 Ditch BBB to BB01	23.10	0.35	1.58	BB02 cont mont	14.4	BB02 lab data
31	BB	BB01 to Confluence With Bayou Lacombe	25.83	4.19	1.73	BB01 cont mont	26.2	BB01 lab data
32	BL	Big Branch Bayou to BL07	25.85	4.08	4.03	BL07 cont mont	20.2	BL07 lab data
33	BL	BL07 to confluence w/ Cypress Bayou	25.85	4.08	4.03	BL07 cont mont	20.2	BL07 lab data
34	CB	CB03 to Hwy 190 ditch CB	23.25	0.14	1.53	CB03 insitu	24.6	CB03 lab data
35	DC	Hwy 190 Ditch CB	23.25	0.14	1.53	CB03 insitu	0.0	No data available so BPJ.
36	CB	Hwy 190 Ditch CB to CB02	23.25	0.14	1.53	CB03 insitu	24.6	CB03 lab data
37	CB	CB02 to CB01	24.84	3.82	0.99	CB02 insitu	22.6	Average of CB03 and CB01
38	CB	CB01 to confluence w/ Bayou Lacombe	25.27	5.34	5.35	CB01 insitu	20.6	CB01 lab data
39	BL	Cypress Bayou to BL08	25.49	5.26	5.60	BL08 cont mont	17.2	BL08 lab data
40	BL	BL08 to BL09	25.49	5.26	5.60	BL08 cont mont	17.2	BL08 lab data
41	BL	BL09 to Lake Pontchartrain	24.97	7.05	6.19	BL09 cont mont	11.7	BL09 lab data

			DATA TYPE 12 - REAERATION, SEDIMENT				DATA TYPE 12 -		DATA TYPE 12 -	
REACH	ID	NAME	K_2 OPT	Data Source	BKGRND SOD, $gmO_2/m^2/day$ at 20 deg C	Data Source	Aerobic BOD1 Decay Rate (1/day)	Data Source	BOD1 SETT RATE (1/day)	Data Source
1	BL	BL01 TO Hwy 36 Ditch BL	11	Texas Equation	0.00	CALIBRATION	0.034	BL01 lab data	0.05	Calibration--For all reaches except generic ditches
2	D1	Hwy 36 Ditch BL	15	Louisiana Equation	0.50	Generic Ditch	0.08	Generic Ditch	0.05	Generic Ditch
3	BL	Hwy 36 Ditch BL to BL02	11	Texas Equation	0.25	CALIBRATION	0.034	BL01 lab data	0.05	
4	BL	BL02 to BL03	11	Texas Equation	0.25	CALIBRATION	0.031	BL02 lab data	0.05	
5	BL	BL03 to SNG Ditch	11	Texas Equation	1.75	CALIBRATION	0.038	BL03 lab data	0.05	
6	D2	SNG Ditch	15	Louisiana Equation	0.50	Generic Ditch	0.08	Generic Ditch	0.05	Generic Ditch
7	BL	SNG Ditch to Hwy 434/I-12 Ditch BL	11	Texas Equation	1.75	CALIBRATION	0.038	BL03 lab data	0.05	
8	D3	Hwy 434/I-12 Ditch BL	15	Louisiana Equation	0.50	Generic Ditch	0.08	Generic Ditch	0.05	Generic Ditch
9	BL	Hwy 434/I-12 Ditch BL to BL04	11	Texas Equation	1.75	CALIBRATION	0.038	BL03 lab data	0.05	
10	BL	BL04 to Keller Barn Ditch	11	Texas Equation	4.50	CALIBRATION	0.029	BL04 lab data	0.05	
11	D4	Keller Barn Ditch	15	Louisiana Equation	0.50	Generic Ditch	0.08	Generic Ditch	0.05	Generic Ditch
12	BL	Keller Barn Ditch To Beau Village Ditch	11	Texas Equation	4.50	CALIBRATION	0.029	BL04 lab data	0.05	
13	D5	Beau Village Ditch	15	Louisiana Equation	0.50	Generic Ditch	0.08	Generic Ditch	0.05	Generic Ditch
14	BL	Beau Village Ditch to BL05	11	Texas Equation	4.50	CALIBRATION	0.029	BL04 lab data	0.05	
15	BL	BL05 to Hwy 190 Ditch BL	3	O'Connor-Dobbins	3.00	CALIBRATION	0.045	BL05 lab data	0.05	
16	D6	Hwy 190 Ditch BL	15	Louisiana Equation	0.50	Generic Ditch	0.08	Generic Ditch	0.05	Generic Ditch
17	BL	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	3	O'Connor-Dobbins	3.00	CALIBRATION	0.045	BL05 lab data	0.05	
18	D7	Hwy 434/190 Ditch BL	15	Louisiana Equation	0.50	Generic Ditch	0.08	Generic Ditch	0.05	Generic Ditch
19	BL	Hwy 434/190 Ditch BL to BL06	3	O'Connor-Dobbins	3.00	CALIBRATION	0.045	BL05 lab data	0.05	
20	BL	BL06 to confluence with BBB	3	O'Connor-Dobbins	3.50	CALIBRATION	0.041	BL06 lab data	0.05	
21	BB	BB03 to Hwy 434/I-12 ditch BBB	11	Texas Equation	2.00	CALIBRATION	0.07	BB03 lab data (due to graphing error in spreadsheet, this is based on values in CB and BBB)	0.05	
22	D8	Hwy 434/I-12 Ditch BBB	15	Louisiana Equation	0.50	Generic Ditch	0.08	Generic Ditch	0.05	Generic Ditch
23	BB	Hwy 434/I-12 Ditch BBB to Folger Ditch	11	Texas Equation	2.00	CALIBRATION	0.07	BB03 lab data (due to graphing error in spreadsheet, this is based on values in CB and BBB)	0.05	
24	D9	Folger Ditch	15	Louisiana Equation	0.50	Generic Ditch	0.08	Generic Ditch	0.05	Generic Ditch
25	BB	Folger Ditch to BB02	11	Texas Equation	6.00	CALIBRATION	0.07	BB03 lab data (due to graphing error in spreadsheet, this is based on values in CB and BBB)	0.05	
26	BB	BB02 to Berry Todd Rd Ditch	3	O'Connor-Dobbins	7.00	CALIBRATION	0.053	BB02 lab data	0.05	
27	DA	Berry Todd Rd Ditch	15	Louisiana Equation	0.50	Generic Ditch	0.08	Generic Ditch	0.05	Generic Ditch
28	BB	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	3	O'Connor-Dobbins	7.00	CALIBRATION	0.053	BB02 lab data	0.05	
29	DB	Hwy 190 Ditch BBB	15	Louisiana Equation	0.50	Generic Ditch	0.08	Generic Ditch	0.05	Generic Ditch
30	BB	Hwy 190 Ditch BBB to BB01	3	O'Connor-Dobbins	7.00	CALIBRATION	0.053	BB02 lab data	0.05	
31	BB	BB01 to Confluence With Bayou Lacombe	3	O'Connor-Dobbins	7.00	CALIBRATION	0.049	BB01 lab data	0.05	
32	BL	Big Branch Bayou to BL07	3	O'Connor-Dobbins	3.50	CALIBRATION	0.048	BL07 lab	0.05	
33	BL	BL07 to confluence w/ Cypress Bayou	3	O'Connor-Dobbins	1.00	CALIBRATION	0.048	BL07 lab	0.05	
34	CB	CB03 to Hwy 190 ditch CB	11	Texas Equation	6.00	CALIBRATION	0.069	CB03 lab data	0.05	
35	DC	Hwy 190 Ditch CB	15	Louisiana Equation	0.50	Generic Ditch	0.08	Generic Ditch	0.05	Generic Ditch
36	CB	Hwy 190 Ditch CB to CB02	11	Texas Equation	6.00	CALIBRATION	0.069	CB03 lab data	0.05	
37	CB	CB02 to CB01	3	O'Connor-Dobbins	6.00	CALIBRATION	0.052	CB02 lab data	0.05	
38	CB	CB01 to confluence w/ Bayou Lacombe	3	O'Connor-Dobbins	0.00	CALIBRATION	0.054	CB01 lab data	0.05	
39	BL	Cypress Bayou to BL08	3	O'Connor-Dobbins	1.00	CALIBRATION	0.051	BL08 lab data	0.05	
40	BL	BL08 to BL09	3	O'Connor-Dobbins	1.50	CALIBRATION	0.051	BL08 lab data	0.05	
41	BL	BL09 to Lake Pontchartrain	3	O'Connor-Dobbins	0.00	CALIBRATION	0.063	BL09 lab data	0.05	

DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS					
Reach	**Name**	**NBOD decay rate, 1/day**	**Data Source**	**NBOD settling rate, 1/day**	**Data Source**
1	BL01 TO Hwy 36 Ditch BL	0.005	BL01 lab	0.05	Calibration--for all reaches except ditches
2	Hwy 36 Ditch BL	0.030	Generic Ditch	0.05	Generic Ditch
3	Hwy 36 Ditch BL to BL02	0.005	BL01 lab	0.05	
4	BL02 to BL03	0.595	BL02 lab	0.05	
5	BL03 to SNG Ditch	0.041	BL03 lab	0.05	
6	SNG Ditch	0.030	Generic Ditch	0.05	Generic Ditch
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0.041	BL03 lab	0.05	
8	Hwy 434/I-12 Ditch BL	0.030	Generic Ditch	0.05	Generic Ditch
9	Hwy 434/I-12 Ditch BL to BL04	0.041	BL03 lab	0.05	
10	BL04 to Keller Barn Ditch	0.070	BL04 lab	0.05	
11	Keller Barn Ditch	0.030	Generic Ditch	0.05	Generic Ditch
12	Keller Barn Ditch To Beau Village Ditch	0.070	BL04 lab	0.05	
13	Beau Village Ditch	0.03	Generic Ditch	0.05	Generic Ditch
14	Beau Village Ditch to BL05	0.07	BL04 lab	0.05	
15	BL05 to Hwy 190 Ditch BL	0.052	BL05 lab	0.05	
16	Hwy 190 Ditch BL	0.03	Generic Ditch	0.05	Generic Ditch
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.052	BL05 lab	0.05	
18	Hwy 434/190 Ditch BL	0.03	Generic Ditch	0.05	Generic Ditch
19	Hwy 434/190 Ditch BL to BL06	0.052	BL05 lab	0.05	
20	BL06 to confluence with BBB	0.089	BL06 lab	0.05	
21	BB03 to Hwy 434/I-12 ditch BBB	0.595	BB03 lab	0.05	
22	Hwy 434/I-12 Ditch BBB	0.03	Generic Ditch	0.05	Generic Ditch
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0.595	BB03 lab	0.05	
24	Folger Ditch	0.03	Generic Ditch	0.05	Generic Ditch
25	Folger Ditch to BB02	0.595	BB03 lab	0.05	
26	BB02 to Berry Todd Rd Ditch	0.106	BB02 lab	0.05	
27	Berry Todd Rd Ditch	0.03	Generic Ditch	0.05	Generic Ditch
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	0.106	BB02 lab	0.05	
29	Hwy 190 Ditch BBB	0.03	Generic Ditch	0.05	Generic Ditch
30	Hwy 190 Ditch BBB to BB01	0.106	BB02 lab	0.05	
31	BB01 to Confluence With Bayou Lacombe	0.042	BB01 lab data	0.05	
32	Big Branch Bayou to BL07	0.129	BL07 lab	0.05	
33	BL07 to confluence w/ Cypress Bayou	0.129	BL07 lab	0.05	
34	CB03 to Hwy 190 ditch CB	0.136	CB03 lab	0.05	
35	Hwy 190 Ditch CB	0.03	Generic Ditch	0.05	Generic Ditch
36	Hwy 190 Ditch CB to CB02	0.136	CB03 lab	0.05	
37	CB02 to CB01	0.054	CB02 lab	0.05	
38	CB01 to confluence w/ Bayou Lacombe	0.08	CB01 lab	0.05	
39	Cypress Bayou to BL08	0.064	BL08 lab	0.05	
40	BL08 to BL09	0.064	BL08 lab	0.05	
41	BL09 to Lake Pontchartrain	0.101	BL09 lab	0.05	

DATA TYPE 16 - INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVE								
Reach	Reach Name	Incr. Inflow, m^3 per sec	Data Source	Temp, deg C	Sal., ppt	Cons. Mat I=Chloride mg/L	Cons. Mat II=Cond µS/cm	Data Source
1	BL01 TO Hwy 36 Ditch BL	0.179959	Flow balance	20.85	0.01	5.6	51.6	BL01 CONT MON AND LAB DATA
2	Hwy 36 Ditch BL	0.000000						
3	Hwy 36 Ditch BL to BL02	0.000000						
4	BL02 to BL03	0.041881	Flow balance	21.28	0.00	5.5	56	BL02 CONT MON AND LAB DATA
5	BL03 to SNG Ditch	0.043261	Flow balance	22.03	0.00	5.7	58.04	BL03 CONT MON AND LAB DATA
6	SNG Ditch	0.000000						
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0.000000						
8	Hwy 434/I-12 Ditch BL	0.000000						
9	Hwy 434/I-12 Ditch BL to BL04	0.000000						
10	BL04 to Keller Barn Ditch	0.000000						
11	Keller Barn Ditch	0.000000						
12	Keller Barn Ditch To Beau Village Ditch	0.000000						
13	Beau Village Ditch	0.000000						
14	Beau Village Ditch to BL05	0.000000						
15	BL05 to Hwy 190 Ditch BL	0.000000						
16	Hwy 190 Ditch BL	0.000000						
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.000000						
18	Hwy 434/190 Ditch BL	0.000000						
19	Hwy 434/190 Ditch BL to BL06	0.000000						
20	BL06 to confluence with BBB	0.000000						
21	BB03 to Hwy 434/I-12 ditch BBB	0.147505	Flow balance	21.66	0.00	10.4	95.61	BB03 CONT MON AND LAB DATA
22	Hwy 434/I-12 Ditch BBB	0.000000						
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0.000000						
24	Folger Ditch	0.000000						
25	Folger Ditch to BB02	0.000000						
26	BB02 to Berry Todd Rd Ditch	0.000000						
27	Berry Todd Rd Ditch	0.000000						
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	0.000000						
29	Hwy 190 Ditch BBB	0.000000						
30	Hwy 190 Ditch BBB to BB01	0.000000						
31	BB01 to Confluence With Bayou Lacombe	0.000000						
32	Big Branch Bayou to BL07	0.000000						
33	BL07 to confluence w/ Cypress Bayou	0.000000						
34	CB03 to Hwy 190 ditch CB	0.188823	Flow balance	23.25	0.14	22.5	286.9	CB03 INSITU AND LAB DATA
35	Hwy 190 Ditch CB	0.000000						
36	Hwy 190 Ditch CB to CB02	0.000000						
37	CB02 to CB01	0.000000						
38	CB01 to confluence w/ Bayou Lacombe	0.000000						
39	Cypress Bayou to BL08	0.000000						
40	BL08 to BL09	0.000000						
41	BL09 to Lake Pontchartrain	0.000000						

DATA TYPE 17 - INCREMENTAL DATA FOR DO, BOD, AND NITROGEN						
Reach	Reach Name	DO, mg/l	Data Source	UCBOD1, mg/l	NBOD, mg/L	Data Source
1	BL01 TO Hwy 36 Ditch BL	5.23	BL01-CONT MON	1.53	0.0	BL01 LAB DATA
2	Hwy 36 Ditch BL					
3	Hwy 36 Ditch BL to BL02					
4	BL02 to BL03	7.76	BL02 - CONT MON	1.318	0.023	BL02 LAB DATA
5	BL03 to SNG Ditch	8.27	BL03 - CONT MON	2.393	0.388	BL03 LAB DATA
6	SNG Ditch					
7	SNG Ditch to Hwy 434/I-12 Ditch BL					
8	Hwy 434/I-12 Ditch BL					
9	Hwy 434/I-12 Ditch BL to BL04					
10	BL04 to Keller Barn Ditch					
11	Keller Barn Ditch					
12	Keller Barn Ditch To Beau Village Ditch					
13	Beau Village Ditch					
14	Beau Village Ditch to BL05					
15	BL05 to Hwy 190 Ditch BL					
16	Hwy 190 Ditch BL					
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL					
18	Hwy 434/190 Ditch BL					
19	Hwy 434/190 Ditch BL to BL06					
20	BL06 to confluence with BBB					
21	BB03 to Hwy 434/I-12 ditch BBB	2.72	BB03 - CONT MON	2.684	0.046	BB03 LAB DATA (Due to spreadsheet graphing error, UCBOD1 is the sum of CBOD1 and CBOD2)
22	Hwy 434/I-12 Ditch BBB					
23	Hwy 434/I-12 Ditch BBB to Folger Ditch					
24	Folger Ditch					
25	Folger Ditch to BB02					
26	BB02 to Berry Todd Rd Ditch					
27	Berry Todd Rd Ditch					
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB					
29	Hwy 190 Ditch BBB					
30	Hwy 190 Ditch BBB to BB01					
31	BB01 to Confluence With Bayou Lacombe					
32	Big Branch Bayou to BL07					
33	BL07 to confluence w/ Cypress Bayou					
34	CB03 to Hwy 190 ditch CB	1.53	CB03 - IN SITU	16.385	2.553	CB03 LAB DATA
35	Hwy 190 Ditch CB					
36	Hwy 190 Ditch CB to CB02					
37	CB02 to CB01					
38	CB01 to confluence w/ Bayou Lacombe					
39	Cypress Bayou to BL08					
40	BL08 to BL09					
41	BL09 to Lake Pontchartrain					

DATA TYPE 19 - NONPOINT SOURCES					
Reach	Reach Name	Length of Reach, km	UCBOD1, kg/day	NBOD, kg/day	Data Source
1	BL01 TO Hwy 36 Ditch BL	0.1	0.000	0.000	Calibration--all reaches except ditches. Ditches--varied until UCBOD1=2.2 mg/L and NBOD=1.0 mg/L in the water column. Based on procedure done for Bayous Bonfouca/Liberty.
2	Hwy 36 Ditch BL	4.2	0.063	0.017	
3	Hwy 36 Ditch BL to BL02	5.7	0.000	0.000	
4	BL02 to BL03	4.9	25.000	5.000	
5	BL03 to SNG Ditch	0.9	0.000	0.000	
6	SNG Ditch	2.1	0.032	0.009	
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0.3	0.000	0.000	
8	Hwy 434/I-12 Ditch BL	3.0	0.046	0.013	
9	Hwy 434/I-12 Ditch BL to BL04	0.2	0.000	0.000	
10	BL04 to Keller Barn Ditch	1.6	50.000	26.000	
11	Keller Barn Ditch	0.9	0.014	0.004	
12	Keller Barn Ditch To Beau Village Ditch	2.7	85.000	26.000	
13	Beau Village Ditch	3.0	0.047	0.013	
14	Beau Village Ditch to BL05	1.4	50.000	26.000	
15	BL05 to Hwy 190 Ditch BL	2.1	250.000	90.000	
16	Hwy 190 Ditch BL	2.2	0.035	0.010	
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.1	0.000	0.000	
18	Hwy 434/190 Ditch BL	2.2	0.035	0.010	
19	Hwy 434/190 Ditch BL to BL06	0.1	0.000	0.000	
20	BL06 to confluence with BBB	2.1	150.000	0.000	
21	BB03 to Hwy 434/I-12 ditch BBB	0.1	0.000	0.000	
22	Hwy 434/I-12 Ditch BBB	6.5	0.100	0.028	
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0.2	0.000	0.000	
24	Folger Ditch	0.4	0.005	0.002	
25	Folger Ditch to BB02	2.9	25.000	0.000	
26	BB02 to Berry Todd Rd Ditch	0.1	0.000	0.000	
27	Berry Todd Rd Ditch	2.0	0.033	0.009	
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	1.1	35.000	0.000	
29	Hwy 190 Ditch BBB	1.3	0.020	0.006	
30	Hwy 190 Ditch BBB to BB01	0.5	35.000	0.000	
31	BB01 to Confluence With Bayou Lacombe	0.3	390.000	200.000	
32	Big Branch Bayou to BL07	0.1	0.000	0.000	
33	BL07 to confluence w/ Cypress Bayou	2.4	200.000	0.000	
34	CB03 to Hwy 190 ditch CB	0.3	0.000	0.000	
35	Hwy 190 Ditch CB	1.6	0.025	0.007	
36	Hwy 190 Ditch CB to CB02	1.7	65.000	0.000	
37	CB02 to CB01	2.7	150.000	0.000	
38	CB01 to confluence w/ Bayou Lacombe	0.2	50.000	0.000	
39	Cypress Bayou to BL08	0.2	0.000	0.000	
40	BL08 to BL09	5.8	1500.000	500.000	
41	BL09 to Lake Pontchartrain	0.3	200.000	0.000	

DATA TYPE 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES							
Headwater Name	**Element No.**	**Headwater Flow, cms**	**Temp, deg C**	**Salinity, ppt**	**Conservative Material I (chloride, mg/L)**	**Conservative Material II (conductivity, µS/cm)**	**Data Source**
Bayou Lacombe	1	0.092	20.85	0.01	5.6	51.6	BL01
Ditch #1: Hwy 36 ditch BL	11	0.00028	20.85	0.01	5.6	51.6	BL01
Ditch #2: SNG ditch	168	0.00028	20.85	0.01	5.6	51.6	BL01
Ditch #3: Hwy 434/I-12 BL	192	0.00028	20.85	0.01	5.6	51.6	BL01
Ditch #4: Keller Barn ditch	240	0.00028	20.85	0.01	5.6	51.6	BL01
Ditch #5: Beau Village ditch	276	0.00028	20.85	0.01	5.6	51.6	BL01
Ditch #6: Hwy 190 ditch BL	341	0.00028	20.85	0.01	5.6	51.6	BL01
Ditch #7: Hwy 434/190 ditch BL	373	0.00028	20.85	0.01	5.6	51.6	BL01
Big Branch Bayou	426	0.009	21.66	0	10.4	95.61	BB03
Ditch #8: Hwy 434/I-12 ditch BBB	436	0.00028	21.66	0	10.4	95.61	BB03
Ditch #9: Folger ditch	521	0.00028	21.66	0	10.4	95.61	BB03
Ditch A: Berry Todd Rd ditch	564	0.00028	21.66	0	10.4	95.61	BB03
Ditch B: Hwy 190 ditch BBB	595	0.00028	21.66	0	10.4	95.61	BB03
Cypress Bayou	650	0.023	23.25	0.14	22.5	286.9	CB03
Ditch C: Hwy 190 ditch CB	653	0.00028	23.25	0.14	22.5	286.9	CB03

DATA TYPE 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN				
Headwater Name	**Dissolved Oxygen, mg/L**	**UCBOD1, mg/l**	**UNBOD mg/L**	**Data Source**
Bayou Lacombe	5.23	1.53	0.0	BL01 cont mont and lab data
Ditch #1: Hwy 36 ditch BL	5.0	2.2	1.0	DO: Criterion for subsegment 040901. UCBOD1 and UNBOD: Lab data from a previous TMDL for Bayou Bonfouca/Liberty--measured in Bayou Vincent downstream of the groundwater inflow.
Ditch #2: SNG ditch	5.0	2.2	1.0	DO: Criterion for subsegment 040901. UCBOD1 and UNBOD: Lab data from a previous TMDL for Bayou Bonfouca/Liberty--measured in Bayou Vincent downstream of the groundwater inflow.
Ditch #3: Hwy 434/I-12 BL	5.0	2.2	1.0	DO: Criterion for subsegment 040901. UCBOD1 and UNBOD: Lab data from a previous TMDL for Bayou Bonfouca/Liberty--measured in Bayou Vincent downstream of the groundwater inflow.
Ditch #4: Keller Barn ditch	5.0	2.2	1.0	DO: Criterion for subsegment 040901. UCBOD1 and UNBOD: Lab data from a previous TMDL for Bayou Bonfouca/Liberty--measured in Bayou Vincent downstream of the groundwater inflow.
Ditch #5: Beau Village ditch	5.0	2.2	1.0	DO: Criterion for subsegment 040901. UCBOD1 and UNBOD: Lab data from a previous TMDL for Bayou Bonfouca/Liberty--measured in Bayou Vincent downstream of the groundwater inflow.
Ditch #6: Hwy 190 ditch BL	4.0	2.2	1.0	DO: Criterion for subsegment 040902. UCBOD1 and UNBOD: Lab data from a previous TMDL for Bayou Bonfouca/Liberty--measured in Bayou Vincent downstream of the groundwater inflow.
Ditch #7: Hwy 434/190 ditch BL	4.0	2.2	1.0	DO: Criterion for subsegment 040902. UCBOD1 and UNBOD: Lab data from a previous TMDL for Bayou Bonfouca/Liberty--measured in Bayou Vincent downstream of the groundwater inflow.
Big Branch Bayou	2.72	2.684	0.046	DO & UNBOD: BB03 cont mont and lab data. UCBOD1: Due to spreadsheet graphing error, UCBOD1 is the sum of CBOD1 and CBOD2 from BB03 lab data.
Ditch #8: Hwy 434/I-12 ditch BBB	4.0	2.2	1.0	DO: Criterion for subsegment 040902. UCBOD1 and UNBOD: Lab data from a previous TMDL for Bayou Bonfouca/Liberty--measured in Bayou Vincent downstream of the groundwater inflow.
Ditch #9: Folger ditch	4.0	2.2	1.0	DO: Criterion for subsegment 040902. UCBOD1 and UNBOD: Lab data from a previous TMDL for Bayou Bonfouca/Liberty--measured in Bayou Vincent downstream of the groundwater inflow.
Ditch A: Berry Todd Rd ditch	4.0	2.2	1.0	DO: Criterion for subsegment 040902. UCBOD1 and UNBOD: Lab data from a previous TMDL for Bayou Bonfouca/Liberty--measured in Bayou Vincent downstream of the groundwater inflow.
Ditch B: Hwy 190 ditch BBB	4.0	2.2	1.0	DO: Criterion for subsegment 040902. UCBOD1 and UNBOD: Lab data from a previous TMDL for Bayou Bonfouca/Liberty--measured in Bayou Vincent downstream of the groundwater inflow.
Cypress Bayou	1.53	16.385	2.553	CB03 insitu and lab data
Ditch C: Hwy 190 ditch CB	4.0	2.2	1.0	DO: Criterion for subsegment 040902. UCBOD1 and UNBOD: Lab data from a previous TMDL for Bayou Bonfouca/Liberty--measured in Bayou Vincent downstream of the groundwater inflow.

DATA TYPE 23 - JUNCTION DATA		
Junction Name	**Computational element number of the element immediately downstream of the junction**	**Computational element number of the element immediately upstream of the junction**
Hwy 36 ditch BL confluence with Bayou Lacombe	53	10
Ditch #2-SNG Ditch confluence with Bayou Lacombe	189	167
Ditch #3-Hwy 434/I-12 Ditch BL confluence with Bayou Lacombe	222	191
Ditch #4-Keller Barn Ditch confluence with Bayou Lacombe	249	239
Ditch #5-Beau Village Ditch confluence with Bayou Lacombe	306	275
Ditch #6-Hwy 190 Ditch BL confluence with Bayou Lacombe	363	340
Ditch #7-Hwy 434/190 Ditch BL confluence with Bayou Lacombe	395	372
Ditch #8-Hwy 434/I-12 Ditch BBB confluence with Big Branch Bayou	501	435
Ditch #9-Folger Ditch confluence with Big Branch Bayou	525	520
Ditch A-Berry Todd Rd Ditch confluence with Big Branch Bayou	584	563
Ditch B-Hwy 190 Ditch BBB confluence with Big Branch Bayou	608	594
Big Branch Bayou confluence with Bayou Lacombe	616	425
Ditch C-Hwy 190 Ditch CB confluence with Cypress Bayou	669	652
Cypress Bayou confluence with Bayou Lacombe	715	649

DATA TYPE 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES									
Wasteload / Withdrawal Name	EL #	Flow, cms	Data Source	Temperature, deg C	Data Source	Salinity, ppt	Conservative Material I (chloride, mg/L)	Conservative Material II (conductivity, µS/cm)	Data Source
AI 138040, Animal Services Campus - St. Tammany Parish Government	12	0.0001753	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 120304, St Tammany Speedway	40	0.0001052	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 94746, Southern Natural Gas Co - Lacombe Compressor Station	169	0.0001095	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 155402, Axonic, LLC, Neurology Clinic	196	0.0000438	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 1 Hwy. 434/I-12 ditch BL (AIs 122894, 149786, 41574, 116987, 94618, 118350, 86020, 43188, 102362)	206	0.000223	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 2 Hwy. 434/I-12 ditch BL (AIs 151676, 128325, 52076)	208	0.0004582	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Unnamed Tributary	223	0.004389	UNT01	21.85	UNT01	0.02	7.4	62.6	UNT01
AI 119164, St Tammany Parish Government - Keller Barn	241	0.0000061	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157591, Carmelite Spirituality Center - Sisters of Mt Carmel	272	0.0000219	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 33916, WTSO Utilities, Beau Village Subdivision	277	0.0010515	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 93344, US Fish & Wildlife Service - Southeast Louisiana Refuges	325	0.0000491	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 43023, Regina Coeli Child Development Center - Lacombe/Mandeville Head Start	342	0.0000854	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 40796, Janie Brown's Casual Restaurant	344	0.0000767	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 1 on Hwy. 190 ditch BL: AIs 157721, 154892	349	0.0000166	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 2 on Hwy. 190 ditch BL: AIs 157850, 99609, 157435	350	0.0003395	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 3 on Hwy. 190 ditch BL: AIs 89241, 84112, 43400	352	0.0006432	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 4 on Hwy. 190 ditch BL: AIs 6470, 157670, 130003, 149801	353	0.000039	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities

DATA TYPE 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES									
Wasteload / Withdrawal Name	EL #	Flow, cms	Data Source	Temperature, deg C	Data Source	Salinity, ppt	Conservative Material I (chloride, mg/L)	Conservative Material II (conductivity, µS/cm)	Data Source
AI 43406, Bayou Lacombe Middle School	354	0.0002015	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 5 on Hwy. 190 ditch BL: AIs 42348, 142046, 157759, 157768, 155069, 75810, 75143, 157523	358	0.0001406	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 6 on Hwy. 190 ditch BL: AIs 33986, 70935, 151841, 122511, 114927, 43087, 162031	360	0.0009637	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 97944, Hwy 434 Mini Storage Inc	374	0.0000009	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157861, Kingdom Hall of Jehovah's Witnesses	390	0.0000329	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 119750, Highway 434 Retail Space	391	0.0000096	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 165334, H2O Systems, Inc., St. Tammany Parish Coroner's Complex	442	0.0000307	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 94173, Southeastern Louisiana Water & Sewer Co.,LLC, Medcath WWTP, LA Medical Center & Heart Hospital	464	0.0026288	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 114220, Folger Coffee Co - Lacombe Distribution Center	522	0.0001753	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157509, Feather & Fin Ranch	565	0.0024535	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 156133, Python Corporation - Office/Warehouse	596	0.0000053	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 101375, OW Inc - Bayou Mini Storage	602	0.0000009	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 31079, Brier Lake Utilities Inc - Brier Lake Estates	651	0.0015334	survey data	23.06	survey data	0.26	23.5	516.3	survey data
AI 127495, A to Z Preschool LLC	654	0.0000745	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 123821, Kevin J. Smith Construction Company - Smith Office Building	655	0.0000088	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157767, St Tammany Fire Protection District 3 - Fire Station 32	660	0.0000009	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157892, Mottie McClary/Southern Motor Carrier Safety Consultants	661	0.0000018	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 119584, Tiller of the Land	663	0.0000044	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 41881, ICO Corp	674	0.0000035	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 117076, LA Pines Ranch Inc	677	0.000219	Permit	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities

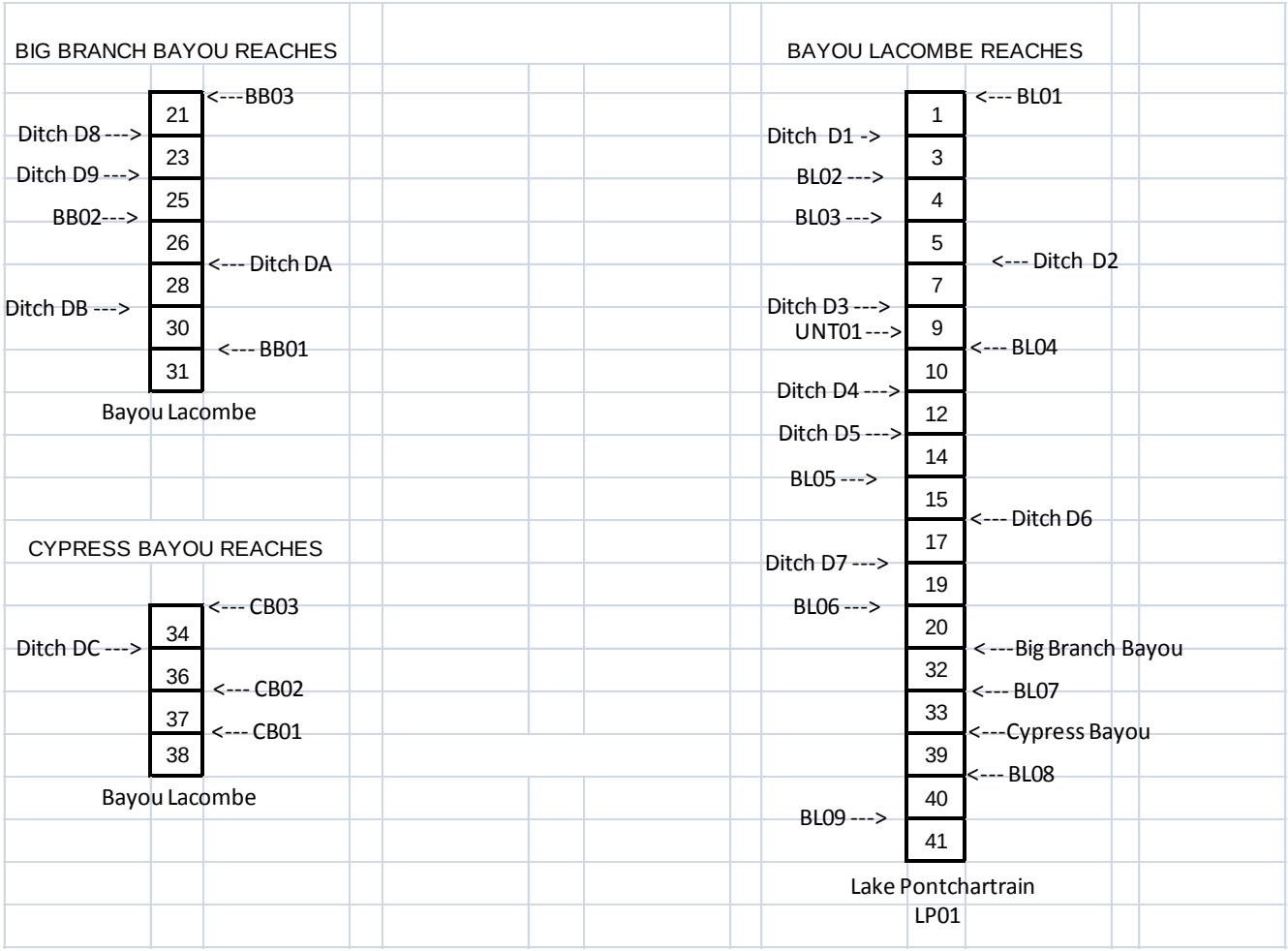
DATA TYPE 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN					
Wasteload / Withdrawal Name	**Element #**	**DO, mg/l**	**UCBOD1, mg/l**	**UNBOD, mg/l**	**Data Source**
AI 138040, Animal Services Campus - St. Tammany Parish Government	12	2	69	64.5	Permit and LA standard practice
AI 120304, St Tammany Speedway	40	2	103.5	64.5	Permit and LA standard practice
AI 94746, Southern Natural Gas Co - Lacombe Compressor Station	169	2	103.5	64.5	Permit and LA standard practice
AI 155402, Axonic, LLC, Neurology Clinic	196	2	103.5	64.5	Permit and LA standard practice
Cluster 1 Hwy. 434/I-12 ditch BL (AIs 122894, 149786, 41574, 116987, 94618, 118350, 86020, 43188, 102362)	206	2	103.5	64.5	Permit and LA standard practice
Cluster 2 Hwy. 434/I-12 ditch BL (AIs 151676, 128325, 52076)	208	2	69	64.5	Permit and LA standard practice
Unnamed Tributary	223	4.24	3.887	0.137	UNT01
AI 119164, St Tammany Parish Government - Keller Barn	241	2	69	64.5	Permit and LA standard practice
AI 157591, Carmelite Spirituality Center - Sisters of Mt Carmel	272	2	103.5	64.5	Permit and LA standard practice
AI 33916, WTSO Utilities, Beau Village Subdivision	277	2	23	43	Permit and LA standard practice
AI 93344, US Fish & Wildlife Service - Southeast Louisiana Refuges	325	2	103.5	64.5	Permit and LA standard practice
AI 43023, Regina Coeli Child Development Center - Lacombe/Mandeville Head Start	342	2	69	64.5	Permit and LA standard practice
AI 40796, Janie Brown's Casual Restaurant	344	2	69	64.5	Permit and LA standard practice
Cluster 1 on Hwy. 190 ditch BL: AIs 157721, 154892	349	2	103.5	64.5	Permit and LA standard practice
Cluster 2 on Hwy. 190 ditch BL: AIs 157850, 99609, 157435	350	2	69	64.5	Permit and LA standard practice
Cluster 3 on Hwy. 190 ditch BL: AIs 89241, 84112, 43400	352	2	69	64.5	Permit and LA standard practice
Cluster 4 on Hwy. 190 ditch BL: AIs 6470, 157670, 130003, 149801	353	2	103.5	64.5	Permit and LA standard practice
AI 43406, Bayou Lacombe Middle School	354	2	23	43	Permit and LA standard practice

DATA TYPE 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN				
Wasteload / Withdrawal Name	**Element #**	**DO, mg/l**	**UCBOD1, mg/l**	**UNBOD, mg/l**
Cluster 5 on Hwy. 190 ditch BL: AIs 42348, 142046, 157759, 157768, 155069, 75810, 75143, 157523	358	2	103.5	64.5
Cluster 6 on Hwy. 190 ditch BL: AIs 33986, 70935, 151841, 122511, 114927, 43087, 162031	360	2	69	64.5
AI 97944, Hwy 434 Mini Storage Inc	374	2	103.5	64.5
AI 157861, Kingdom Hall of Jehovah's Witnesses	390	2	103.5	64.5
AI 119750, Highway 434 Retail Space	391	2	69	64.5
AI 165334, H2O Systems, Inc., St. Tammany Parish Coroner's Complex	442	2	103.5	64.5
AI 94173, Southeastern Louisiana Water & Sewer Co.,LLC, Medcath WWTP, LA Medical Center & Heart Hospital	464	2	23	43
AI 114220, Folger Coffee Co - Lacombe Distribution Center	522	2	69	64.5
AI 157509, Feather & Fin Ranch	565	2	57.5	86
AI 156133, Python Corporation - Office/Warehouse	596	2	103.5	64.5
AI 101375, OW Inc - Bayou Mini Storage	602	2	103.5	64.5
AI 31079, Brier Lake Utilities Inc - Brier Lake Estates	651	2.39	23	43
AI 127495, A to Z Preschool LLC	654	2	103.5	64.5
AI 123821, Kevin J. Smith Construction Company - Smith Office Building	655	2	103.5	64.5
AI 157767, St Tammany Fire Protection District 3 - Fire Station 32	660	2	103.5	64.5
AI 157892, Mottie McClary/Southern Motor Carrier Safety Consultants	661	2	103.5	64.5
AI 119584, Tiller of the Land	663	2	103.5	64.5
AI 41881, ICO Corp	674	2	103.5	64.5
AI 117076, LA Pines Ranch Inc	677	2	69	64.5

DATA TYPE 27 - LOWER BOUNDARY CONDITIONS Survey Site Name:			
Parameter	**Value**	**Units**	**Data Source**
TEMPERATURE	24.97	deg C	LP01 - CONT MONITOR
SALINITY	7.02	ppt	LP01 - CONT MONITOR
CONSERVATIVE MATERIAL I (chloride)	4128	mg/l	LP01 - LAB DATA
CONSERVATIVE MATERIAL II (conductivity)	12216	umhos/cm	LP01 - CONT MONITOR
DISSOLVED OXYGEN	7.14	mg/l	LP01 - CONT MONITOR
BIOCHEMICAL OXYGEN DEMAND 1	5.012	mg/l	LP01 - LAB DATA
CHLOROPHYLL A	8.3	ug/l	LP01 - LAB DATA
NBOD	1.166	mg/l	LP01 - LAB DATA

Appendix C - Calibration Model Development

Appendix C1 – Vector Diagram


BIG BRANCH BAYOU REACHES
<---BB03
21
Ditch D8 --->
23
Ditch D9 --->
25
BB02--->
26
<--- Ditch DA
28
Ditch DB --->
30
<--- BB01
31
Bayou Lacombe
CYPRESS BAYOU REACHES
<--- CB03
34
Ditch DC --->
36
<--- CB02
37
<--- CB01
38
Bayou Lacombe
BAYOU LACOMBE REACHES
<--- BL01
1
Ditch D1 ->
3
BL02 --->
4
BL03 --->
5
<--- Ditch D2
7
Ditch D3 --->
UNT01 --->
9
<--- BL04
10
Ditch D4 --->
12
Ditch D5 --->
14
BL05 --->
15
<--- Ditch D6
17
Ditch D7 --->
19
BL06 --->
20
< ---Big Branch Bayou
32
<--- BL07
33
<---Cypress Bayou
39
<--- BL08
40
BL09 --->
41
Lake Pontchartrain
LP01

Appendix C2 – Reach Setup

Model reach descriptions and element determinations:

Input data into the blue cells

Bayou Lacombe TMDL

Reach #	Reach description	Reach start (km)	Reach end (km)	Reach increm. (km)	Reach start element	Reach end element
1	Bayou Lacombe: BL01 to Hwy 36 Ditch BL	31	30.9	0.01	1	10
2	Ditch #1: Hwy 36 Ditch BL	4.2	0.0	0.1	11	52
3	Bayou Lacombe: Hwy 36 Ditch BL to BL02	30.9	25.2	0.1	53	109
4	Bayou Lacombe: BL02 to BL03	25.2	20.3	0.1	110	158
5	Bayou Lacombe: BL03 to SNG Ditch	20.3	19.4	0.1	159	167
6	Ditch #2: SNG Ditch	2.1	0.0	0.1	168	188
7	Bayou Lacombe: SNG Ditch to Hwy 434/I-12 Ditch BL	19.4	19.1	0.1	189	191
8	Ditch #3: Hwy 434/I-12 Ditch BL	3.0	0.0	0.1	192	221
9	Bayou Lacombe: Hwy 434/I-12 Ditch BL to BL04	19.1	18.9	0.1	222	223
10	Bayou Lacombe: BL04 to Keller Barn Ditch	18.9	17.3	0.1	224	239
11	Ditch #4: Keller Barn Ditch	0.9	0.0	0.1	240	248
12	Bayou Lacombe: Keller Barn Ditch To Beau Village Ditch	17.3	14.6	0.1	249	275
13	Ditch #5: Beau Village Ditch	3.0	0.0	0.1	276	305
14	Bayou Lacombe: Beau Village Ditch to BL05	14.6	13.2	0.1	306	319
15	Bayou Lacombe: BL05 to Hwy 190 Ditch BL	13.2	11.1	0.1	320	340
16	Ditch #6: Hwy 190 Ditch BL	2.2	0.0	0.1	341	362
17	Bayou Lacombe: Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	11.1	11.0	0.01	363	372
18	Ditch #7: Hwy 434/190 Ditch BL	2.2	0.0	0.1	373	394
19	Bayou Lacombe: Hwy 434/190 Ditch BL to BL06	11.0	10.9	0.01	395	404
20	Bayou Lacombe: BL06 to confluence with BBB	10.9	8.8	0.1	405	425
21	Big Branch Bayou: BB03 to Hwy 434/I-12 ditch BBB	5.2	5.1	0.01	426	435
22	Ditch #8: Hwy 434/I-12 Ditch BBB	6.5	0.0	0.1	436	500
23	Big Branch Bayou: Hwy 434/I-12 Ditch BBB to Folger Ditch	5.1	4.9	0.01	501	520
24	Ditch #9: Folger Ditch	0.4	0.0	0.1	521	524
25	Big Branch Bayou: Folger Ditch to BB02	4.9	2.0	0.1	525	553
26	Big Branch Bayou: BB02 to Berry Todd Rd Ditch	2.0	1.9	0.01	554	563
27	Ditch A: Berry Todd Rd Ditch	2.0	0.0	0.1	564	583
28	Big Branch Bayou: Berry Todd Rd Ditch to Hwy 190 Ditch BBB	1.9	0.8	0.1	584	594
29	Ditch B: Hwy 190 Ditch BBB	1.3	0.0	0.1	595	607
30	Big Branch Bayou: Hwy 190 Ditch BBB to BB01	0.8	0.3	0.1	608	612
31	Big Branch Bayou: BB01 to confluence with Bayou Lacombe	0.3	0.0	0.1	613	615
32	Bayou Lacombe: Big Branch Bayou to BL07	8.8	8.7	0.01	616	625
33	Bayou Lacombe: BL07 to confluence with Cypress Bayou	8.7	6.3	0.1	626	649
34	Cypress Bayou: CB03 to Hwy 190 ditch CB	4.9	4.6	0.1	650	652
35	Ditch C: Hwy 190 Ditch CB	1.6	0.0	0.1	653	668
36	Cypress Bayou: Hwy 190 Ditch CB to CB02	4.6	2.9	0.1	669	685
37	Cypress Bayou: CB02 to CB01	2.9	0.2	0.1	686	712
38	Cypress Bayou: CB01 to confluence with Bayou Lacombe	0.2	0.0	0.1	713	714
39	Bayou Lacombe: Cypress Bayou to BL08	6.3	6.1	0.1	715	716
40	Bayou Lacombe: BL08 to BL09	6.1	0.3	0.1	717	774
41	Bayou Lacombe: BL09 to Lake Pontchartrain	0.3	0.0	0.1	775	777

Facility / Tributary Description and Element # determinations:

Input data into the Yellow highlighted areas

Stream Model Name: ***Bayou Lacombe TMDL***

Facility/tributary description	Reach #	Reach start (km)	Reach end (km)	Reach increm. (km)	Fac./Trib. Location (km)	Reach start element	Fac./Trib. Location (element)
AI 138040, Animal Services Campus - St. Tammany Parish Government	2	4.2	0	0.1	4.1	11	12
AI 120304, St Tammany Speedway	2	4.2	0	0.1	1.3	11	40
AI 94746, Southern Natural Gas Co - Lacombe Compressor Station	6	2.1	0	0.1	2	168	169
AI 155402, Axonic, LLC, Neurology Clinic	8	3	0	0.1	2.6	192	196
Cluster 1 Hwy. 434/I-12 ditch BL (AIs 122894, 149786, 41574, 116987, 94618, 118350, 86020, 43188, 102362)	8	3	0	0.1	1.6	192	206
Cluster 2 Hwy. 434/I-12 ditch BL (AIs 151676, 128325, 52076)	8	3	0	0.1	1.4	192	208
Unnamed Tributary	9	19.1	18.9	0.1	19	222	223
AI 119164, St Tammany Parish Government - Keller Barn	11	0.9	0	0.1	0.8	240	241
AI 157591, Carmelite Spirituality Center - Sisters of Mt Carmel	12	17.3	14.6	0.1	15	249	272
AI 33916, WTSO Utilities, Beau Village Subdivision	13	3	0	0.1	2.9	276	277
AI 93344, US Fish & Wildlife Service - Southeast Louisiana Refuges	15	13.2	11.1	0.1	12.7	320	325
AI 43023, Regina Coeli Child Development Center - Lacombe/Mandeville Head Start	16	2.2	0	0.1	2.1	341	342
AI 40796, Janie Brown's Casual Restaurant	16	2.2	0	0.1	1.9	341	344
Cluster 1 on Hwy. 190 ditch BL: AIs 157721, 154892	16	2.2	0	0.1	1.4	341	349
Cluster 2 on Hwy. 190 ditch BL: AIs 157850, 99609, 157435	16	2.2	0	0.1	1.3	341	350
Cluster 3 on Hwy. 190 ditch BL: AIs 89241, 84112, 43400	16	2.2	0	0.1	1.1	341	352
Cluster 4 on Hwy. 190 ditch BL: AIs 6470, 157670, 130003, 149801	16	2.2	0	0.1	1	341	353
AI 43406, Bayou Lacombe Middle School	16	2.2	0	0.1	0.9	341	354
Cluster 5 on Hwy. 190 ditch BL: AIs 42348, 142046, 157759, 157768, 155069, 75810, 75143, 157523	16	2.2	0	0.1	0.5	341	358
Cluster 6 on Hwy. 190 ditch BL: AIs 33986, 70935, 151841, 122511, 114927, 43087, 162031	16	2.2	0	0.1	0.3	341	360
AI 97944, Hwy 434 Mini Storage Inc	18	2.2	0	0.1	2.1	373	374
AI 157861, Kingdom Hall of Jehovah's Witnesses	18	2.2	0	0.1	0.5	373	390
AI 119750, Highway 434 Retail Space	18	2.2	0	0.1	0.4	373	391
AI 165334, H2O Systems, Inc., St. Tammany Parish Coroner's Complex	22	6.5	0	0.1	5.9	436	442
AI 94173, Southeastern Louisiana Water & Sewer Co.,LLC, Medcath WWTP, LA Medical Center & Heart Hospital	22	6.5	0	0.1	3.7	436	464
AI 114220, Folger Coffee Co - Lacombe Distribution Center	24	0.4	0	0.1	0.3	521	522
AI 157509, Feather & Fin Ranch	27	2	0	0.1	1.9	564	565
AI 156133, Python Corporation - Office/Warehouse	29	1.3	0	0.1	1.2	595	596
AI 101375, OW Inc - Bayou Mini Storage	29	1.3	0	0.1	0.6	595	602
AI 31079, Brier Lake Utilities Inc - Brier Lake Estates	34	4.9	4.6	0.1	4.8	650	651
AI 156693, H2O Systems Inc - Cypress Park Subdivision	34	4.9	4.6	0.1	4.7	650	652
AI 127495, A to Z Preschool LLC	35	1.6	0	0.1	1.5	653	654
AI 123821, Kevin J. Smith Construction Company - Smith Office Building	35	1.6	0	0.1	1.4	653	655
AI 157767, St Tammany Fire Protection District 3 - Fire Station 32	35	1.6	0	0.1	0.9	653	660
AI 157892, Mottie McClary/Southern Motor Carrier Safety Consultants	35	1.6	0	0.1	0.8	653	661
AI 119584, Tiller of the Land	35	1.6	0	0.1	0.6	653	663
AI 41881, ICO Corp	36	4.6	2.9	0.1	4.1	669	674
AI 117076, LA Pines Ranch Inc	36	4.6	2.9	0.1	3.8	669	677

Appendix C3 – Calibration Loading

Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body: **Bayou Lacombe Subsegment 040901**

Shaded cells are input values for calculations. If modeling the nitrogen series, be sure that column "I" is clear of all values.

REACH NUMBER & DESCRIPTION	Calibration Model Reach Length	Calibration Model Average Reach Width	Calibration Model UCBOD1 Nonpoint loading	Calibration Model Total UCBOD Nonpoint loading	Calibration Model UNBOD Nonpoint loading	Calibration Model Total UNBOD Nonpoint loading	Calibration Model UCBOD1 Nonpoint loading	Calibration Model Total UCBOD Nonpoint loading	Calibration Model Total UNBOD Nonpoint loading	Calibration Model SOD	Calibration Model TOTAL Benthic Load
	km	meters	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]
1, BL01 TO Hwy 36 Ditch BL	0.1	5.79	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	**0.00**
2, Hwy 36 Ditch BL	4.2	1.00	0.063	0.063	0.017	0.017	0.015	0.015	0.004	0.5	**0.52**
3, Hwy 36 Ditch BL to BL02	5.7	5.79	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.3	**0.25**
4, BL02 to BL03	4.9	6.10	25.000	25.000	5.000	5.000	0.836	0.836	0.167	0.3	**1.25**
5, BL03 to SNG Ditch	0.9	7.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.8	**1.75**
6, SNG Ditch	2.1	1.00	0.032	0.032	0.009	0.009	0.015	0.015	0.004	0.5	**0.52**
7, SNG Ditch to Hwy 434/I-12 Ditch BL	0.3	7.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.8	**1.75**
8, Hwy 434/I-12 Ditch BL	3.0	1.00	0.046	0.046	0.013	0.013	0.015	0.015	0.004	0.5	**0.52**
9, Hwy 434/I-12 Ditch BL to BL04	0.2	7.16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.8	**1.75**
10, BL04 to Keller Barn Ditch	1.6	9.30	50.000	50.000	26.000	26.000	3.360	3.360	1.747	4.5	**9.61**
11, Keller Barn Ditch	0.9	1.00	0.014	0.014	0.004	0.004	0.016	0.016	0.004	0.5	**0.52**
12, Keller Barn Ditch To Beau Village Ditch	2.7	9.30	85.000	85.000	26.000	26.000	3.385	3.385	1.035	4.5	**8.92**
13, Beau Village Ditch	3.0	1.00	0.047	0.047	0.013	0.013	0.016	0.016	0.004	0.5	**0.52**
14, Beau Village Ditch to BL05	1.4	9.30	50.000	50.000	26.000	26.000	3.840	3.840	1.997	4.5	**10.34**
15, BL05 to Hwy 190 Ditch BL	2.1	25.30	250.000	250.000	90.000	90.000	4.705	4.705	1.694	3.0	**9.40**

Calibration Model Non-Point Load Equivalent Calculations:

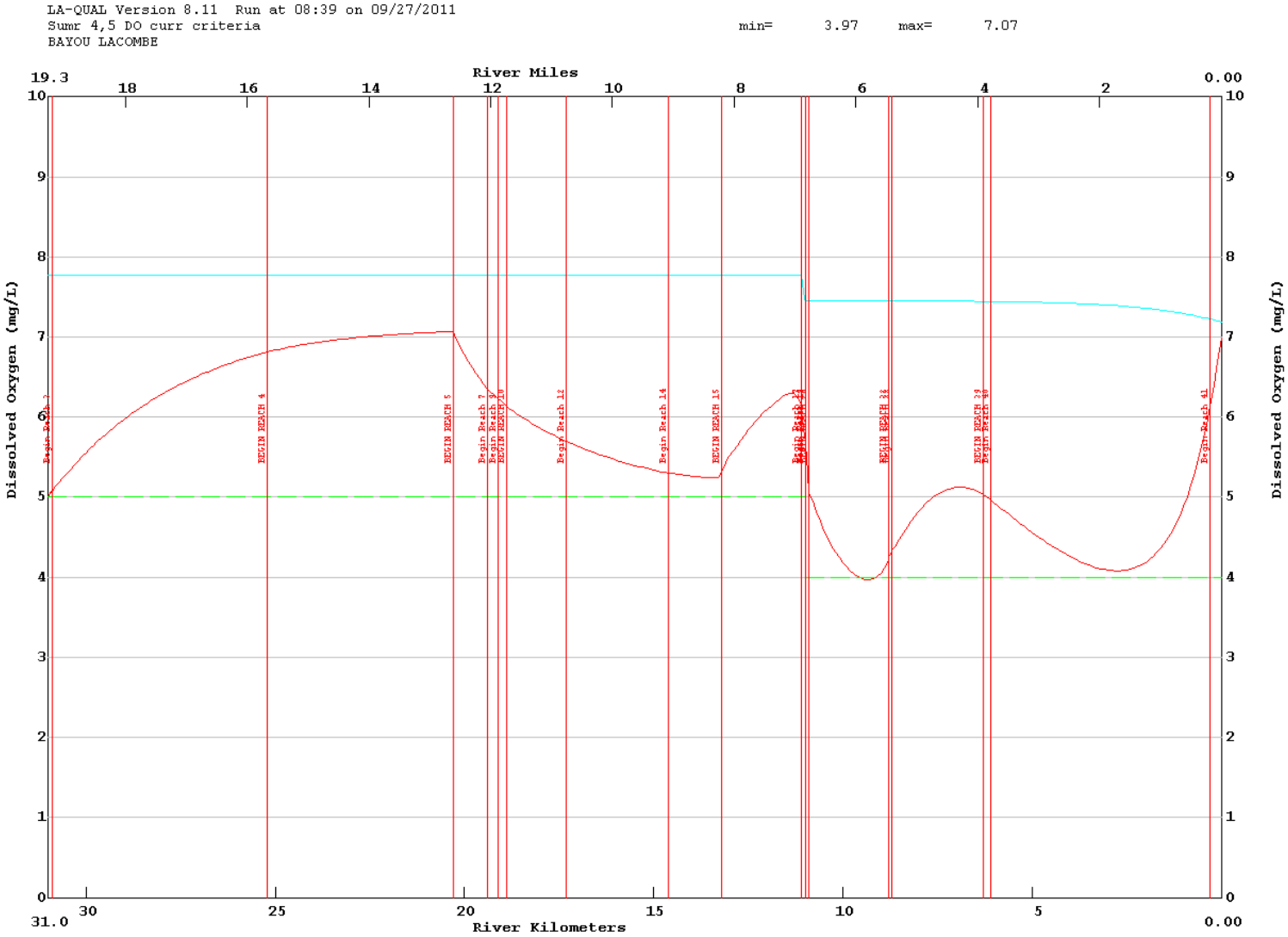
Modeled stream or water body: **Bayou Lacombe Subsegment 040902**

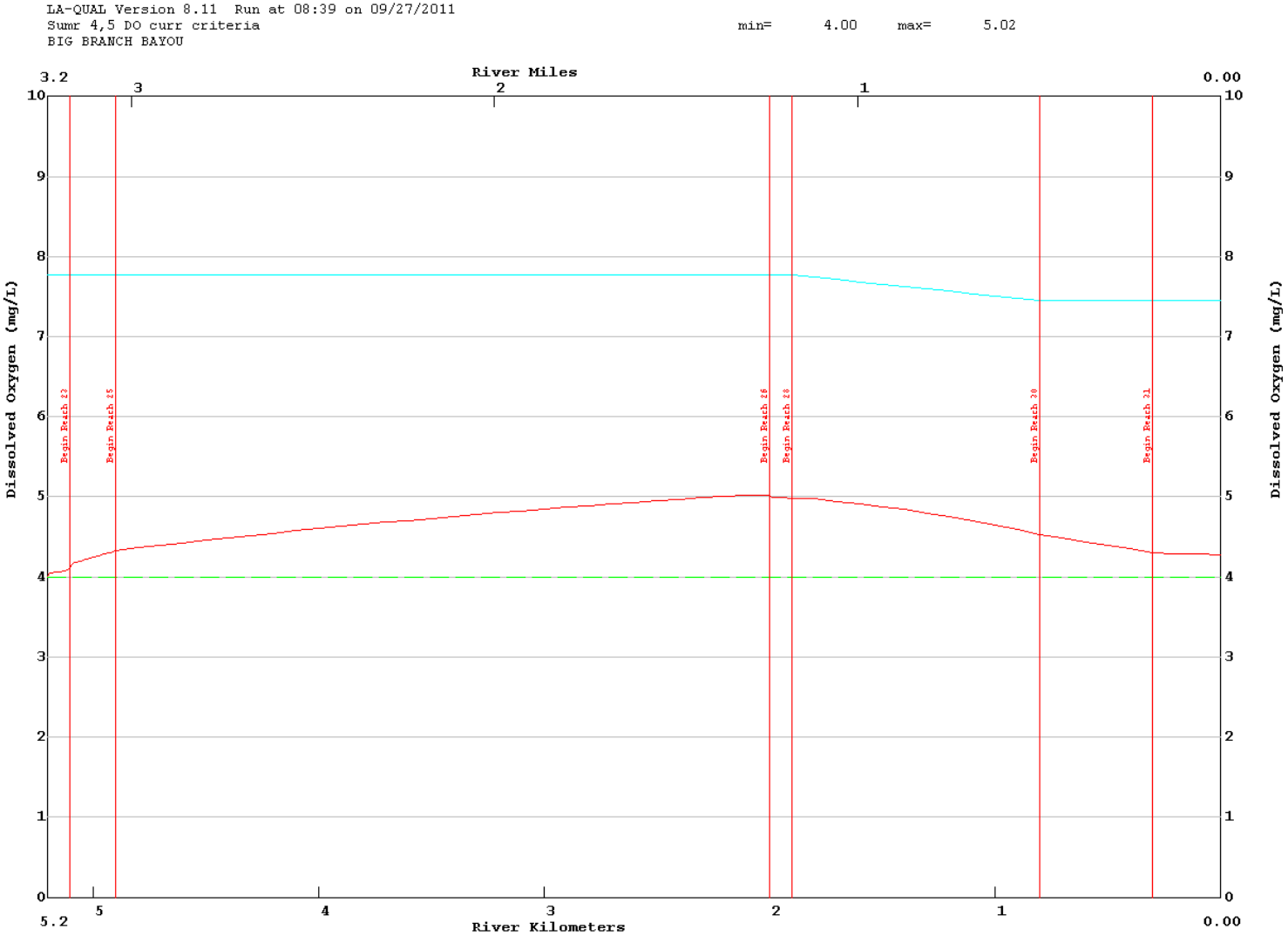
Shaded cells are input values for calculations. If modeling the nitrogen series, be sure that column "I" is clear of all values.

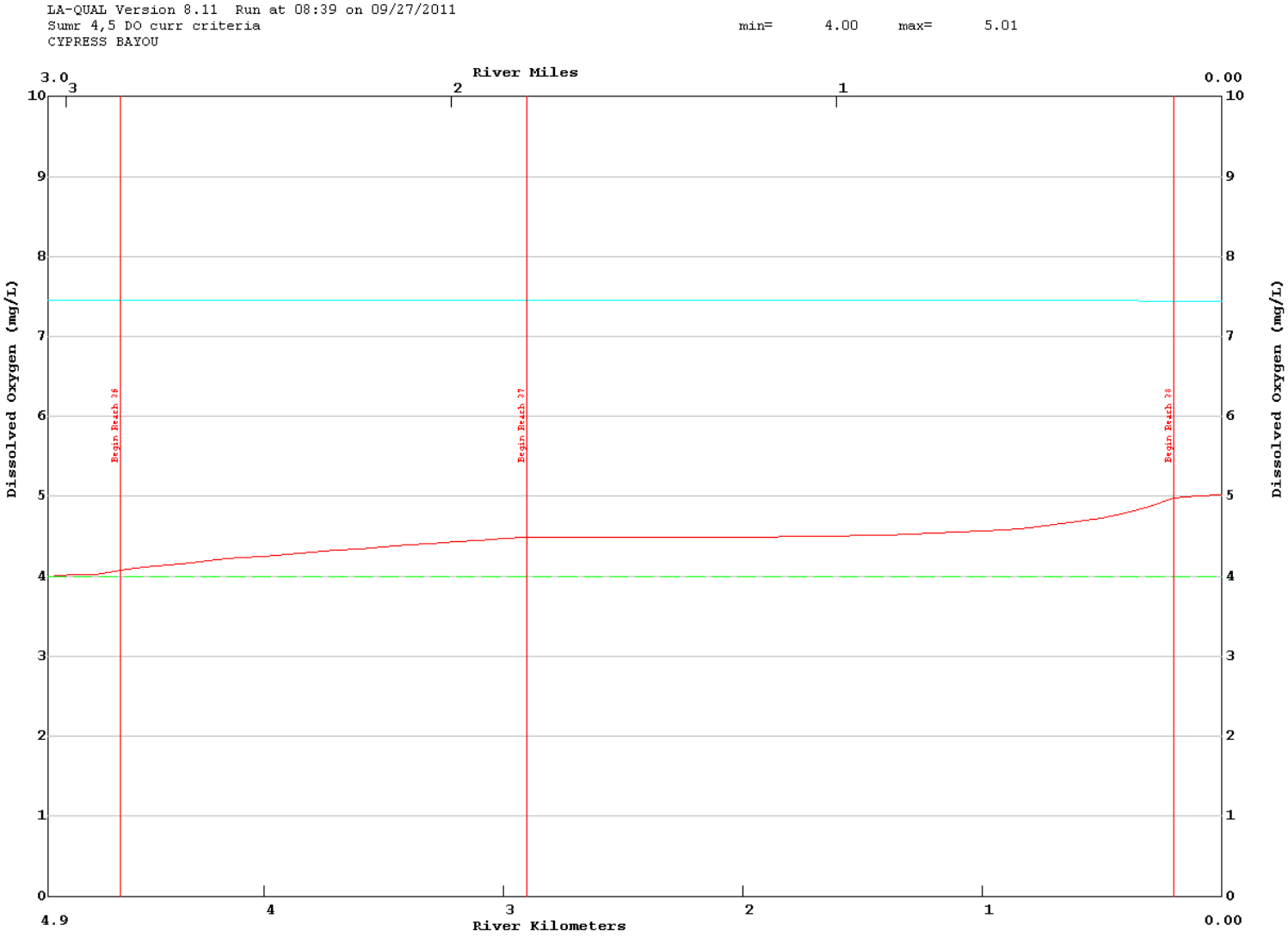
REACH NUMBER & DESCRIPTION	Calibration Model Reach Length	Calibration Model Average Reach Width	Calibration Model UCBOD1 Nonpoint loading	Calibration Model Total UCBOD Nonpoint loading	Calibration Model UNBOD Nonpoint loading	Calibration Model Total UNBOD Nonpoint loading	Calibration Model UCBOD1 Nonpoint loading	Calibration Model Total UCBOD Nonpoint loading	Calibration Model Total UNBOD Nonpoint loading	Calibration Model SOD	Calibration Model TOTAL Benthic Load
	km	meters	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]
16, Hwy 190 Ditch BL	2.2	1.00	0.035	0.035	0.010	0.010	0.016	0.016	0.005	0.5	**0.52**
17, Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.1	25.30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.0	**3.00**
18, Hwy 434/190 Ditch BL	2.2	1.00	0.035	0.035	0.010	0.010	0.016	0.016	0.005	0.5	**0.52**
19, Hwy 434/190 Ditch BL to BL06	0.1	25.30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.0	**3.00**
20, BL06 to confluence with BBB	2.1	44.20	150.000	150.000	0.000	0.000	1.616	1.616	0.000	3.5	**5.12**
21, BB03 to Hwy 434/I-12 ditch BBB	0.1	3.66	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.0	**2.00**
22, Hwy 434/I-12 Ditch BBB	6.5	1.00	0.100	0.100	0.028	0.028	0.015	0.015	0.004	0.5	**0.52**
23, Hwy 434/I-12 Ditch BBB to Folger Ditch	0.2	3.66	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.0	**2.00**
24, Folger Ditch	0.4	1.00	0.005	0.005	0.002	0.002	0.013	0.013	0.005	0.5	**0.52**
25, Folger Ditch to BB02	2.9	3.66	25.000	25.000	0.000	0.000	2.355	2.355	0.000	6.0	**8.36**
26, BB02 to Berry Todd Rd Ditch	0.1	15.24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.0	**7.00**
27, Berry Todd Rd Ditch	2.0	1.00	0.033	0.033	0.009	0.009	0.017	0.017	0.005	0.5	**0.52**
28, Berry Todd Rd Ditch to Hwy 190 Ditch BBB	1.1	15.24	35.000	35.000	0.000	0.000	2.088	2.088	0.000	7.0	**9.09**
29, Hwy 190 Ditch BBB	1.3	1.00	0.020	0.020	0.006	0.006	0.015	0.015	0.005	0.5	**0.52**
30, Hwy 190 Ditch BBB to BB01	0.5	15.24	35.000	35.000	0.000	0.000	4.593	4.593	0.000	7.0	**11.59**
31, BB01 to Confluence With Bayou Lacombe	0.3	39.62	390.000	390.000	200.000	200.000	32.812	32.812	16.827	7.0	**56.64**
32, Big Branch Bayou to BL07	0.1	82.30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.5	**3.50**
33, BL07 to confluence w/ Cypress Bayou	2.4	82.30	200.000	200.000	0.000	0.000	1.013	1.013	0.000	1.0	**2.01**
34, CB03 to Hwy 190 ditch CB	0.3	4.69	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.0	**6.00**
35, Hwy 190 Ditch CB	1.6	1.00	0.025	0.025	0.007	0.007	0.016	0.016	0.004	0.5	**0.52**
36, Hwy 190 Ditch CB to CB02	1.7	4.69	65.000	65.000	0.000	0.000	8.153	8.153	0.000	6.0	**14.15**
37, CB02 to CB01	2.7	14.02	150.000	150.000	0.000	0.000	3.963	3.963	0.000	6.0	**9.96**
38, CB01 to confluence w/ Bayou Lacombe	0.2	35.36	50.000	50.000	0.000	0.000	7.070	7.070	0.000	0.0	**7.07**
39, Cypress Bayou to BL08	0.2	74.68	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.0	**1.00**
40, BL08 to BL09	5.8	74.68	1500.000	1500.000	500.000	500.000	3.463	3.463	1.154	1.5	**6.12**
41, BL09 to Lake Pontchartrain	0.3	99.36	200.000	200.000	0.000	0.000	6.710	6.710	0.000	0.0	**6.71**

Appendix D – Projection Model Input and Output Data Sets

Appendix D1 –Summer Projection Output Graphs and Input, Overlay, and Output Files


LA-QUAL Version 8.11 Run at 08:39 on 09/27/2011
Sumr 4,5 DO curr criteria
BAYOU LACOMBE
min= 3.97 max= 7.07
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Dissolved Oxygen (mg/L)
31.0
30
25
20
15
10
5
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 08:39 on 09/27/2011
Sumr 4,5 DO curr criteria
BIG BRANCH BAYOU
min= 4.00 max= 5.02
River Miles
3.2
3
2
1
0.00
Dissolved Oxygen (mg/L)
Begin Reach 23
Begin Reach 25
Begin Reach 26
Begin Reach 28
Begin Reach 30
Begin Reach 31
5.2
5
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 08:39 on 09/27/2011
Sumr 4,5 DO curr criteria
CYPRESS BAYOU
min= 4.00 max= 5.01
River Miles
3.0
3
2
1
0.00
Dissolved Oxygen (mg/L)
Begin Reach 26
Begin Reach 27
Begin Reach 28
4.9
4
3
2
1
0.00
River Kilometers

BAYOU LACOMBE SUMMER PROJECTION INPUT DATA SET

```
TITLE01      BAYOU LACOMBE WATERSHED MODEL
TITLE02      Sumr 4,5 DO curr criteria
CONTROL  YES METRIC UNITS
ENDATA01
MODOPT    NO TEMPERATURE
MODOPT   YES SALINITY
MODOPT   YES CONSERVATIVE MATERIAL  I = CHLORIDE                  IN  mg/L     chloride
MODOPT   YES CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN  uS/cm    conduct
MODOPT   YES DISSOLVED OXYGEN
MODOPT   YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT    NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT   YES NBOD OXYGEN DEMAND
MODOPT    NO PHOSPHORUS
MODOPT    NO CHLOROPHYLL A
MODOPT    NO MACROPHYTES
MODOPT    NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  DISPERSION EQUATION               =     1
PROGRAM  OCEAN EXCHANGE RATIO              =     1.0
PROGRAM  TIDE HEIGHT                       =     0.152
PROGRAM  TIDAL PERIOD                      =     25.0
PROGRAM  PERIOD OF TIDAL RISE              =     12.5
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =      2.0
PROGRAM  SETTLING RATE UNITS               =      2.0
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
```

!	R#	ID	REACH NAME	RKM	RKM	LENGTH
REACH ID	1	BL	BL01 TO Hwy 36 Ditch BL	31.0	30.9	0.01
REACH ID	2	D1	Hwy 36 Ditch BL	4.2	0.0	0.1
REACH ID	3	BL	Hwy 36 Ditch BL to BL02	30.9	25.2	0.1
REACH ID	4	BL	BL02 to BL03	25.2	20.3	0.1
REACH ID	5	BL	BL03 to SNG Ditch	20.3	19.4	0.1
REACH ID	6	D2	SNG Ditch	2.1	0.0	0.1
REACH ID	7	BL	SNG Ditch to Hwy434/I-12 Dich BL	19.4	19.1	0.1
REACH ID	8	D3	Hwy 434/I-12 Ditch BL	3.0	0.0	0.1
REACH ID	9	BL	Hwy434/I-12DitchBL to BL04	19.1	18.9	0.1
REACH ID	10	BL	BL04 to Keller Barn Ditch	18.9	17.3	0.1
REACH ID	11	D4	Keller Barn Ditch	0.9	0.0	0.1
REACH ID	12	BL	KellerBarnDitchToBeauVillageDich	17.3	14.6	0.1
REACH ID	13	D5	Beau Village Ditch	3.0	0.0	0.1
REACH ID	14	BL	Beau Village Ditch to BL05	14.6	13.2	0.1
REACH ID	15	BL	BL05 to Hwy 190 Ditch BL	13.2	11.1	0.1
REACH ID	16	D6	Hwy 190 Ditch BL	2.2	0.0	0.1
REACH ID	17	BL	Hwy190DitchBLtoHwy434/190DitchBL	11.1	11.0	0.01
REACH ID	18	D7	Hwy 434/190 Ditch BL	2.2	0.0	0.1
REACH ID	19	BL	Hwy 434/190 Ditch BL to BL06	11.0	10.9	0.01
REACH ID	20	BL	BL06 to confluence with BBB	10.9	8.8	0.1
REACH ID	21	BB	BB03 to Hwy 434/I-12 ditch BBB	5.2	5.1	0.01
REACH ID	22	D8	Hwy 434/I-12 Ditch BBB	6.5	0.0	0.1
REACH ID	23	BB	Hwy434/I-12DitchBBBtoFolgerDitch	5.1	4.9	0.01
REACH ID	24	D9	Folger Ditch	0.4	0.0	0.1
REACH ID	25	BB	Folger Ditch to BB02	4.9	2.0	0.1
REACH ID	26	BB	BB02 to Berry Todd Rd Ditch	2.0	1.9	0.01
REACH ID	27	DA	Berry Todd Rd Ditch	2.0	0.0	0.1
REACH ID	28	BB	BerryToddRdDitchtoHwy190DitchBBB	1.9	0.8	0.1
REACH ID	29	DB	Hwy 190 Ditch BBB	1.3	0.0	0.1
REACH ID	30	BB	Hwy 190 Ditch BBB to BB01	0.8	0.3	0.1
REACH ID	31	BB	BB01toConfluenceWithBayouLacombe	0.3	0.0	0.1
REACH ID	32	BL	Big Branch Bayou to BL07	8.8	8.7	0.01
REACH ID	33	BL	BL07to confluence w/CypressBayou	8.7	6.3	0.1
REACH ID	34	CB	CB03 to Hwy 190 ditch CB	4.9	4.6	0.1
REACH ID	35	DC	Hwy 190 Ditch CB	1.6	0.0	0.1
REACH ID	36	CB	Hwy 190 Ditch CB to CB02	4.6	2.9	0.1
REACH ID	37	CB	CB02 to CB01	2.9	0.2	0.1
REACH ID	38	CB	CB01to confluence w/BayouLacombe	0.2	0.0	0.1
REACH ID	39	BL	Cypress Bayou to BL08	6.3	6.1	0.1
REACH ID	40	BL	BL08 to BL09	6.1	0.3	0.1
REACH ID	41	BL	BL09 to Lake Pontchartrain	0.3	0.0	0.1

```
ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!              WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#  COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1    0.0     0.0   5.79    0.0    0.0  0.40        0   0.02
HYDR-1      2    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      3    0.0     0.0   5.79    0.0    0.0  0.40        0   0.02
HYDR-1      4    0.0     0.0   6.10    0.0    0.0  0.18        0   0.02
HYDR-1      5    0.0     0.0   7.16    0.0    0.0  0.17        0   0.02
HYDR-1      6    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      7    0.0     0.0   7.16    0.0    0.0  0.17        0   0.02
HYDR-1      8    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      9    0.0     0.0   7.16    0.0    0.0  0.17        0   0.02
HYDR-1     10    0.0     0.0   9.30    0.0    0.0  0.42        0   0.02
HYDR-1     11    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     12    0.0     0.0   9.30    0.0    0.0  0.42        0   0.02
HYDR-1     13    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     14    0.0     0.0   9.30    0.0    0.0  0.42        0   0.02
HYDR-1     15    0.0     0.0  25.30    0.0    0.0  3.60        0   0.02
HYDR-1     16    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     17    0.0     0.0  25.30    0.0    0.0  3.60        0   0.02
HYDR-1     18    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     19    0.0     0.0  25.30    0.0    0.0  3.60        0   0.02
HYDR-1     20    0.0     0.0  44.20    0.0    0.0  3.15        0   0.02
HYDR-1     21    0.0     0.0   3.66    0.0    0.0  0.39        0   0.02
HYDR-1     22    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     23    0.0     0.0   3.66    0.0    0.0  0.39        0   0.02
HYDR-1     24    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     25    0.0     0.0   3.66    0.0    0.0  0.39        0   0.02
HYDR-1     26    0.0     0.0  15.24    0.0    0.0  1.12        0   0.02
HYDR-1     27    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     28    0.0     0.0  15.24    0.0    0.0  1.12        0   0.02
HYDR-1     29    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     30    0.0     0.0  15.24    0.0    0.0  1.12        0   0.02
HYDR-1     31    0.0     0.0  39.62    0.0    0.0  2.13        0   0.02
HYDR-1     32    0.0     0.0  82.30    0.0    0.0  2.56        0   0.02
HYDR-1     33    0.0     0.0  82.30    0.0    0.0  2.56        0   0.02
HYDR-1     34    0.0     0.0   4.69    0.0    0.0  0.29        0   0.02
```

```
HYDR-1      35     0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      36     0.0     0.0   4.69    0.0    0.0  0.29        0   0.02
HYDR-1      37     0.0     0.0  14.02    0.0    0.0  1.39        0   0.02
HYDR-1      38     0.0     0.0  35.36    0.0    0.0  2.73        0   0.02
HYDR-1      39     0.0     0.0  74.68    0.0    0.0  3.03        0   0.02
HYDR-1      40     0.0     0.0  74.68    0.0    0.0  3.03        0   0.02
HYDR-1      41     0.0     0.0  99.36    0.0    0.0  1.80        0   0.02
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!          R#  RANGE    a          b         c         d
!         ***  -----**********----------**********----------
HYDR-2       1  0.00 0.5        0.000     0.0       0.0
HYDR-2       2  0.00   0        0.000     0.0       0.0
HYDR-2       3  0.00 0.5        0.000     0.0       0.0
HYDR-2       4  0.00 0.5        0.000     0.0       0.0
HYDR-2       5  0.00 0.5        0.000     0.0       0.0
HYDR-2       6  0.00    0       0.000     0.0       0.0
HYDR-2       7  0.00 0.5        0.000     0.0       0.0
HYDR-2       8  0.00   0        0.000     0.0       0.0
HYDR-2       9  0.00 0.5        0.000     0.0       0.0
HYDR-2      10  0.25 0.5        0.000     0.0       0.0
HYDR-2      11  0.00    0       0.000     0.0       0.0
HYDR-2      12  0.25 0.5        0.000     0.0       0.0
HYDR-2      13  0.00   0        0.000     0.0       0.0
HYDR-2      14  0.50 0.5        0.000     0.0       0.0
HYDR-2      15  0.75 0.5        0.000     0.0       0.0
HYDR-2      16  0.00   0        0.000     0.0       0.0
HYDR-2      17  0.75 0.5        0.000     0.0       0.0
HYDR-2      18  0.00    0       0.000     0.0       0.0
HYDR-2      19  0.75 0.5        0.000     0.0       0.0
HYDR-2      20  1.00 2          0.000     0.0       0.0
HYDR-2      21  0.25 0.5        0.000     0.0       0.0
HYDR-2      22  0.00    0       0.000     0.0       0.0
HYDR-2      23  0.50 1.0        0.000     0.0       0.0
HYDR-2      24  0.00    0       0.000     0.0       0.0
HYDR-2      25  0.75 2.0        0.000     0.0       0.0
HYDR-2      26  1.00 2.5        0.000     0.0       0.0
HYDR-2      27  0.00    0       0.000     0.0       0.0
HYDR-2      28  1.00 3.5        0.000     0.0       0.0
HYDR-2      29  0.00    0       0.000     0.0       0.0
```

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HYDR-2     30  1.00 5.5        0.000     0.0       0.0
HYDR-2     31  1.00 7.5        0.000     0.0       0.0
HYDR-2     32  1.00 3          0.000     0.0       0.0
HYDR-2     33  1.00 4          0.000     0.0       0.0
HYDR-2     34  0.50 1          0.000     0.0       0.0
HYDR-2     35  0.00    0       0.000     0.0       0.0
HYDR-2     36  0.75 3.5        0.000     0.0       0.0
HYDR-2     37  1.00 5.5        0.000     0.0       0.0
HYDR-2     38  1.00 7.5        0.000     0.0       0.0
HYDR-2     39  1.00 5          0.000     0.0       0.0
HYDR-2     40  1.00 6          0.000     0.0       0.0
HYDR-2     41  1.00 7.5        0.000     0.0       0.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1     28.40    0.01   5.00    0.00    0.000   0.00    0.0     0.0
INITIAL     2     28.40    0.01   5.00    0.000   0.000   0.00    0.0     0.0
INITIAL     3     28.40    0.01   5.00    0.000   0.000   0.00    0.0     0.0
INITIAL     4     28.40    0.00   5.00    0.000   0.000   0.00    0.0     0.0
INITIAL     5     28.40    0.00   5.00    0.000   0.000   0.00   0000     0.0
INITIAL     6     28.40    0.00   5.00    0.000   0.000   0.000  0000     0.0
INITIAL     7     28.40    0.00   5.00    0.000   0.000   0.000   000     0.0
INITIAL     8     28.40    0.00   5.00    0.000   0.000   0.000  0000     0.0
INITIAL     9     28.40    0000   5.00    0.000   0.000   0.000  0000     0.0
INITIAL    10     28.40    0.02   5.00    0.000   0.000   0.000  0000     0.0
INITIAL    11     28.40    0.02   5.00    0.000   0.000   0.000  0000     0.0
INITIAL    12     28.40    0.02   5.00    0.000   0.000   0.000  0000     0.0
INITIAL    13     28.40    0.02   5.00    0.00    0.000   0.00    0.0     0.0
INITIAL    14     28.40    0.02   5.00    0.000   0.000   0.00    0.0     0.0
INITIAL    15     28.40    0.36   5.00    0.000   0.000   0.00   10.0     0.0
INITIAL    16     28.40    0.36   4.00    0.000   0.000   0.00    0.0     0.0
INITIAL    17     28.40    0.36   4.00    0.000   0.000   0.00   10.0     0.0
INITIAL    18     28.40    0.36   4.00    0.000   0.000   0.000  0000     0.0
INITIAL    19     30.80    0.36   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    20     30.80    4.78   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    21     28.40    0000   4.00    0.000   0.000   0.000  2.60     0.0
INITIAL    22     28.40    0.00   4.00    0.000   0.000   0.000  0000     0.0
INITIAL    23     28.40    0000   4.00    0.000   0.000   0.000  2.60     0.0
INITIAL    24     28.40    0.00   4.00    0.000   0.000   0.000  0000     0.0
```

```
INITIAL    25     28.40    0.00   4.00    0.000   0.000   0.000  2.60     0.0
INITIAL    26     28.40    0.35   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    27     28.40    0.35   4.00    0.000   0.000   0.000  0000     0.0
INITIAL    28     28.40    0.35   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    29     28.40    0.35   4.00    0.000   0.000   0.000  0000     0.0
INITIAL    30     30.80    0.35   4.00    0.00    0.000   0.00   10.0     0.0
INITIAL    31     30.80    4.19   4.00    0.000   0.000   0.00   10.0     0.0
INITIAL    32     30.80    4.08   4.00    0.000   0.000   0.00   10.0     0.0
INITIAL    33     30.80    4.08   4.00    0.000   0.000   0.00   10.0     0.0
INITIAL    34     30.80    0.14   4.00    0.000   0.000   0.00   10.0     0.0
INITIAL    35     30.80    0.14   4.00    0.000   0.000   0.000  0000     0.0
INITIAL    36     30.80    0.14   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    37     30.80    3.82   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    38     30.80    5.34   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    39     30.80    5.26   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    40     30.80    5.26   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    41     30.80    7.05   4.00    0.000   0.000   0.000  10.0     0.0
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9----
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234
!         ***  -----********** ******-------*******-------*******-------*******-------*******
!               REA                            BOD 1  BOD 1   BOD 1       BOD 2    BOD 2  BOD 2
!          R#   EQ   "a"                  SOD  DECAY  SETT    CONV        DECAY    SETT   CONV
COEF-1      1   11.0  0.00 0.0   0.0     0.00  .034  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      2   15.0  0.00 0.0   0.0    0.625  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      3   11.0  0.00 0.0   0.0    0.313  .034  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      4   11.0  0.00 0.0   0.0    0.313  .031  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      5   11.0  0.00 0.0   0.0    2.188  .038  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      6   15.0  0.00 0.0   0.0    0.625  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      7   11.0  0.00 0.0   0.0    2.188  .038  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      8   15.0  0.00 0.0   0.0    0.625  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      9   11.0  0.00 0.0   0.0    2.188  .038  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     10   11.0  0.00 0.0   0.0    1.688  .029  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     11   15.0  0.00 0.0   0.0    0.188  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     12   11.0  0.00 0.0   0.0    1.688  .029  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     13   15.0  0.00 0.0   0.0    0.188  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     14   11.0  0.00 0.0   0.0    1.688  .029  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     15    3.0  0.00 0.0   0.0    1.125  .045  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     16   15.0  0.00 0.0   0.0    0.375  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     17    3.0  0.00 0.0   0.0    2.250  .045  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     18   15.0  0.00 0.0   0.0    0.375  .080  0.05    0.0     0.00 .000    0.00    0.0
```

```
COEF-1      19    3.0  0.00 0.0   0.0    2.250  .045  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      20    3.0  0.00 0.0   0.0    2.625  .041  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      21   11.0  0.00 0.0   0.0     0.50  .070  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      22   15.0  0.00 0.0   0.0    0.125  .08   0.05    0.0     0.00 .000    0.00    0.0
COEF-1      23   11.0  0.00 0.0   0.0    0.500  .070  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      24   15.0  0.00 0.0   0.0    0.125  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      25   11.0  0.00 0.0   0.0    1.500  .070  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      26    3.0  0.00 0.0   0.0    1.750  .053  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      27   15.0  0.00 0.0   0.0    0.125  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      28    3.0  0.00 0.0   0.0    1.750  .053  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      29   15.0  0.00 0.0   0.0    0.125  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      30    3.0  0.00 0.0   0.0    1.750  .053  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      31    3.0  0.00 0.0   0.0    1.750  .049  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      32    3.0  0.00 0.0   0.0    4.375  .048  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      33    3.0  0.00 0.0   0.0     1.25  .048  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      34   11.0  0.00 0.0   0.0    1.500  .069  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      35   15.0  0.00 0.0   0.0    0.125  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      36   11.0  0.00 0.0   0.0    1.500  .069  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      37    3.0  0.00 0.0   0.0    1.500  .052  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      38    3.0  0.00 0.0   0.0     0.00  .054  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      39    3.0  0.00 0.0   0.0     1.25  .051  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      40    3.0  0.00 0.0   0.0    1.688  .051  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      41    3.0  0.00 0.0   0.0     0.00  .063  0.05    0.0     0.00 .000    0.00    0.0
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.005    0.05
COEF-2      2  0.030    0.05
COEF-2      3  0.005    0.05
COEF-2      4  0.595    0.05
COEF-2      5  0.041    0.05
COEF-2      6  0.030    0.05
COEF-2      7  0.041    0.05
COEF-2      8  0.030    0.05
COEF-2      9  0.041    0.05
COEF-2     10  0.070    0.05
COEF-2     11  0.030    0.05
COEF-2     12  0.070    0.05
```

```
COEF-2      13  0.030    0.05
COEF-2      14  0.070    0.05
COEF-2      15  0.052    0.05
COEF-2      16  0.030    0.05
COEF-2      17  0.052    0.05
COEF-2      18  0.030    0.05
COEF-2      19  0.052    0.05
COEF-2      20  0.089    0.05
COEF-2      21  0.595    0.05
COEF-2      22  0.030    0.05
COEF-2      23  0.595    0.05
COEF-2      24  0.030    0.05
COEF-2      25  0.595    0.05
COEF-2      26  0.106    0.05
COEF-2      27  0.030    0.05
COEF-2      28  0.106    0.05
COEF-2      29  0.030    0.05
COEF-2      30  0.106    0.05
COEF-2      31  0.042    0.05
COEF-2      32  0.129    0.05
COEF-2      33  0.129    0.05
COEF-2      34  0.136    0.05
COEF-2      35  0.030    0.05
COEF-2      36  0.136    0.05
COEF-2      37  0.054    0.05
COEF-2      38  0.080    0.05
COEF-2      39  0.064    0.05
COEF-2      40  0.064    0.05
COEF-2      41  0.101    0.05
ENDATA13
ENDATA14
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------*********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
!
INCR-1      1    0.0     0.179959 20.85   0.01        5.60     51.6
INCR-1      2    0.0     0.000000 00000   0.00        0000     00.00
INCR-1      3    0.0     0.000000 00000   0.00        0000     00000
INCR-1      4    0.0     0.041881 21.28   0.00         5.5     56.00
```

```
INCR-1       5    0.0     0.043261 22.03   0.00         5.7     58.04
INCR-1       6    0.0     0.0000   00.000  0.00         000     00000
INCR-1       7    0.0     0.000000 00000   0.00        0000     00000
INCR-1       8    0.0     0.0000   00.000  0.00         000     00000
INCR-1       9    0.0     0.0000   00.000  0.00         000     00000
INCR-1      10    0.0     0.000000 00000   0.00        0000     00000
INCR-1      11    0.0     0.0000   00.000  0.00         000     00000
INCR-1      12    0.0     0.0000   00.000  0.00         000     00000
INCR-1      13    0.0     0.000000 00000   0.00        0000     0000
INCR-1      14    0.0     0.000000 00000   0.00        0000     00000
INCR-1      15    0.0     0.000000 00000   0.00        0000     00000
INCR-1      16    0.0     0.0000   00.000  0.00         000     00000
INCR-1      17    0.0     0.0000   00.000  0.00         000     00000
INCR-1      18    0.0     0.0000   00.000  0.00         000     00000
INCR-1      19    0.0     0.000000 00000   0.00        0000     00000
INCR-1      20    0.0     0.0000   00.000  0.00         000     00000
INCR-1      21    0.0     0.147505 21.66   0.00         10.4    95.61
INCR-1      22    0.0     0.000000 00000   0.00        0000     00000
INCR-1      23    0.0     0.0000   00.000  0.00         000     00000
INCR-1      24    0.0     0.0000   00.000  0.00         000     00000
INCR-1      25    0.0     0.0000   00.000  0.00         000     00000
INCR-1      26    0.0     0.0000   00.000  0.00         000     00000
INCR-1      27    0.0     0.000000 00000   0.00        0000     00000
INCR-1      28    0.0     0.0000   00.000  0.00         000     00000
INCR-1      29    0.0     0.0000   00.000  0.00         000     00000
INCR-1      30    0.0     0.000000 00000   0.00        0000     0000
INCR-1      31    0.0     0.000000 00000   0.00        0000     00000
INCR-1      32    0.0     0.000000 00000   0.00        0000     00000
INCR-1      33    0.0     0.0000   00.000  0.00         000     00000
INCR-1      34    0.0     0.188823 23.25   0.14         22.5    286.9
INCR-1      35    0.0     0.0000   00.000  0.00         000     00000
INCR-1      36    0.0     0.000000 00000   0.00        0000     00000
INCR-1      37    0.0     0.0000   00.000  0.00         000     00000
INCR-1      38    0.0     0.0000   00.000  0.00         000     00000
INCR-1      39    0.0     0.000000 00000   0.00        0000     00000
INCR-1      40    0.0     0.0000   00.000  0.00         000     00000
INCR-1      41    0.0     0.0000   00.000  0.00         000     00000
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
```

!	R#	DO	BOD 1	NBOD	NH3 N	NIT NIT	BOD 2
INCR-2	1	5.00	1.91	0.00	0.0	0.00	0.000
INCR-2	2	0000	0.00	0.00	0.0	0.00	0.00
INCR-2	3	0000	0000	0.00	0.0	0.00	0.00
INCR-2	4	5.00	1.650	0.030	0.0	0.00	0.000
INCR-2	5	5.00	2.990	0.490	0.0	0.00	0.000
INCR-2	6	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	7	0000	0.00	0.00	0.0	0.00	0000
INCR-2	8	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	9	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	10	0000	00000	0000	0.0	0.00	0000
INCR-2	11	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	12	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	13	0000	0.00	0.00	0.0	0.00	0.00
INCR-2	14	0000	0.00	0.00	0.0	0.00	0.00
INCR-2	15	0000	0000	0.00	0.0	0.00	0.00
INCR-2	16	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	17	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	18	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	19	0000	0.00	0.00	0.0	0.00	0000
INCR-2	20	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	21	4.00	0.670	0.010	0.0	0.00	00000
INCR-2	22	0000	00000	0000	0.0	0.00	0000
INCR-2	23	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	24	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	25	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	26	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	27	0000	00000	0000	0.0	0.00	0000
INCR-2	28	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	29	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	30	0000	0.00	0.00	0.0	0.00	0.00
INCR-2	31	0000	0.00	0.00	0.0	0.00	0.00
INCR-2	32	0000	0000	0.00	0.0	0.00	0.00
INCR-2	33	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	34	4.00	4.10	0.64	0.0	0.00	0000
INCR-2	35	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	36	0000	0.00	0.00	0.0	0.00	0000
INCR-2	37	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	38	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	39	0000	00000	0000	0.0	0.00	0000
INCR-2	40	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	41	0.00	0.00	0.00	0.0	0.00	0.00

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ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
!
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1        0.0   0.0000     0.00      0.0      0.0      0.0
NONPOINT    2      0.079   00.021     0.00     00.0      0.0      0.0
NONPOINT    3       00.0   0.0000     0.00      0.0      0.0      0.0
NONPOINT    4      31.25   6.2500     0.00     00.0      0.0    000.0
NONPOINT    5       00.0   00.000     0.00     00.0      0.0    000.0
NONPOINT    6      0.040   00.011     0.00    000.0      0.0     00.0
NONPOINT    7       00.0   00.000     0.00      0.0      0.0     00.0
NONPOINT    8      0.058   00.016     0.00     00.0      0.0     00.0
NONPOINT    9       00.0   00.000     0.00    000.0      0.0    000.0
NONPOINT   10      18.75    9.750     0.00     00.0      0.0     00.0
NONPOINT   11      0.005   0.0020     0.00      0.0      0.0      0.0
NONPOINT   12     31.875    9.750     0.00    000.0      0.0    000.0
NONPOINT   13      0.018   00.005     0.00      0.0      0.0      0.0
NONPOINT   14      18.75    9.750     0.00     00.0      0.0      0.0
NONPOINT   15      93.75    33.75     0.00      0.0      0.0      0.0
NONPOINT   16      0.026   00.008     0.00     00.0      0.0    000.0
NONPOINT   17       00.0   00.000     0.00     00.0      0.0    000.0
NONPOINT   18      0.026   00.008     0.00    000.0      0.0     00.0
NONPOINT   19       00.0   00.000     0.00      0.0      0.0     00.0
NONPOINT   20     112.50  00.0000     0.00     00.0      0.0     00.0
NONPOINT   21      0.000      000     0.00    000.0      0.0    000.0
NONPOINT   22      0.025    0.007     0.00     00.0      0.0    000.0
NONPOINT   23       00.0      000     0.00      0.0      0.0      0.0
NONPOINT   24      0.001    0.001     0.00    000.0      0.0    000.0
NONPOINT   25       6.25      000     0.00     00.0      0.0     00.0
NONPOINT   26      000.0      000     0.00    000.0      0.0    000.0
NONPOINT   27      0.008    0.002     0.00     00.0      0.0     00.0
NONPOINT   28      8.750      000     0.00      0.0      0.0      0.0
NONPOINT   29      0.005    0.002     0.00    000.0      0.0    000.0
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NONPOINT   30       8.75       00     0.00      0.0      0.0      0.0
NONPOINT   31     97.500       50     0.00     00.0      0.0      0.0
NONPOINT   32       00.0   0.0000     0.00      0.0      0.0      0.0
NONPOINT   33      250.0  000.000     0.00     00.0      0.0    000.0
NONPOINT   34      0.000   00.000     0.00     00.0      0.0    000.0
NONPOINT   35      0.006   00.002     0.00    000.0      0.0     00.0
NONPOINT   36     16.250   000.00     0.00      0.0      0.0     00.0
NONPOINT   37     37.500   000.00     0.00     00.0      0.0     00.0
NONPOINT   38     12.500   000.00     0.00    000.0      0.0    00000
NONPOINT   39       00.0    0.000     0.00     00.0      0.0     00.0
NONPOINT   40    1687.50   562.50    0.00      0.0      0.0      0.0
NONPOINT   41        250     0000     0.00    000.0      0.0    000.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  BAYOU LACOMBE            0.092    28.40  0.01       5.6   51.6
HDWTR-1    11  Ditch #1 Hwy 36 BL       0.00028  28.40  0.01       5.6   51.6
HDWTR-1   168  Ditch #2 SNG ditch       0.00028  28.40  0.01       5.6   51.6
HDWTR-1   192  Ditch#3Hwy434/I-12BL     0.00028  28.40  0.01       5.6   51.6
HDWTR-1   240  Ditch #4 Keller Barn     0.00028  28.40  0.01       5.6   51.6
HDWTR-1   276  Ditch#5 Beau Village     0.00028  28.40  0.01       5.6   51.6
HDWTR-1   341  Ditch #6 Hwy 190 BL      0.00028  28.40  0.01       5.6   51.6
HDWTR-1   373  Ditch#7 Hwy434/190BL     0.00028  28.40  0.01       5.6   51.6
HDWTR-1   426  Big Branch Bayou         0.009    28.40  0.00      10.4   95.61
HDWTR-1   436  Dich#8Hwy434/I-12BBB     0.00028  28.40  0.00      10.4   95.61
HDWTR-1   521  Ditch #9 Folger          0.00028  28.40  0.00      10.4   95.61
HDWTR-1   564  Ditch A BerryTodd Rd     0.00028  28.40  0.00      10.4   95.61
HDWTR-1   595  Ditch B Hwy 190 BBB      0.00028  28.40  0.00      10.4   95.61
HDWTR-1   650  Cypress Bayou            0.023    30.80  0.14      22.5   286.9
HDWTR-1   653  Ditch C Hwy 190 CB       0.00028  30.80  0.14      22.5   286.9
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD    NH3-N    NIT NIT  BOD 2
HDWTR-2     1      5.00     1.913    0.000   .00      .00      0.000
HDWTR-2    11      5.00     2.750    1.250   .00      .00      00000
HDWTR-2   168      5.00     2.750    1.250   .00      .00      00000
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HDWTR-2   192      5.00     2.75     1.250   .00      .00      0.000
HDWTR-2   240      5.00     0.825    0.375   .00      .00      00000
HDWTR-2   276      5.00     0.825    0.375   .00      .00      00000
HDWTR-2   341      4.00     1.65     0.750   .00      .00      0.000
HDWTR-2   373      4.00     1.650    0.750   .00      .00      00000
HDWTR-2   426      4.00     0.671    0.012   .00      .00      00000
HDWTR-2   436      4.00     0.55     0.250   .00      .00      0.000
HDWTR-2   521      4.00     0.550    0.250   .00      .00      00000
HDWTR-2   564      4.00     0.550    0.250   .00      .00      00000
HDWTR-2   595      4.00     0.55     0.250   .00      .00      0.000
HDWTR-2   650      4.00     4.096    0.638   .00      .00      00000
HDWTR-2   653      4.00     0.550    0.250   .00      .00      00000
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
ENDATA22
!         DS   US
JUNCTION  53   10   Hwy 36 ditch BL confluence with Bayou Lacombe
JUNCTION  189  167  Ditch #2-SNG Ditch confluence with Bayou Lacombe
JUNCTION  222  191  Ditch #3-Hwy 434/I-12 Ditch BL confluence with Bayou Lacombe
JUNCTION  249  239  Ditch #4-Keller Barn Ditch confluence with Bayou Lacombe
JUNCTION  306  275  Ditch #5-Beau Village Ditch confluence with Bayou Lacombe
JUNCTION  363  340  Ditch #6-Hwy 190 Ditch BL confluence with Bayou Lacombe
JUNCTION  395  372  Ditch #7-Hwy 434/190 Ditch BL confluence with Bayou Lacombe
JUNCTION  501  435  Ditch #8-Hwy 434/I-12 Ditch BBB confluence w/Big BranchBayou
JUNCTION  525  520  Ditch #9-Folger Ditch confluence with Big Branch Bayou
JUNCTION  584  563  Ditch A-Berry Todd Rd Ditch confluence with Big Branch Bayou
JUNCTION  608  594  Ditch B-Hwy 190 Ditch BBB confluence with Big Branch Bayou
JUNCTION  616  425  Big Branch Bayou confluence with Bayou Lacombe
JUNCTION  669  652  Ditch C-Hwy 190 Ditch CB confluence with Cypress Bayou
JUNCTION  715  649  Cypress Bayou confluence with Bayou Lacombe
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------------------********---------********---------********
!          E#     NAME                FLOW      TEMP   SALINITY CHLORIDE  COND
WSTLD-1    12  AI 138040 Animal Se 0.0002191   30.60    0.37     57.9    719.7
WSTLD-1    40  AI 120304 St Tamman 0.0001315   30.60    0.37     57.9    719.7
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WSTLD-1   169  AI 94746 Southern N 0.0001369   30.60    0.37     57.9    719.7
WSTLD-1   196  AI 155402 Axonic Ne 0.0000548   30.60    0.37     57.9    719.7
WSTLD-1   206  Cluster1Hwy434I12BL 0.0002788   30.60    0.37     57.9    719.7
WSTLD-1   208  Cluster2Hwy434I12BL 0.0005728   30.60    0.37     57.9    719.7
WSTLD-1   223  Unnamed Tributary   0.004389    21.85    0.02      7.4     62.6
WSTLD-1   241  AI 119164 St Tamman 0.0000076   30.60    0.37     57.9    719.7
WSTLD-1   272  AI 157591 Carmelite 0.0000274   30.60    0.37     57.9    719.7
WSTLD-1   277  AI 33916 WTSO Beau  0.0013144   30.60    0.37     57.9    719.7
WSTLD-1   325  AI 93344 US Fish &  0.0000614   30.60    0.37     57.9    719.7
WSTLD-1   342  AI 43023 Regina Coe 0.0001068   30.60    0.37     57.9    719.7
WSTLD-1   344  AI 40796 Janie Brow 0.0000959   30.60    0.37     57.9    719.7
WSTLD-1   349  Cluster 1 Hwy190 BL 0.0000208   30.60    0.37     57.9    719.7
WSTLD-1   350  Cluster 2 Hwy190 BL 0.0004244   30.60    0.37     57.9    719.7
WSTLD-1   352  Cluster 3 Hwy190 BL 0.0008040   30.60    0.37     57.9    719.7
WSTLD-1   353  Cluster 4 Hwy190 BL 0.0000488   30.60    0.37     57.9    719.7
WSTLD-1   354  AI 43406 Bayou Laco 0.0002519   30.60    0.37     57.9    719.7
WSTLD-1   358  Cluster 5 Hwy190 BL 0.0001758   30.60    0.37     57.9    719.7
WSTLD-1   360  Cluster 6 Hwy190 BL 0.0012046   30.60    0.37     57.9    719.7
WSTLD-1   374  AI 97944 Hwy 34 Min 0.0000011   30.60    0.37     57.9    719.7
WSTLD-1   390  AI 157861 Kingdom H 0.0000411   30.60    0.37     57.9    719.7
WSTLD-1   391  AI 119750 Highway 4 0.0000120   30.60    0.37     57.9    719.7
WSTLD-1   442  AI 165334 H2O Syste 0.0000384   30.60    0.37     57.9    719.7
WSTLD-1   464  AI 94173 Southeaste 0.0032860   30.60    0.37     57.9    719.7
WSTLD-1   522  AI 114220 Folger Co 0.0002191   30.60    0.37     57.9    719.7
WSTLD-1   565  AI 157509 Feather & 0.0030669   30.60    0.37     57.9    719.7
WSTLD-1   596  AI 156133 Python Co 0.0000066   30.60    0.37     57.9    719.7
WSTLD-1   602  AI 101375 OW Bayou  0.0000011   30.60    0.37     57.9    719.7
WSTLD-1   651  AI 31079 Brier Lake 0.0021906   23.06    0.26     23.5    516.3
WSTLD-1   652  AI 156693 H2O Syste 0.0065719   30.60    0.37     57.9    719.7
WSTLD-1   654  AI 127495 A to Z Pr 0.0000931   30.60    0.37     57.9    719.7
WSTLD-1   655  AI 123821 Kevin J S 0.0000110   30.60    0.37     57.9    719.7
WSTLD-1   660  AI 157767 St Tamman 0.0000011   30.60    0.37     57.9    719.7
WSTLD-1   661  AI 157892 Mottie Mc 0.0000023   30.60    0.37     57.9    719.7
WSTLD-1   663  AI 119584 Tiller of 0.0000055   30.60    0.37     57.9    719.7
WSTLD-1   674  AI 41881 ICO Corp   0.0000044   30.60    0.37     57.9    719.7
WSTLD-1   677  AI 117076 LA Pines  0.0002738   30.60    0.37     57.9    719.7
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------*********----------*********----------*****---------*********
!          E#      DO      BOD 1         NBOD    NH3-N        NIT NIT   BOD 2
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WSTLD-2    12     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2    40     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   169     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   196     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   206     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   208     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   223     4.24      3.887  0.0   0.137    0.00    0.0   0.00     00000
WSTLD-2   241     2.00       23.0  0.0    21.5    0.00    0.0   0.00     00000
WSTLD-2   272     2.00       23.0  0.0    21.5    0.00    0.0   0.00     00000
WSTLD-2   277     2.00       11.5  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   325     2.00       23.0  0.0    21.5    0.00    0.0   0.00     00000
WSTLD-2   342     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   344     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   349     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   350     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   352     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   353     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   354     2.00       23.0  0.0    21.5    0.00    0.0   0.00     00000
WSTLD-2   358     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   360     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   374     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   390     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   391     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   442     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   464     2.00       11.5  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   522     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   565     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   596     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   602     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   651     2.00       11.5  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   652     5.00       11.5  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   654     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   655     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   660     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   661     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   663     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   674     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   677     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345789012345678901234567890123456789
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!        ****  ---------********---------*********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
ENDATA26
LOWER BC TEMPERATURE                        =  30.80
LOWER BC SALINITY                           =   7.02
LOWER BC CONSERVATIVE MATERIAL I (chloride) =   4128
LOWER BC CONSERVATIVE MATERIAL II (conduct) =  12216
LOWER BC DISSOLVED OXYGEN                   =   7.14
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =   5.012
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =   00000
LOWER BC CHLOROPHYLL A                      =   8.3
LOWER BC NBOD                               =   1.166
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ******************** ** ******** ******** ********
ENDATA28
SENSITIV BASEFLOW   30    -30
SENSITIV VELOCITY   30    -30
SENSITIV DEPTH      30    -30
SENSITIV DISPERSI   30    -30
SENSITIV REAERATI   30    -30
SENSITIV BOD DECA   30    -30
SENSITIV BOD SETT   30    -30
SENSITIV BOD2 DEC   30    -30
SENSITIV BOD2 SET   30    -30
SENSITIV TRANGE     30    -30
SENSITIV NBOD DEC   30    -30
SENSITIV NBOD SET   30    -30
SENSITIV BENTHAL    30    -30
SENSITIV TEMPERAT    2     -2
SENSITIV SALINITY   30    -30
SENSITIV CHLOR A    30    -30
SENSITIV INC INFL   30    -30
SENSITIV INC TEMP   30    -30
SENSITIV INC DO     30    -30
SENSITIV INC BOD    30    -30
SENSITIV INC BOD2   30    -30
SENSITIV INC NBOD   30    -30
SENSITIV HDW FLOW   30    -30
SENSITIV HDW TEMP   30    -30
```

```
SENSITIV HDW DO     30    -30
SENSITIV HDW BOD    30    -30
SENSITIV HDW BOD2   30    -30
SENSITIV HDW NBOD   30    -30
SENSITIV WSL FLOW   30    -30
SENSITIV WSL TEMP    2     -2
SENSITIV WSL DO     30    -30
SENSITIV WSL BOD    30    -30
SENSITIV WSL BOD2   30    -30
SENSITIV WSL NBOD   30    -30
SENSITIV OXR        30    -30
SENSITIV LBC TEMP    2     -2
SENSITIV LBC DO     30    -30
SENSITIV LBC BOD    30    -30
SENSITIV LBC BOD2   30    -30
SENSITIV LBC CHLO   30    -30
SENSITIV LBC NBOD   30    -30
SENSITIV NPS BOD    30    -30
SENSITIV NPS BOD2   30    -30
SENSITIV NPS NBOD   30    -30
ENDATA29
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
NUMBER OF PLOTS = 8
NUMBER OF REACHES IN PLOT 1 =  18
PLOT RCH 1  3  4  5  7  9  10 12 14 15 17 19 20 32 33 39 40 41
NUMBER OF REACHES IN PLOT 2 =   7
PLOT RCH 21 23 25 26 28 30 31
NUMBER OF REACHES IN PLOT 3 =   4
PLOT RCH 34 36 37 38
NUMBER OF REACHES IN PLOT 4 =   1
PLOT RCH 22
NUMBER OF REACHES IN PLOT 5 =   1
PLOT RCH 24
NUMBER OF REACHES IN PLOT 6 =   1
PLOT RCH 27
NUMBER OF REACHES IN PLOT 7 =   1
PLOT RCH 29
NUMBER OF REACHES IN PLOT 8 =   1
PLOT RCH 35
!--------1---------2---------3---------4---------5---------6---------7---------8
```

```
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
ENDATA30
OVERLAY 1 OVLBL.txt                        BAYOU LACOMBE
OVERLAY 2 OVLBBB.txt                       BIG BRANCH BAYOU
OVERLAY 3 OVLCB.txt                        CYPRESS BAYOU
OVERLAY 4 ovld8rch22.txt                   Hwy 434/I-12 ditch on BBB (D8, Rch 22)
OVERLAY 5 ovld9rch24.txt                   Folger ditch on BBB (D9, Rch 24)
OVERLAY 6 ovldarch27.txt                   Berry Todd Rd ditch on BBB (DA, Rch 27)
OVERLAY 7 ovldbrch29.txt                   Hwy 190 ditch on BBB (DB, Rch 29)
OVERLAY 8 ovldcrch35.txt                   Hwy 190 ditch on CB (DC, Rch 35)
ENDATA31
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
!NUMBER OF PLOTS = 7
!NUMBER OF REACHES IN PLOT 1 =   1
!PLOT RCH 2
!NUMBER OF REACHES IN PLOT 2 =   1
!PLOT RCH 6
!NUMBER OF REACHES IN PLOT 3 =   1
!PLOT RCH 8
!NUMBER OF REACHES IN PLOT 4 =   1
!PLOT RCH 11
!NUMBER OF REACHES IN PLOT 5 =   1
!PLOT RCH 13
!NUMBER OF REACHES IN PLOT 6 =   1
!PLOT RCH 16
!NUMBER OF REACHES IN PLOT 7 =   1
!PLOT RCH 18
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
!ENDATA30
!OVERLAY 1 ovld1rch2.txt                    Hwy 36 ditch on BL (D1, Rch 2)
!OVERLAY 2 ovld2rch6.txt                    SNG ditch on BL (D2, Rch 6)
!OVERLAY 3 ovld3rch8.txt                    Hwy 434/I-12 ditch on BL (D3, Rch 8)
!OVERLAY 4 ovld4rch11.txt                   Keller Barn ditch on BL (D4, Rch 11)
!OVERLAY 5 ovld5rch13.txt                   Beau Village ditch on BL (D5, Rch 13)
!OVERLAY 6 ovld6rch16.txt                   Hwy 190 ditch on BL (D6, Rch 16)
!OVERLAY 7 ovld7rch18.txt                   Hwy 434/190 ditch on BL (D7, Rch 18)
!ENDATA31
```

BAYOU LACOMBE SUMMER PROJECTION OUTPUT DATA SET

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is \\Alpha_nt\owreng\Personal_Folders\Bryan Hitt\Bayou Lacombe\Input Files\Summer Projection\proj lacombe 4 & 5 DO sumr.txt
Output produced at 09:17 on 09/27/2011

$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$

CARD TYPE       CONTROL TITLES

TITLE01         BAYOU LACOMBE WATERSHED MODEL
TITLE02         Sumr 4,5 DO curr criteria
CONTROL   YES   METRIC UNITS
ENDATA01

$$$ DATA TYPE 2 (MODEL OPTIONS) $$$

CARD TYPE       MODEL OPTION

MODOPT     NO   TEMPERATURE
MODOPT    YES   SALINITY
MODOPT    YES   CONSERVATIVE MATERIAL  I = CHLORIDE                  IN  mg/L     chloride
MODOPT    YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN  uS/cm    conduct
MODOPT    YES   DISSOLVED OXYGEN
MODOPT    YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT     NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT    YES   NBOD OXYGEN DEMAND
MODOPT     NO   PHOSPHORUS
MODOPT     NO   CHLOROPHYLL A
MODOPT     NO   MACROPHYTES
MODOPT     NO   COLIFORM
ENDATA02

$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =         0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =         3.00000 (inhibit all rates but SOD)
PROGRAM         DISPERSION EQUATION               =         1.00000 (values entered as a constant)
PROGRAM         OCEAN EXCHANGE RATIO              =         1.00000
PROGRAM         TIDE HEIGHT                       =         0.15200 meters
PROGRAM         TIDAL PERIOD                      =        25.00000 hours
PROGRAM         PERIOD OF TIDAL RISE              =        12.50000 hours
PROGRAM         K2 MAXIMUM                        =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =         2.00000 (values entered as per day)
ENDATA03

$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA05

$$$ DATA TYPE 6 (ALGAE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA06

$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                                      BEGIN         END     ELEM    REACH     ELEMS   BEGIN    END
CARD TYPE  REACH  ID  NAME                            REACH        REACH   LENGTH   LENGTH    PER RCH   ELEM   ELEM
                                                         km           km       km       km                NUM    NUM

REACH ID      1   BL  BL01 TO Hwy 36 Ditch BL         31.00  TO   30.90   0.0100     0.10      10        1     10
REACH ID      2   D1  Hwy 36 Ditch BL                  4.20  TO    0.00   0.1000     4.20      42       11     52
REACH ID      3   BL  Hwy 36 Ditch BL to BL02         30.90  TO   25.20   0.1000     5.70      57       53    109
REACH ID      4   BL  BL02 to BL03                    25.20  TO   20.30   0.1000     4.90      49      110    158
```

REACH ID	5	BL	BL03 to SNG Ditch	20.30	TO	19.40	0.1000	0.90	9	159	167
REACH ID	6	D2	SNG Ditch	2.10	TO	0.00	0.1000	2.10	21	168	188
REACH ID	7	BL	SNG Ditch to Hwy434/I-12 Dich BL	19.40	TO	19.10	0.1000	0.30	3	189	191
REACH ID	8	D3	Hwy 434/I-12 Ditch BL	3.00	TO	0.00	0.1000	3.00	30	192	221
REACH ID	9	BL	Hwy434/I-12DitchBL to BL04	19.10	TO	18.90	0.1000	0.20	2	222	223
REACH ID	10	BL	BL04 to Keller Barn Ditch	18.90	TO	17.30	0.1000	1.60	16	224	239
REACH ID	11	D4	Keller Barn Ditch	0.90	TO	0.00	0.1000	0.90	9	240	248
REACH ID	12	BL	KellerBarnDitchToBeauVillageDich	17.30	TO	14.60	0.1000	2.70	27	249	275
REACH ID	13	D5	Beau Village Ditch	3.00	TO	0.00	0.1000	3.00	30	276	305
REACH ID	14	BL	Beau Village Ditch to BL05	14.60	TO	13.20	0.1000	1.40	14	306	319
REACH ID	15	BL	BL05 to Hwy 190 Ditch BL	13.20	TO	11.10	0.1000	2.10	21	320	340
REACH ID	16	D6	Hwy 190 Ditch BL	2.20	TO	0.00	0.1000	2.20	22	341	362
REACH ID	17	BL	Hwy190DitchBLtoHwy434/190DitchBL	11.10	TO	11.00	0.0100	0.10	10	363	372
REACH ID	18	D7	Hwy 434/190 Ditch BL	2.20	TO	0.00	0.1000	2.20	22	373	394
REACH ID	19	BL	Hwy 434/190 Ditch BL to BL06	11.00	TO	10.90	0.0100	0.10	10	395	404
REACH ID	20	BL	BL06 to confluence with BBB	10.90	TO	8.80	0.1000	2.10	21	405	425
REACH ID	21	BB	BB03 to Hwy 434/I-12 ditch BBB	5.20	TO	5.10	0.0100	0.10	10	426	435
REACH ID	22	D8	Hwy 434/I-12 Ditch BBB	6.50	TO	0.00	0.1000	6.50	65	436	500
REACH ID	23	BB	Hwy434/I-12DitchBBBtoFolgerDitch	5.10	TO	4.90	0.0100	0.20	20	501	520
REACH ID	24	D9	Folger Ditch	0.40	TO	0.00	0.1000	0.40	4	521	524
REACH ID	25	BB	Folger Ditch to BB02	4.90	TO	2.00	0.1000	2.90	29	525	553
REACH ID	26	BB	BB02 to Berry Todd Rd Ditch	2.00	TO	1.90	0.0100	0.10	10	554	563
REACH ID	27	DA	Berry Todd Rd Ditch	2.00	TO	0.00	0.1000	2.00	20	564	583
REACH ID	28	BB	BerryToddRdDitchtoHwy190DitchBBB	1.90	TO	0.80	0.1000	1.10	11	584	594
REACH ID	29	DB	Hwy 190 Ditch BBB	1.30	TO	0.00	0.1000	1.30	13	595	607
REACH ID	30	BB	Hwy 190 Ditch BBB to BB01	0.80	TO	0.30	0.1000	0.50	5	608	612
REACH ID	31	BB	BB01toConfluenceWithBayouLacombe	0.30	TO	0.00	0.1000	0.30	3	613	615
REACH ID	32	BL	Big Branch Bayou to BL07	8.80	TO	8.70	0.0100	0.10	10	616	625
REACH ID	33	BL	BL07to confluence w/CypressBayou	8.70	TO	6.30	0.1000	2.40	24	626	649
REACH ID	34	CB	CB03 to Hwy 190 ditch CB	4.90	TO	4.60	0.1000	0.30	3	650	652
REACH ID	35	DC	Hwy 190 Ditch CB	1.60	TO	0.00	0.1000	1.60	16	653	668
REACH ID	36	CB	Hwy 190 Ditch CB to CB02	4.60	TO	2.90	0.1000	1.70	17	669	685
REACH ID	37	CB	CB02 to CB01	2.90	TO	0.20	0.1000	2.70	27	686	712
REACH ID	38	CB	CB01to confluence w/BayouLacombe	0.20	TO	0.00	0.1000	0.20	2	713	714
REACH ID	39	BL	Cypress Bayou to BL08	6.30	TO	6.10	0.1000	0.20	2	715	716
REACH ID	40	BL	BL08 to BL09	6.10	TO	0.30	0.1000	5.80	58	717	774
REACH ID	41	BL	BL09 to Lake Pontchartrain	0.30	TO	0.00	0.1000	0.30	3	775	777

ENDATA08

$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE	REACH	ID	WIDTH "A"	WIDTH "B"	WIDTH "C"	DEPTH "D"	DEPTH "E"	DEPTH "F"	SLOPE	MANNINGS "N"
HYDR-1	1	BL	0.000	0.000	5.790	0.000	0.000	0.400	0.00000	0.020
HYDR-1	2	D1	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	3	BL	0.000	0.000	5.790	0.000	0.000	0.400	0.00000	0.020
HYDR-1	4	BL	0.000	0.000	6.100	0.000	0.000	0.180	0.00000	0.020
HYDR-1	5	BL	0.000	0.000	7.160	0.000	0.000	0.170	0.00000	0.020
HYDR-1	6	D2	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	7	BL	0.000	0.000	7.160	0.000	0.000	0.170	0.00000	0.020
HYDR-1	8	D3	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	9	BL	0.000	0.000	7.160	0.000	0.000	0.170	0.00000	0.020
HYDR-1	10	BL	0.000	0.000	9.300	0.000	0.000	0.420	0.00000	0.020
HYDR-1	11	D4	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	12	BL	0.000	0.000	9.300	0.000	0.000	0.420	0.00000	0.020
HYDR-1	13	D5	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	14	BL	0.000	0.000	9.300	0.000	0.000	0.420	0.00000	0.020
HYDR-1	15	BL	0.000	0.000	25.300	0.000	0.000	3.600	0.00000	0.020
HYDR-1	16	D6	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	17	BL	0.000	0.000	25.300	0.000	0.000	3.600	0.00000	0.020
HYDR-1	18	D7	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	19	BL	0.000	0.000	25.300	0.000	0.000	3.600	0.00000	0.020
HYDR-1	20	BL	0.000	0.000	44.200	0.000	0.000	3.150	0.00000	0.020
HYDR-1	21	BB	0.000	0.000	3.660	0.000	0.000	0.390	0.00000	0.020
HYDR-1	22	D8	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	23	BB	0.000	0.000	3.660	0.000	0.000	0.390	0.00000	0.020
HYDR-1	24	D9	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	25	BB	0.000	0.000	3.660	0.000	0.000	0.390	0.00000	0.020
HYDR-1	26	BB	0.000	0.000	15.240	0.000	0.000	1.120	0.00000	0.020
HYDR-1	27	DA	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	28	BB	0.000	0.000	15.240	0.000	0.000	1.120	0.00000	0.020
HYDR-1	29	DB	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	30	BB	0.000	0.000	15.240	0.000	0.000	1.120	0.00000	0.020
HYDR-1	31	BB	0.000	0.000	39.620	0.000	0.000	2.130	0.00000	0.020
HYDR-1	32	BL	0.000	0.000	82.300	0.000	0.000	2.560	0.00000	0.020
HYDR-1	33	BL	0.000	0.000	82.300	0.000	0.000	2.560	0.00000	0.020
HYDR-1	34	CB	0.000	0.000	4.690	0.000	0.000	0.290	0.00000	0.020
HYDR-1	35	DC	0.000	0.000	1.000	0.000	0.000	0.050	0.00000	0.020
HYDR-1	36	CB	0.000	0.000	4.690	0.000	0.000	0.290	0.00000	0.020
HYDR-1	37	CB	0.000	0.000	14.020	0.000	0.000	1.390	0.00000	0.020
HYDR-1	38	CB	0.000	0.000	35.360	0.000	0.000	2.730	0.00000	0.020
HYDR-1	39	BL	0.000	0.000	74.680	0.000	0.000	3.030	0.00000	0.020
HYDR-1	40	BL	0.000	0.000	74.680	0.000	0.000	3.030	0.00000	0.020

```
HYDR-1       41   BL       0.000       0.000      99.360       0.000       0.000       1.800     0.00000   0.020
ENDATA09

$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                         RANGE        "A"            "B"            "C"            "D"

HYDR         1   BL      0.00        0.500          0.000          0.000          0.000
HYDR         2   D1      0.00        0.000          0.000          0.000          0.000
HYDR         3   BL      0.00        0.500          0.000          0.000          0.000
HYDR         4   BL      0.00        0.500          0.000          0.000          0.000
HYDR         5   BL      0.00        0.500          0.000          0.000          0.000
HYDR         6   D2      0.00        0.000          0.000          0.000          0.000
HYDR         7   BL      0.00        0.500          0.000          0.000          0.000
HYDR         8   D3      0.00        0.000          0.000          0.000          0.000
HYDR         9   BL      0.00        0.500          0.000          0.000          0.000
HYDR        10   BL      0.25        0.500          0.000          0.000          0.000
HYDR        11   D4      0.00        0.000          0.000          0.000          0.000
HYDR        12   BL      0.25        0.500          0.000          0.000          0.000
HYDR        13   D5      0.00        0.000          0.000          0.000          0.000
HYDR        14   BL      0.50        0.500          0.000          0.000          0.000
HYDR        15   BL      0.75        0.500          0.000          0.000          0.000
HYDR        16   D6      0.00        0.000          0.000          0.000          0.000
HYDR        17   BL      0.75        0.500          0.000          0.000          0.000
HYDR        18   D7      0.00        0.000          0.000          0.000          0.000
HYDR        19   BL      0.75        0.500          0.000          0.000          0.000
HYDR        20   BL      1.00        2.000          0.000          0.000          0.000
HYDR        21   BB      0.25        0.500          0.000          0.000          0.000
HYDR        22   D8      0.00        0.000          0.000          0.000          0.000
HYDR        23   BB      0.50        1.000          0.000          0.000          0.000
HYDR        24   D9      0.00        0.000          0.000          0.000          0.000
HYDR        25   BB      0.75        2.000          0.000          0.000          0.000
HYDR        26   BB      1.00        2.500          0.000          0.000          0.000
HYDR        27   DA      0.00        0.000          0.000          0.000          0.000
HYDR        28   BB      1.00        3.500          0.000          0.000          0.000
HYDR        29   DB      0.00        0.000          0.000          0.000          0.000
HYDR        30   BB      1.00        5.500          0.000          0.000          0.000
HYDR        31   BB      1.00        7.500          0.000          0.000          0.000
HYDR        32   BL      1.00        3.000          0.000          0.000          0.000
HYDR        33   BL      1.00        4.000          0.000          0.000          0.000
HYDR        34   CB      0.50        1.000          0.000          0.000          0.000
HYDR        35   DC      0.00        0.000          0.000          0.000          0.000
HYDR        36   CB      0.75        3.500          0.000          0.000          0.000
HYDR        37   CB      1.00        5.500          0.000          0.000          0.000
HYDR        38   CB      1.00        7.500          0.000          0.000          0.000
HYDR        39   BL      1.00        5.000          0.000          0.000          0.000
HYDR        40   BL      1.00        6.000          0.000          0.000          0.000
HYDR        41   BL      1.00        7.500          0.000          0.000          0.000
ENDATA10

$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$

CARD TYPE      REACH  ID        TEMP      SALIN        DO       NH3     NO3+2      PHOS     CHL A     MACRO

INITIAL            1   BL       28.40       0.01      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            2   D1       28.40       0.01      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            3   BL       28.40       0.01      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            4   BL       28.40       0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            5   BL       28.40       0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            6   D2       28.40       0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            7   BL       28.40       0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            8   D3       28.40       0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL            9   BL       28.40       0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL           10   BL       28.40       0.02      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL           11   D4       28.40       0.02      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL           12   BL       28.40       0.02      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL           13   D5       28.40       0.02      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL           14   BL       28.40       0.02      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL           15   BL       28.40       0.36      5.00      0.00      0.00      0.00     10.00      0.00
INITIAL           16   D6       28.40       0.36      4.00      0.00      0.00      0.00      0.00      0.00
INITIAL           17   BL       28.40       0.36      4.00      0.00      0.00      0.00     10.00      0.00
INITIAL           18   D7       28.40       0.36      4.00      0.00      0.00      0.00      0.00      0.00
INITIAL           19   BL       30.80       0.36      4.00      0.00      0.00      0.00     10.00      0.00
INITIAL           20   BL       30.80       4.78      4.00      0.00      0.00      0.00     10.00      0.00
INITIAL           21   BB       28.40       0.00      4.00      0.00      0.00      0.00      2.60      0.00
INITIAL           22   D8       28.40       0.00      4.00      0.00      0.00      0.00      0.00      0.00
INITIAL           23   BB       28.40       0.00      4.00      0.00      0.00      0.00      2.60      0.00
INITIAL           24   D9       28.40       0.00      4.00      0.00      0.00      0.00      0.00      0.00
INITIAL           25   BB       28.40       0.00      4.00      0.00      0.00      0.00      2.60      0.00
INITIAL           26   BB       28.40       0.35      4.00      0.00      0.00      0.00     10.00      0.00
INITIAL           27   DA       28.40       0.35      4.00      0.00      0.00      0.00      0.00      0.00
INITIAL           28   BB       28.40       0.35      4.00      0.00      0.00      0.00     10.00      0.00
INITIAL           29   DB       28.40       0.35      4.00      0.00      0.00      0.00      0.00      0.00
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INITIAL	30	BB	30.80	0.35	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	31	BB	30.80	4.19	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	32	BL	30.80	4.08	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	33	BL	30.80	4.08	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	34	CB	30.80	0.14	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	35	DC	30.80	0.14	4.00	0.00	0.00	0.00	0.00	0.00
INITIAL	36	CB	30.80	0.14	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	37	CB	30.80	3.82	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	38	CB	30.80	5.34	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	39	BL	30.80	5.26	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	40	BL	30.80	5.26	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	41	BL	30.80	7.05	4.00	0.00	0.00	0.00	10.00	0.00

ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$

CARD TYPE	RCH NUM	RCH ID	K2 OPT	K2 "A"	K2 "B"	K2 "C"	BKGRND SOD g/m²/d	BOD DECAY per day	BOD SETT m/d	BOD CONV TO SOD	ANAER BOD2 DECAY per day	BOD2 DECAY per day	BOD2 SETT m/d	BOD2 CONV TO SOD	ANAER BOD2 DECAY per day
COEF-1	1	BL	11 TEXAS	0.000	0.000	0.000	0.000	0.034	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	D1	15 LOUISIANA	0.000	0.000	0.000	0.625	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	BL	11 TEXAS	0.000	0.000	0.000	0.313	0.034	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	BL	11 TEXAS	0.000	0.000	0.000	0.313	0.031	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	BL	11 TEXAS	0.000	0.000	0.000	2.188	0.038	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	D2	15 LOUISIANA	0.000	0.000	0.000	0.625	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	BL	11 TEXAS	0.000	0.000	0.000	2.188	0.038	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	D3	15 LOUISIANA	0.000	0.000	0.000	0.625	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	BL	11 TEXAS	0.000	0.000	0.000	2.188	0.038	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	BL	11 TEXAS	0.000	0.000	0.000	1.688	0.029	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	11	D4	15 LOUISIANA	0.000	0.000	0.000	0.188	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	BL	11 TEXAS	0.000	0.000	0.000	1.688	0.029	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	D5	15 LOUISIANA	0.000	0.000	0.000	0.188	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	BL	11 TEXAS	0.000	0.000	0.000	1.688	0.029	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	15	BL	3 OCONNER-DOBB	0.000	0.000	0.000	1.125	0.045	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	16	D6	15 LOUISIANA	0.000	0.000	0.000	0.375	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	17	BL	3 OCONNER-DOBB	0.000	0.000	0.000	2.250	0.045	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	18	D7	15 LOUISIANA	0.000	0.000	0.000	0.375	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	19	BL	3 OCONNER-DOBB	0.000	0.000	0.000	2.250	0.045	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	20	BL	3 OCONNER-DOBB	0.000	0.000	0.000	2.625	0.041	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	21	BB	11 TEXAS	0.000	0.000	0.000	0.500	0.070	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	22	D8	15 LOUISIANA	0.000	0.000	0.000	0.125	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	23	BB	11 TEXAS	0.000	0.000	0.000	0.500	0.070	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	24	D9	15 LOUISIANA	0.000	0.000	0.000	0.125	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	25	BB	11 TEXAS	0.000	0.000	0.000	1.500	0.070	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	26	BB	3 OCONNER-DOBB	0.000	0.000	0.000	1.750	0.053	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	27	DA	15 LOUISIANA	0.000	0.000	0.000	0.125	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	28	BB	3 OCONNER-DOBB	0.000	0.000	0.000	1.750	0.053	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	29	DB	15 LOUISIANA	0.000	0.000	0.000	0.125	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	30	BB	3 OCONNER-DOBB	0.000	0.000	0.000	1.750	0.053	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	31	BB	3 OCONNER-DOBB	0.000	0.000	0.000	1.750	0.049	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	32	BL	3 OCONNER-DOBB	0.000	0.000	0.000	4.375	0.048	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	33	BL	3 OCONNER-DOBB	0.000	0.000	0.000	1.250	0.048	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	34	CB	11 TEXAS	0.000	0.000	0.000	1.500	0.069	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	35	DC	15 LOUISIANA	0.000	0.000	0.000	0.125	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	36	CB	11 TEXAS	0.000	0.000	0.000	1.500	0.069	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	37	CB	3 OCONNER-DOBB	0.000	0.000	0.000	1.500	0.052	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	38	CB	3 OCONNER-DOBB	0.000	0.000	0.000	0.000	0.054	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	39	BL	3 OCONNER-DOBB	0.000	0.000	0.000	1.250	0.051	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	40	BL	3 OCONNER-DOBB	0.000	0.000	0.000	1.688	0.051	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	41	BL	3 OCONNER-DOBB	0.000	0.000	0.000	0.000	0.063	0.050	0.000	0.000	0.000	0.000	0.000	0.000

ENDATA12

$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$

CARD TYPE	REACH	ID	NBOD DECA	NBOD SETT	ORGN CONV TO NH3 SRCE	NH3 DECA	NH3 SRCE	PHOS SRCE	DENIT RATE
COEF-2	1	BL	0.005	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	2	D1	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	3	BL	0.005	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	4	BL	0.595	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	5	BL	0.041	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	6	D2	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	7	BL	0.041	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	8	D3	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	9	BL	0.041	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	10	BL	0.070	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	11	D4	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	12	BL	0.070	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	13	D5	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	14	BL	0.070	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	15	BL	0.052	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	16	D6	0.030	0.050	0.000	0.000	0.000	0.000	0.000

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COEF-2          17  BL      0.052     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          18  D7      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          19  BL      0.052     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          20  BL      0.089     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          21  BB      0.595     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          22  D8      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          23  BB      0.595     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          24  D9      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          25  BB      0.595     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          26  BB      0.106     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          27  DA      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          28  BB      0.106     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          29  DB      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          30  BB      0.106     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          31  BB      0.042     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          32  BL      0.129     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          33  BL      0.129     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          34  CB      0.136     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          35  DC      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          36  CB      0.136     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          37  CB      0.054     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          38  CB      0.080     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          39  BL      0.064     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          40  BL      0.064     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          41  BL      0.101     0.050     0.000       0.000     0.000     0.000     0.000
ENDATA13

$$$ DATA TYPE 14 (ALGAE AND MACROPHYTE COEFFICIENTS) $$$

CARD TYPE      REACH  ID       SECCHI    ALGAE:     ALGAE    ALG CONV     ALGAE     ALGAE     MACRO     MACRO
                                DEPTH     CHL A      SETT     TO SOD       GROW      RESP      GROW      RESP   SHADING

ENDATA14

$$$ DATA TYPE 15 (COLIFORM AND NONCONSERVATIVE COEFFICIENTS) $$$

CARD TYPE      REACH  ID    COLIFORM       NCM       NCM    NCM CONV
                            DIE-OFF     DECAY      SETT     TO SOD

ENDATA15

$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE      REACH  ID       OUTFLOW      INFLOW      TEMP     SALIN      CM-I     CM-II   IN/DIST  OUT/DIST

INCR-1           1   BL      0.00000     0.17996     20.85      0.01      5.60     51.60   1.79958   0.00000
INCR-1           2   D1      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           3   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           4   BL      0.00000     0.04188     21.28      0.00      5.50     56.00   0.00855   0.00000
INCR-1           5   BL      0.00000     0.04326     22.03      0.00      5.70     58.04   0.04807   0.00000
INCR-1           6   D2      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           7   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           8   D3      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           9   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          10   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          11   D4      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          12   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          13   D5      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          14   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          15   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          16   D6      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          17   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          18   D7      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          19   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          20   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          21   BB      0.00000     0.14751     21.66      0.00     10.40     95.61   1.47505   0.00000
INCR-1          22   D8      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          23   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          24   D9      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          25   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          26   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          27   DA      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          28   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          29   DB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          30   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          31   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          32   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          33   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          34   CB      0.00000     0.18882     23.25      0.14     22.50    286.90   0.62941   0.00000
INCR-1          35   DC      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          36   CB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          37   CB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          38   CB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          39   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
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INCR-1          40   BL       0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          41   BL       0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
ENDATA16

$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

INCR-2           1   BL        5.00      1.91      0.00      0.00      0.00       0.00
INCR-2           2   D1        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2           3   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2           4   BL        5.00      1.65      0.03      0.00      0.00       0.00
INCR-2           5   BL        5.00      2.99      0.49      0.00      0.00       0.00
INCR-2           6   D2        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2           7   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2           8   D3        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2           9   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          10   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          11   D4        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          12   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          13   D5        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          14   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          15   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          16   D6        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          17   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          18   D7        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          19   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          20   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          21   BB        4.00      0.67      0.01      0.00      0.00       0.00
INCR-2          22   D8        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          23   BB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          24   D9        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          25   BB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          26   BB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          27   DA        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          28   BB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          29   DB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          30   BB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          31   BB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          32   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          33   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          34   CB        4.00      4.10      0.64      0.00      0.00       0.00
INCR-2          35   DC        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          36   CB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          37   CB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          38   CB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          39   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          40   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          41   BL        0.00      0.00      0.00      0.00      0.00       0.00
ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

 CARD TYPE      REACH  ID         PHOS     CHL A      COLI       NCM

ENDATA18

$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$

CARD TYPE      REACH  ID       BOD#1      NBOD       COLI       NCM        DO     BOD#2

NONPOINT         1   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT         2   D1        0.08      0.02      0.00      0.00      0.00       0.00
NONPOINT         3   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT         4   BL       31.25      6.25      0.00      0.00      0.00       0.00
NONPOINT         5   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT         6   D2        0.04      0.01      0.00      0.00      0.00       0.00
NONPOINT         7   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT         8   D3        0.06      0.02      0.00      0.00      0.00       0.00
NONPOINT         9   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT        10   BL       18.75      9.75      0.00      0.00      0.00       0.00
NONPOINT        11   D4        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT        12   BL       31.88      9.75      0.00      0.00      0.00       0.00
NONPOINT        13   D5        0.02      0.00      0.00      0.00      0.00       0.00
NONPOINT        14   BL       18.75      9.75      0.00      0.00      0.00       0.00
NONPOINT        15   BL       93.75     33.75      0.00      0.00      0.00       0.00
NONPOINT        16   D6        0.03      0.01      0.00      0.00      0.00       0.00
NONPOINT        17   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT        18   D7        0.03      0.01      0.00      0.00      0.00       0.00
NONPOINT        19   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT        20   BL      112.50      0.00      0.00      0.00      0.00       0.00
NONPOINT        21   BB        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT        22   D8        0.03      0.01      0.00      0.00      0.00       0.00
NONPOINT        23   BB        0.00      0.00      0.00      0.00      0.00       0.00
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NONPOINT         24   D9        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         25   BB        6.25      0.00      0.00      0.00      0.00      0.00
NONPOINT         26   BB        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         27   DA        0.01      0.00      0.00      0.00      0.00      0.00
NONPOINT         28   BB        8.75      0.00      0.00      0.00      0.00      0.00
NONPOINT         29   DB        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         30   BB        8.75      0.00      0.00      0.00      0.00      0.00
NONPOINT         31   BB       97.50     50.00      0.00      0.00      0.00      0.00
NONPOINT         32   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         33   BL      250.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         34   CB        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         35   DC        0.01      0.00      0.00      0.00      0.00      0.00
NONPOINT         36   CB       16.25      0.00      0.00      0.00      0.00      0.00
NONPOINT         37   CB       37.50      0.00      0.00      0.00      0.00      0.00
NONPOINT         38   CB       12.50      0.00      0.00      0.00      0.00      0.00
NONPOINT         39   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         40   BL     1687.50    562.50      0.00      0.00      0.00      0.00
NONPOINT         41   BL      250.00      0.00      0.00      0.00      0.00      0.00
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                  UNIT     FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                        m³/s      cfs   deg C      ppt      mg/L     uS/cm

HDWTR-1           1     BAYOU LACOMBE           0   0.09200    3.249   28.40     0.01     5.600    51.600   0.00
HDWTR-1          11     Ditch #1 Hwy 36 BL      0   0.00028    0.010   28.40     0.01     5.600    51.600   0.00
HDWTR-1         168     Ditch #2 SNG ditch      0   0.00028    0.010   28.40     0.01     5.600    51.600   0.00
HDWTR-1         192     Ditch#3Hwy434/I-12BL    0   0.00028    0.010   28.40     0.01     5.600    51.600   0.00
HDWTR-1         240     Ditch #4 Keller Barn    0   0.00028    0.010   28.40     0.01     5.600    51.600   0.00
HDWTR-1         276     Ditch#5 Beau Village    0   0.00028    0.010   28.40     0.01     5.600    51.600   0.00
HDWTR-1         341     Ditch #6 Hwy 190 BL     0   0.00028    0.010   28.40     0.01     5.600    51.600   0.00
HDWTR-1         373     Ditch#7 Hwy434/190BL    0   0.00028    0.010   28.40     0.01     5.600    51.600   0.00
HDWTR-1         426     Big Branch Bayou        0   0.00900    0.318   28.40     0.00    10.400    95.610   0.00
HDWTR-1         436     Dich#8Hwy434/I-12BBB    0   0.00028    0.010   28.40     0.00    10.400    95.610   0.00
HDWTR-1         521     Ditch #9 Folger         0   0.00028    0.010   28.40     0.00    10.400    95.610   0.00
HDWTR-1         564     Ditch A BerryTodd Rd    0   0.00028    0.010   28.40     0.00    10.400    95.610   0.00
HDWTR-1         595     Ditch B Hwy 190 BBB     0   0.00028    0.010   28.40     0.00    10.400    95.610   0.00
HDWTR-1         650     Cypress Bayou           0   0.02300    0.812   30.80     0.14    22.500   286.900   0.00
HDWTR-1         653     Ditch C Hwy 190 CB      0   0.00028    0.010   30.80     0.14    22.500   286.900   0.00
ENDATA20

$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE     ELEMENT   NAME                        DO     BOD#1     NBOD                          BOD#2
                                                   mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     BAYOU LACOMBE             5.00      1.91      0.00      0.00      0.00      0.00
HDWTR-2          11     Ditch #1 Hwy 36 BL        5.00      2.75      1.25      0.00      0.00      0.00
HDWTR-2         168     Ditch #2 SNG ditch        5.00      2.75      1.25      0.00      0.00      0.00
HDWTR-2         192     Ditch#3Hwy434/I-12BL      5.00      2.75      1.25      0.00      0.00      0.00
HDWTR-2         240     Ditch #4 Keller Barn      5.00      0.82      0.38      0.00      0.00      0.00
HDWTR-2         276     Ditch#5 Beau Village      5.00      0.82      0.38      0.00      0.00      0.00
HDWTR-2         341     Ditch #6 Hwy 190 BL       4.00      1.65      0.75      0.00      0.00      0.00
HDWTR-2         373     Ditch#7 Hwy434/190BL      4.00      1.65      0.75      0.00      0.00      0.00
HDWTR-2         426     Big Branch Bayou          4.00      0.67      0.01      0.00      0.00      0.00
HDWTR-2         436     Dich#8Hwy434/I-12BBB      4.00      0.55      0.25      0.00      0.00      0.00
HDWTR-2         521     Ditch #9 Folger           4.00      0.55      0.25      0.00      0.00      0.00
HDWTR-2         564     Ditch A BerryTodd Rd      4.00      0.55      0.25      0.00      0.00      0.00
HDWTR-2         595     Ditch B Hwy 190 BBB       4.00      0.55      0.25      0.00      0.00      0.00
HDWTR-2         650     Cypress Bayou             4.00      4.10      0.64      0.00      0.00      0.00
HDWTR-2         653     Ditch C Hwy 190 CB        4.00      0.55      0.25      0.00      0.00      0.00
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                       PHOS     CHL A      COLI       NCM
                                                   mg/L      mg/L      mg/L      mg/L

ENDATA22

$$$ DATA TYPE 23 (JUNCTION DATA) $$$

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

JUNCTION          53      10      30.90  Hwy 36 ditch BL confluence with Bayou Lacombe
JUNCTION         189     167      19.40  Ditch #2-SNG Ditch confluence with Bayou Lacombe
JUNCTION         222     191      19.10  Ditch #3-Hwy 434/I-12 Ditch BL confluence with Bayou Lacombe
JUNCTION         249     239      17.30  Ditch #4-Keller Barn Ditch confluence with Bayou Lacombe
JUNCTION         306     275      14.60  Ditch #5-Beau Village Ditch confluence with Bayou Lacombe
JUNCTION         363     340      11.10  Ditch #6-Hwy 190 Ditch BL confluence with Bayou Lacombe
JUNCTION         395     372      11.00  Ditch #7-Hwy 434/190 Ditch BL confluence with Bayou Lacombe
JUNCTION         501     435       5.10  Ditch #8-Hwy 434/I-12 Ditch BBB confluence w/Big BranchBayou
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JUNCTION         525     520       4.90  Ditch #9-Folger Ditch confluence with Big Branch Bayou
JUNCTION         584     563       1.90  Ditch A-Berry Todd Rd Ditch confluence with Big Branch Bayou
JUNCTION         608     594       0.80  Ditch B-Hwy 190 Ditch BBB confluence with Big Branch Bayou
JUNCTION         616     425       8.80  Big Branch Bayou confluence with Bayou Lacombe
JUNCTION         669     652       4.60  Ditch C-Hwy 190 Ditch CB confluence with Cypress Bayou
JUNCTION         715     649       6.30  Cypress Bayou confluence with Bayou Lacombe
ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE  ELEMENT    RKILO  NAME                      FLOW       FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                       m³/s        cfs      MGD   deg C      ppt      mg/L     uS/cm

WSTLD-1       12       4.10  AI 138040 Animal Se    0.00022    0.00774    0.005   30.60     0.37    57.900   719.700
WSTLD-1       40       1.30  AI 120304 St Tamman    0.00013    0.00464    0.003   30.60     0.37    57.900   719.700
WSTLD-1      169       2.00  AI 94746 Southern N    0.00014    0.00483    0.003   30.60     0.37    57.900   719.700
WSTLD-1      196       2.60  AI 155402 Axonic Ne    0.00005    0.00194    0.001   30.60     0.37    57.900   719.700
WSTLD-1      206       1.60  Cluster1Hwy434I12BL    0.00028    0.00984    0.006   30.60     0.37    57.900   719.700
WSTLD-1      208       1.40  Cluster2Hwy434I12BL    0.00057    0.02023    0.013   30.60     0.37    57.900   719.700
WSTLD-1      223      19.00  Unnamed Tributary      0.00439    0.15498    0.100   21.85     0.02     7.400    62.600
WSTLD-1      241       0.80  AI 119164 St Tamman    0.00001    0.00027    0.000   30.60     0.37    57.900   719.700
WSTLD-1      272      15.00  AI 157591 Carmelite    0.00003    0.00097    0.001   30.60     0.37    57.900   719.700
WSTLD-1      277       2.90  AI 33916 WTSO Beau     0.00131    0.04641    0.030   30.60     0.37    57.900   719.700
WSTLD-1      325      12.70  AI 93344 US Fish &     0.00006    0.00217    0.001   30.60     0.37    57.900   719.700
WSTLD-1      342       2.10  AI 43023 Regina Coe    0.00011    0.00377    0.002   30.60     0.37    57.900   719.700
WSTLD-1      344       1.90  AI 40796 Janie Brow    0.00010    0.00339    0.002   30.60     0.37    57.900   719.700
WSTLD-1      349       1.40  Cluster 1 Hwy190 BL    0.00002    0.00073    0.000   30.60     0.37    57.900   719.700
WSTLD-1      350       1.30  Cluster 2 Hwy190 BL    0.00042    0.01499    0.010   30.60     0.37    57.900   719.700
WSTLD-1      352       1.10  Cluster 3 Hwy190 BL    0.00080    0.02839    0.018   30.60     0.37    57.900   719.700
WSTLD-1      353       1.00  Cluster 4 Hwy190 BL    0.00005    0.00172    0.001   30.60     0.37    57.900   719.700
WSTLD-1      354       0.90  AI 43406 Bayou Laco    0.00025    0.00889    0.006   30.60     0.37    57.900   719.700
WSTLD-1      358       0.50  Cluster 5 Hwy190 BL    0.00018    0.00621    0.004   30.60     0.37    57.900   719.700
WSTLD-1      360       0.30  Cluster 6 Hwy190 BL    0.00120    0.04254    0.027   30.60     0.37    57.900   719.700
WSTLD-1      374       2.10  AI 97944 Hwy 34 Min    0.00000    0.00004    0.000   30.60     0.37    57.900   719.700
WSTLD-1      390       0.50  AI 157861 Kingdom H    0.00004    0.00145    0.001   30.60     0.37    57.900   719.700
WSTLD-1      391       0.40  AI 119750 Highway 4    0.00001    0.00042    0.000   30.60     0.37    57.900   719.700
WSTLD-1      442       5.90  AI 165334 H2O Syste    0.00004    0.00136    0.001   30.60     0.37    57.900   719.700
WSTLD-1      464       3.70  AI 94173 Southeaste    0.00329    0.11603    0.075   30.60     0.37    57.900   719.700
WSTLD-1      522       0.30  AI 114220 Folger Co    0.00022    0.00774    0.005   30.60     0.37    57.900   719.700
WSTLD-1      565       1.90  AI 157509 Feather &    0.00307    0.10829    0.070   30.60     0.37    57.900   719.700
WSTLD-1      596       1.20  AI 156133 Python Co    0.00001    0.00023    0.000   30.60     0.37    57.900   719.700
WSTLD-1      602       0.60  AI 101375 OW Bayou     0.00000    0.00004    0.000   30.60     0.37    57.900   719.700
WSTLD-1      651       4.80  AI 31079 Brier Lake    0.00219    0.07735    0.050   23.06     0.26    23.500   516.300
WSTLD-1      652       4.70  AI 156693 H2O Syste    0.00657    0.23206    0.150   30.60     0.37    57.900   719.700
WSTLD-1      654       1.50  AI 127495 A to Z Pr    0.00009    0.00329    0.002   30.60     0.37    57.900   719.700
WSTLD-1      655       1.40  AI 123821 Kevin J S    0.00001    0.00039    0.000   30.60     0.37    57.900   719.700
WSTLD-1      660       0.90  AI 157767 St Tamman    0.00000    0.00004    0.000   30.60     0.37    57.900   719.700
WSTLD-1      661       0.80  AI 157892 Mottie Mc    0.00000    0.00008    0.000   30.60     0.37    57.900   719.700
WSTLD-1      663       0.60  AI 119584 Tiller of    0.00001    0.00019    0.000   30.60     0.37    57.900   719.700
WSTLD-1      674       4.10  AI 41881 ICO Corp      0.00000    0.00016    0.000   30.60     0.37    57.900   719.700
WSTLD-1      677       3.80  AI 117076 LA Pines     0.00027    0.00967    0.006   30.60     0.37    57.900   719.700
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                      % BOD                          %
CARD TYPE     ELEMENT   NAME                        DO       BOD      RMVL     NBOD                NITRIF                BOD#2
                                                   mg/L      mg/L                mg/L      mg/L                 mg/L      mg/L

WSTLD-2          12     AI 138040 Animal Se       2.00     69.00      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2          40     AI 120304 St Tamman       2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         169     AI 94746 Southern N       2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         196     AI 155402 Axonic Ne       2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         206     Cluster1Hwy434I12BL       2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         208     Cluster2Hwy434I12BL       2.00     69.00      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         223     Unnamed Tributary         4.24      3.89      0.00     0.14      0.00      0.00      0.00      0.00
WSTLD-2         241     AI 119164 St Tamman       2.00     23.00      0.00    21.50      0.00      0.00      0.00      0.00
WSTLD-2         272     AI 157591 Carmelite       2.00     23.00      0.00    21.50      0.00      0.00      0.00      0.00
WSTLD-2         277     AI 33916 WTSO Beau        2.00     11.50      0.00     8.60      0.00      0.00      0.00      0.00
WSTLD-2         325     AI 93344 US Fish &        2.00     23.00      0.00    21.50      0.00      0.00      0.00      0.00
WSTLD-2         342     AI 43023 Regina Coe       2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         344     AI 40796 Janie Brow       2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         349     Cluster 1 Hwy190 BL       2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         350     Cluster 2 Hwy190 BL       2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         352     Cluster 3 Hwy190 BL       2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         353     Cluster 4 Hwy190 BL       2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         354     AI 43406 Bayou Laco       2.00     23.00      0.00    21.50      0.00      0.00      0.00      0.00
WSTLD-2         358     Cluster 5 Hwy190 BL       2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         360     Cluster 6 Hwy190 BL       2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         374     AI 97944 Hwy 34 Min       2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         390     AI 157861 Kingdom H       2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         391     AI 119750 Highway 4       2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         442     AI 165334 H2O Syste       2.00     23.00      0.00     8.60      0.00      0.00      0.00      0.00
WSTLD-2         464     AI 94173 Southeaste       2.00     11.50      0.00     8.60      0.00      0.00      0.00      0.00
WSTLD-2         522     AI 114220 Folger Co       2.00     23.00      0.00     8.60      0.00      0.00      0.00      0.00
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WSTLD-2         565     AI 157509 Feather &         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         596     AI 156133 Python Co         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         602     AI 101375 OW Bayou          2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         651     AI 31079 Brier Lake         2.00     11.50      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         652     AI 156693 H2O Syste         5.00     11.50      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         654     AI 127495 A to Z Pr         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         655     AI 123821 Kevin J S         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         660     AI 157767 St Tamman         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         661     AI 157892 Mottie Mc         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         663     AI 119584 Tiller of         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         674     AI 41881 ICO Corp           2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         677     AI 117076 LA Pines          2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
ENDATA25

$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                        PHOS     CHL A      COLI       NCM
                                                    mg/L      mg/L      mg/L      mg/L

ENDATA26

$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$

CARD TYPE    CONSTITUENT                     CONCENTRATION

LOWER BC     TEMPERATURE                        =     30.800     deg C
LOWER BC     SALINITY                           =      7.020     ppt
LOWER BC     CONSERVATIVE MATERIAL I (chloride) =   4128.000     mg/L
LOWER BC     CONSERVATIVE MATERIAL II (conduct) =  12216.000     uS/cm
LOWER BC     DISSOLVED OXYGEN                   =      7.140     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND     =      5.012     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND     =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                      =      8.300     µg/L
LOWER BC     NBOD                               =      1.166     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$

CARD TYPE     ELEMENT   NAME                  EQN      "A"       "B"       "H"

ENDATA28

$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$

CARD TYPE       PARAMETER     COL 1     COL 2     COL 3     COL 4     COL 5     COL 6     COL 7     COL 8

SENSITIV         BASEFLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         VELOCITY      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         DEPTH         30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         DISPERSI      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         REAERATI      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD DECA      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD SETT      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD2 DEC      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD2 SET      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         TRANGE        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NBOD DEC      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NBOD SET      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BENTHAL       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         TEMPERAT       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         SALINITY      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         CHLOR A       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC INFL      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC TEMP      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW FLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW TEMP      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL FLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL TEMP       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         OXR           30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC TEMP       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
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SENSITIV         LBC BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC CHLO      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NPS BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NPS BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NPS NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
ENDATA29

$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$


NUMBER OF PLOTS =  8
NUMBER OF REACHES IN PLOT 1 =  18
PLOT RCH  1  3  4  5  7  9 10 12 14 15 17 19 20 32 33 39 40 41
NUMBER OF REACHES IN PLOT 2 =   7
PLOT RCH 21 23 25 26 28 30 31
NUMBER OF REACHES IN PLOT 3 =   4
PLOT RCH 34 36 37 38
NUMBER OF REACHES IN PLOT 4 =   1
PLOT RCH 22
NUMBER OF REACHES IN PLOT 5 =   1
PLOT RCH 24
NUMBER OF REACHES IN PLOT 6 =   1
PLOT RCH 27
NUMBER OF REACHES IN PLOT 7 =   1
PLOT RCH 29
NUMBER OF REACHES IN PLOT 8 =   1
PLOT RCH 35
ENDATA30

$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$


OVERLAY 1 OVLBL.txt                        BAYOU LACOMBE
OVERLAY 2 OVLBBB.txt                       BIG BRANCH BAYOU
OVERLAY 3 OVLCB.txt                        CYPRESS BAYOU
OVERLAY 4 ovld8rch22.txt                   Hwy 434/I-12 ditch on BBB (D8, Rch 22)
OVERLAY 5 ovld9rch24.txt                   Folger ditch on BBB (D9, Rch 24)
OVERLAY 6 ovldarch27.txt                   Berry Todd Rd ditch on BBB (DA, Rch 27)
OVERLAY 7 ovldbrch29.txt                   Hwy 190 ditch on BBB (DB, Rch 29)
OVERLAY 8 ovldcrch35.txt                   Hwy 190 ditch on CB (DC, Rch 35)
ENDATA31


     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   9 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
     .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12
     .....GRAPHICS DATA FOR PLOT 3 WRITTEN TO UNIT 13
     .....GRAPHICS DATA FOR PLOT 4 WRITTEN TO UNIT 14
     .....GRAPHICS DATA FOR PLOT 5 WRITTEN TO UNIT 15
     .....GRAPHICS DATA FOR PLOT 6 WRITTEN TO UNIT 16
     .....GRAPHICS DATA FOR PLOT 7 WRITTEN TO UNIT 17
     .....GRAPHICS DATA FOR PLOT 8 WRITTEN TO UNIT 18


FINAL REPORT    BAYOU LACOMBE                                   BAYOU LACOMBE WATERSHED MODEL
REACH NO.  1    BL01 TO Hwy 36 Ditch BL                         Sumr 4,5 DO curr criteria

 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

    1  HDWTR     0.09200   28.40     0.01     5.60    51.60   5.00   1.91   0.00   1.91   0.00   0.00   0.00   0.00   0.00   0.00     0.00    0.00
 EACH  INCR      0.01800   20.85     0.01     5.60    51.60   5.00   1.91   0.00                  0.00   0.00   0.00   0.00     0.00     0.00

 ************************************************** HYDRAULIC PARAMETER VALUES **************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
  NO.    DIST    DIST               EFF     VELO      TIME                                  AREA    AREA     PRISM    VELO              VELO
          km      km        m³/s            m/s      days       m       m        m³         m²      m²        m³     m/s      m²/s     m/s

    1   31.00   30.99    0.11000   0.0   0.04749      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.047
    2   30.99   30.98    0.12799   0.0   0.05526      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.055
    3   30.98   30.97    0.14599   0.0   0.06303      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.063
    4   30.97   30.96    0.16398   0.0   0.07080      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.071
    5   30.96   30.95    0.18198   0.0   0.07857      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.079
```

6	30.95	30.94	0.19998	0.0	0.08635	0.00	0.40	5.79	23.16	57.90	2.32	0.00	0.000	0.500	0.086
7	30.94	30.93	0.21797	0.0	0.09412	0.00	0.40	5.79	23.16	57.90	2.32	0.00	0.000	0.500	0.094
8	30.93	30.92	0.23597	0.0	0.10189	0.00	0.40	5.79	23.16	57.90	2.32	0.00	0.000	0.500	0.102
9	30.92	30.91	0.25396	0.0	0.10966	0.00	0.40	5.79	23.16	57.90	2.32	0.00	0.000	0.500	0.110
10	30.91	30.90	0.27196	0.0	0.11743	0.00	0.40	5.79	23.16	57.90	2.32	0.00	0.000	0.500	0.117
TOT						0.02			231.60	579.00					
AVG					0.0760		0.40	5.79			2.32				
CUM						0.02									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	30.990	7.77	2.22	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	30.980	7.77	2.31	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	30.970	7.77	2.40	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	30.960	7.77	2.48	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	30.950	7.77	2.55	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	30.940	7.77	2.61	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	30.930	7.77	2.68	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	30.920	7.77	2.74	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	30.910	7.77	2.79	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	30.900	7.77	2.84	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.19	0.03	0.05	0.00	0.00	0.00	0.00	0.00			0.00	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
1	30.990	28.40	0.01	5.60	51.60	5.02	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
2	30.980	28.40	0.01	5.60	51.60	5.03	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
3	30.970	28.40	0.01	5.60	51.60	5.04	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
4	30.960	28.40	0.01	5.60	51.60	5.05	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
5	30.950	28.40	0.01	5.60	51.60	5.05	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
6	30.940	28.40	0.01	5.60	51.60	5.05	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
7	30.930	28.40	0.01	5.60	51.60	5.06	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
8	30.920	28.40	0.01	5.60	51.61	5.06	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
9	30.910	28.40	0.01	5.60	51.62	5.07	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
10	30.900	28.40	0.01	5.60	51.66	5.07	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 3 Hwy 36 Ditch BL to BL02 Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
53	UPR RCH	0.27196	28.40	0.01	5.60	51.66	5.07	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	TRIB	0.00063	28.40	0.21	34.68	423.05	6.44	29.94	0.00	29.94	0.00	26.09	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
53	30.90	30.80	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
54	30.80	30.70	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
55	30.70	30.60	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
56	30.60	30.50	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
57	30.50	30.40	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
58	30.40	30.30	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
59	30.30	30.20	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
60	30.20	30.10	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
61	30.10	30.00	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
62	30.00	29.90	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
63	29.90	29.80	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
64	29.80	29.70	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
65	29.70	29.60	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
66	29.60	29.50	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
67	29.50	29.40	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118

68	29.40	29.30	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
69	29.30	29.20	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
70	29.20	29.10	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
71	29.10	29.00	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
72	29.00	28.90	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
73	28.90	28.80	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
74	28.80	28.70	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
75	28.70	28.60	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
76	28.60	28.50	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
77	28.50	28.40	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
78	28.40	28.30	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
79	28.30	28.20	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
80	28.20	28.10	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
81	28.10	28.00	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
82	28.00	27.90	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
83	27.90	27.80	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
84	27.80	27.70	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
85	27.70	27.60	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
86	27.60	27.50	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
87	27.50	27.40	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
88	27.40	27.30	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
89	27.30	27.20	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
90	27.20	27.10	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
91	27.10	27.00	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
92	27.00	26.90	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
93	26.90	26.80	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
94	26.80	26.70	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
95	26.70	26.60	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
96	26.60	26.50	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
97	26.50	26.40	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
98	26.40	26.30	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
99	26.30	26.20	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
100	26.20	26.10	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
101	26.10	26.00	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
102	26.00	25.90	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
103	25.90	25.80	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
104	25.80	25.70	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
105	25.70	25.60	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
106	25.60	25.50	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
107	25.50	25.40	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
108	25.40	25.30	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
109	25.30	25.20	0.27259	0.1	0.11770	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
TOT						0.56			13201.19	33003.00					
AVG					0.1177		0.40	5.79			2.32				
CUM						0.58									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
53	30.800	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	30.700	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	30.600	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	30.500	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	30.400	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	30.300	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	30.200	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	30.100	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	30.000	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62	29.900	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	29.800	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	29.700	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	29.600	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66	29.500	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67	29.400	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	29.300	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	29.200	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	29.100	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	29.000	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72	28.900	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	28.800	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	28.700	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	28.600	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	28.500	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	28.400	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	28.300	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	28.200	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	28.100	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81	28.000	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82	27.900	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

83	27.800	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	27.700	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	27.600	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	27.500	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	27.400	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	27.300	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	27.200	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	27.100	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	27.000	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	26.900	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	26.800	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	26.700	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	26.600	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	26.500	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	26.400	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	26.300	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	26.200	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	26.100	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	26.000	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	25.900	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	25.800	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	25.700	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	25.600	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	25.500	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	25.400	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	25.300	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	25.200	7.77	2.85	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.43	0.03	0.05	0.00	0.00	0.00	0.00	0.31			0.00	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
53	30.800	28.40	0.01	5.67	52.46	5.13	1.97	0.00	1.97	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
54	30.700	28.40	0.01	5.67	52.46	5.19	1.97	0.00	1.97	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
55	30.600	28.40	0.01	5.67	52.46	5.25	1.97	0.00	1.97	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
56	30.500	28.40	0.01	5.67	52.46	5.30	1.97	0.00	1.97	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
57	30.400	28.40	0.01	5.67	52.46	5.36	1.96	0.00	1.96	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
58	30.300	28.40	0.01	5.67	52.46	5.41	1.96	0.00	1.96	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
59	30.200	28.40	0.01	5.67	52.46	5.46	1.96	0.00	1.96	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
60	30.100	28.40	0.01	5.67	52.46	5.51	1.96	0.00	1.96	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
61	30.000	28.40	0.01	5.67	52.46	5.56	1.95	0.00	1.95	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
62	29.900	28.40	0.01	5.67	52.46	5.60	1.95	0.00	1.95	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
63	29.800	28.40	0.01	5.67	52.46	5.65	1.95	0.00	1.95	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
64	29.700	28.40	0.01	5.67	52.46	5.69	1.95	0.00	1.95	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
65	29.600	28.40	0.01	5.67	52.46	5.74	1.95	0.00	1.95	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
66	29.500	28.40	0.01	5.67	52.46	5.78	1.94	0.00	1.94	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
67	29.400	28.40	0.01	5.67	52.46	5.82	1.94	0.00	1.94	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
68	29.300	28.40	0.01	5.67	52.46	5.86	1.94	0.00	1.94	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
69	29.200	28.40	0.01	5.67	52.46	5.90	1.94	0.00	1.94	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
70	29.100	28.40	0.01	5.67	52.46	5.93	1.94	0.00	1.94	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
71	29.000	28.40	0.01	5.67	52.46	5.97	1.93	0.00	1.93	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
72	28.900	28.40	0.01	5.67	52.46	6.00	1.93	0.00	1.93	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
73	28.800	28.40	0.01	5.67	52.46	6.04	1.93	0.00	1.93	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
74	28.700	28.40	0.01	5.67	52.46	6.07	1.93	0.00	1.93	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
75	28.600	28.40	0.01	5.67	52.46	6.11	1.92	0.00	1.92	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
76	28.500	28.40	0.01	5.67	52.46	6.14	1.92	0.00	1.92	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
77	28.400	28.40	0.01	5.67	52.46	6.17	1.92	0.00	1.92	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
78	28.300	28.40	0.01	5.67	52.46	6.20	1.92	0.00	1.92	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
79	28.200	28.40	0.01	5.67	52.46	6.23	1.92	0.00	1.92	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
80	28.100	28.40	0.01	5.67	52.46	6.26	1.91	0.00	1.91	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
81	28.000	28.40	0.01	5.67	52.46	6.28	1.91	0.00	1.91	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
82	27.900	28.40	0.01	5.67	52.46	6.31	1.91	0.00	1.91	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
83	27.800	28.40	0.01	5.67	52.46	6.34	1.91	0.00	1.91	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
84	27.700	28.40	0.01	5.67	52.46	6.36	1.91	0.00	1.91	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
85	27.600	28.40	0.01	5.67	52.46	6.39	1.90	0.00	1.90	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
86	27.500	28.40	0.01	5.67	52.46	6.41	1.90	0.00	1.90	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
87	27.400	28.40	0.01	5.67	52.46	6.43	1.90	0.00	1.90	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
88	27.300	28.40	0.01	5.67	52.46	6.46	1.90	0.00	1.90	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
89	27.200	28.40	0.01	5.67	52.46	6.48	1.90	0.00	1.90	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
90	27.100	28.40	0.01	5.67	52.46	6.50	1.89	0.00	1.89	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
91	27.000	28.40	0.01	5.67	52.46	6.52	1.89	0.00	1.89	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
92	26.900	28.40	0.01	5.67	52.46	6.54	1.89	0.00	1.89	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
93	26.800	28.40	0.01	5.67	52.46	6.56	1.89	0.00	1.89	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
94	26.700	28.40	0.01	5.67	52.46	6.58	1.89	0.00	1.89	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
95	26.600	28.40	0.01	5.67	52.46	6.60	1.88	0.00	1.88	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
96	26.500	28.40	0.01	5.67	52.46	6.62	1.88	0.00	1.88	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
97	26.400	28.40	0.01	5.67	52.46	6.64	1.88	0.00	1.88	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
98	26.300	28.40	0.01	5.67	52.46	6.65	1.88	0.00	1.88	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

99	26.200	28.40	0.01	5.67	52.46	6.67	1.88	0.00	1.88	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
100	26.100	28.40	0.01	5.67	52.46	6.69	1.87	0.00	1.87	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
101	26.000	28.40	0.01	5.67	52.46	6.70	1.87	0.00	1.87	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
102	25.900	28.40	0.01	5.67	52.46	6.72	1.87	0.00	1.87	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
103	25.800	28.40	0.01	5.67	52.46	6.73	1.87	0.00	1.87	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
104	25.700	28.40	0.01	5.67	52.46	6.75	1.86	0.00	1.86	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
105	25.600	28.40	0.01	5.67	52.46	6.76	1.86	0.00	1.86	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
106	25.500	28.40	0.01	5.67	52.46	6.78	1.86	0.00	1.86	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
107	25.400	28.40	0.01	5.67	52.46	6.79	1.86	0.00	1.86	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
108	25.300	28.40	0.01	5.67	52.46	6.80	1.86	0.00	1.86	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
109	25.200	28.40	0.01	5.67	52.46	6.81	1.86	0.00	1.86	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 4 BL02 to BL03 Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
110	UPR RCH	0.27259	28.40	0.01	5.67	52.46	6.81	1.86	0.00	1.86	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
EACH	INCR	0.00085	21.28	0.00	5.50	56.00	5.00	1.65	0.00			0.03	0.00	0.00	0.00	0.00	0.00	

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
110	25.20	25.10	0.27344	0.1	0.24904	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.249
111	25.10	25.00	0.27430	0.1	0.24982	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.250
112	25.00	24.90	0.27515	0.1	0.25060	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.251
113	24.90	24.80	0.27601	0.1	0.25137	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.251
114	24.80	24.70	0.27686	0.1	0.25215	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.252
115	24.70	24.60	0.27772	0.1	0.25293	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.253
116	24.60	24.50	0.27857	0.1	0.25371	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.254
117	24.50	24.40	0.27943	0.1	0.25449	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.254
118	24.40	24.30	0.28028	0.1	0.25527	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.255
119	24.30	24.20	0.28114	0.1	0.25604	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.256
120	24.20	24.10	0.28199	0.1	0.25682	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.257
121	24.10	24.00	0.28285	0.1	0.25760	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.258
122	24.00	23.90	0.28370	0.1	0.25838	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.258
123	23.90	23.80	0.28456	0.1	0.25916	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.259
124	23.80	23.70	0.28541	0.1	0.25994	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.260
125	23.70	23.60	0.28626	0.1	0.26071	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.261
126	23.60	23.50	0.28712	0.1	0.26149	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.261
127	23.50	23.40	0.28797	0.1	0.26227	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.262
128	23.40	23.30	0.28883	0.1	0.26305	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.263
129	23.30	23.20	0.28968	0.1	0.26383	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.264
130	23.20	23.10	0.29054	0.1	0.26461	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.265
131	23.10	23.00	0.29139	0.1	0.26539	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.265
132	23.00	22.90	0.29225	0.1	0.26616	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.266
133	22.90	22.80	0.29310	0.1	0.26694	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.267
134	22.80	22.70	0.29396	0.1	0.26772	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.268
135	22.70	22.60	0.29481	0.1	0.26850	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.268
136	22.60	22.50	0.29567	0.1	0.26928	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.269
137	22.50	22.40	0.29652	0.1	0.27006	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.270
138	22.40	22.30	0.29738	0.1	0.27083	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.271
139	22.30	22.20	0.29823	0.1	0.27161	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.272
140	22.20	22.10	0.29909	0.1	0.27239	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.272
141	22.10	22.00	0.29994	0.1	0.27317	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.273
142	22.00	21.90	0.30079	0.1	0.27395	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.274
143	21.90	21.80	0.30165	0.1	0.27473	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.275
144	21.80	21.70	0.30250	0.1	0.27550	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.276
145	21.70	21.60	0.30336	0.1	0.27628	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.276
146	21.60	21.50	0.30421	0.1	0.27706	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.277
147	21.50	21.40	0.30507	0.1	0.27784	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.278
148	21.40	21.30	0.30592	0.1	0.27862	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.279
149	21.30	21.20	0.30678	0.1	0.27940	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.279
150	21.20	21.10	0.30763	0.1	0.28018	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.280
151	21.10	21.00	0.30849	0.1	0.28095	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.281
152	21.00	20.90	0.30934	0.1	0.28173	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.282
153	20.90	20.80	0.31020	0.1	0.28251	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.283
154	20.80	20.70	0.31105	0.1	0.28329	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.283
155	20.70	20.60	0.31191	0.1	0.28407	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.284
156	20.60	20.50	0.31276	0.1	0.28485	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.285
157	20.50	20.40	0.31362	0.1	0.28562	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.286
158	20.40	20.30	0.31447	0.1	0.28640	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.286
TOT						0.21			5380.20	29890.00					
AVG					0.2673		0.18	6.10			1.10				

CUM 0.79

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
110	25.100	7.77	7.13	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	25.000	7.77	7.14	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	24.900	7.77	7.14	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	24.800	7.77	7.15	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	24.700	7.77	7.15	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	24.600	7.77	7.16	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	24.500	7.77	7.17	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	24.400	7.77	7.17	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	24.300	7.77	7.18	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	24.200	7.77	7.18	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	24.100	7.77	7.19	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	24.000	7.77	7.20	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	23.900	7.77	7.20	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	23.800	7.77	7.21	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	23.700	7.77	7.21	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	23.600	7.77	7.22	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	23.500	7.77	7.22	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	23.400	7.77	7.23	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	23.300	7.77	7.24	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	23.200	7.77	7.24	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	23.100	7.77	7.25	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	23.000	7.77	7.25	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	22.900	7.77	7.26	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	22.800	7.77	7.27	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	22.700	7.77	7.27	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	22.600	7.77	7.28	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	22.500	7.77	7.28	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	22.400	7.77	7.29	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	22.300	7.77	7.29	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	22.200	7.77	7.30	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	22.100	7.77	7.31	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	22.000	7.77	7.31	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	21.900	7.77	7.32	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	21.800	7.77	7.32	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	21.700	7.77	7.33	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	21.600	7.77	7.33	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	21.500	7.77	7.34	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	21.400	7.77	7.35	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	21.300	7.77	7.35	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	21.200	7.77	7.36	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	21.100	7.77	7.36	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	21.000	7.77	7.37	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	20.900	7.77	7.37	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	20.800	7.77	7.38	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	20.700	7.77	7.38	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	20.600	7.77	7.39	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	20.500	7.77	7.40	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157	20.400	7.77	7.40	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	20.300	7.77	7.41	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.53	0.53	1.03	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.22	0.03	0.05	0.00	0.00	0.00	0.00	0.31			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
110	25.100	28.40	0.01	5.67	52.47	6.83	1.88	0.00	1.88	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
111	25.000	28.40	0.01	5.67	52.48	6.84	1.91	0.00	1.91	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
112	24.900	28.40	0.01	5.67	52.49	6.85	1.93	0.00	1.93	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
113	24.800	28.40	0.01	5.67	52.50	6.86	1.96	0.00	1.96	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
114	24.700	28.40	0.01	5.66	52.51	6.87	1.98	0.00	1.98	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
115	24.600	28.40	0.01	5.66	52.52	6.88	2.01	0.00	2.01	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
116	24.500	28.40	0.01	5.66	52.54	6.89	2.03	0.00	2.03	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
117	24.400	28.40	0.01	5.66	52.55	6.89	2.05	0.00	2.05	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
118	24.300	28.40	0.01	5.66	52.56	6.90	2.08	0.00	2.08	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
119	24.200	28.40	0.01	5.66	52.57	6.91	2.10	0.00	2.10	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
120	24.100	28.40	0.01	5.66	52.58	6.92	2.13	0.00	2.13	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
121	24.000	28.40	0.01	5.66	52.59	6.92	2.15	0.00	2.15	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
122	23.900	28.40	0.01	5.66	52.60	6.93	2.17	0.00	2.17	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
123	23.800	28.40	0.01	5.66	52.61	6.94	2.20	0.00	2.20	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
124	23.700	28.40	0.01	5.66	52.62	6.95	2.22	0.00	2.22	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

125	23.600	28.40	0.01	5.66	52.63	6.95	2.24	0.00	2.24	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
126	23.500	28.40	0.01	5.66	52.64	6.96	2.27	0.00	2.27	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
127	23.400	28.40	0.01	5.66	52.65	6.96	2.29	0.00	2.29	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
128	23.300	28.40	0.01	5.66	52.66	6.97	2.31	0.00	2.31	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
129	23.200	28.40	0.01	5.66	52.67	6.97	2.33	0.00	2.33	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
130	23.100	28.40	0.01	5.66	52.68	6.98	2.36	0.00	2.36	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
131	23.000	28.40	0.01	5.66	52.69	6.98	2.38	0.00	2.38	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
132	22.900	28.40	0.01	5.66	52.70	6.99	2.40	0.00	2.40	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
133	22.800	28.40	0.01	5.66	52.71	6.99	2.42	0.00	2.42	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
134	22.700	28.40	0.01	5.66	52.72	7.00	2.44	0.00	2.44	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
135	22.600	28.40	0.01	5.65	52.73	7.00	2.46	0.00	2.46	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
136	22.500	28.40	0.01	5.65	52.74	7.01	2.49	0.00	2.49	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
137	22.400	28.40	0.01	5.65	52.75	7.01	2.51	0.00	2.51	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
138	22.300	28.40	0.01	5.65	52.75	7.02	2.53	0.00	2.53	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
139	22.200	28.40	0.01	5.65	52.76	7.02	2.55	0.00	2.55	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
140	22.100	28.40	0.01	5.65	52.77	7.02	2.57	0.00	2.57	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
141	22.000	28.40	0.01	5.65	52.78	7.03	2.59	0.00	2.59	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
142	21.900	28.40	0.01	5.65	52.79	7.03	2.61	0.00	2.61	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
143	21.800	28.40	0.01	5.65	52.80	7.03	2.63	0.00	2.63	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
144	21.700	28.40	0.01	5.65	52.81	7.04	2.65	0.00	2.65	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
145	21.600	28.40	0.01	5.65	52.82	7.04	2.67	0.00	2.67	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
146	21.500	28.40	0.01	5.65	52.83	7.04	2.69	0.00	2.69	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
147	21.400	28.40	0.01	5.65	52.84	7.04	2.71	0.00	2.71	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
148	21.300	28.40	0.01	5.65	52.85	7.05	2.73	0.00	2.73	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
149	21.200	28.40	0.01	5.65	52.85	7.05	2.75	0.00	2.75	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
150	21.100	28.40	0.01	5.65	52.86	7.05	2.77	0.00	2.77	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
151	21.000	28.40	0.01	5.65	52.87	7.06	2.79	0.00	2.79	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
152	20.900	28.40	0.01	5.65	52.88	7.06	2.81	0.00	2.81	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
153	20.800	28.40	0.01	5.65	52.89	7.06	2.83	0.00	2.83	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
154	20.700	28.40	0.01	5.65	52.90	7.06	2.85	0.00	2.85	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
155	20.600	28.40	0.01	5.65	52.91	7.06	2.87	0.00	2.87	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
156	20.500	28.40	0.01	5.65	52.91	7.07	2.89	0.00	2.89	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
157	20.400	28.40	0.01	5.65	52.92	7.07	2.91	0.00	2.91	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
158	20.300	28.40	0.01	5.64	52.93	7.07	2.93	0.00	2.93	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 5 BL03 to SNG Ditch Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
159	UPR RCH	0.31447	28.40	0.01	5.64	52.93	7.07	2.93	0.00	2.93	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
EACH	INCR	0.00481	22.03	0.00	5.70	58.04	5.00	2.99	0.00			0.49	0.00	0.00	0.00	0.00	0.00	

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
159	20.30	20.20	0.31928	0.1	0.26230	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.262
160	20.20	20.10	0.32408	0.1	0.26625	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.266
161	20.10	20.00	0.32889	0.1	0.27020	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.270
162	20.00	19.90	0.33370	0.1	0.27415	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.274
163	19.90	19.80	0.33850	0.1	0.27810	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.278
164	19.80	19.70	0.34331	0.1	0.28205	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.282
165	19.70	19.60	0.34812	0.1	0.28600	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.286
166	19.60	19.50	0.35292	0.1	0.28995	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.290
167	19.50	19.40	0.35773	0.1	0.29390	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.294
TOT						0.04			1095.48	6444.00					
AVG					0.2777		0.17	7.16			1.22				
CUM						0.83									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
159	20.200	7.77	7.61	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	20.100	7.77	7.64	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	20.000	7.77	7.67	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	19.900	7.77	7.70	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163	19.800	7.77	7.73	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	19.700	7.77	7.76	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	19.600	7.77	7.79	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	19.500	7.77	7.82	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

167	19.400	7.77	7.85	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.61	0.04	0.05	0.00	0.00	0.00	0.00	2.19			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
159	20.200	28.40	0.01	5.65	53.01	6.97	2.93	0.00	2.93	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
160	20.100	28.40	0.01	5.65	53.08	6.87	2.93	0.00	2.93	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
161	20.000	28.40	0.01	5.65	53.16	6.78	2.92	0.00	2.92	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
162	19.900	28.40	0.01	5.65	53.23	6.70	2.92	0.00	2.92	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
163	19.800	28.40	0.01	5.65	53.29	6.62	2.92	0.00	2.92	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
164	19.700	28.40	0.01	5.65	53.36	6.55	2.92	0.00	2.92	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
165	19.600	28.40	0.01	5.65	53.43	6.48	2.92	0.00	2.92	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
166	19.500	28.40	0.01	5.65	53.49	6.41	2.92	0.00	2.92	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
167	19.400	28.40	0.01	5.65	53.55	6.35	2.92	0.00	2.92	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 7 SNG Ditch to Hwy434/I-12 Dich BL Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
189	UPR RCH	0.35773	28.40	0.01	5.65	53.55	6.35	2.92	0.00	2.92	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00
189	TRIB	0.00042	28.40	0.13	22.77	270.99	6.42	22.77	0.00	22.77	0.00	16.43	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
189	19.40	19.30	0.35815	0.1	0.29424	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.294
190	19.30	19.20	0.35815	0.1	0.29424	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.294
191	19.20	19.10	0.35815	0.1	0.29424	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.294
TOT						0.01			365.16	2148.00					
AVG					0.2942		0.17	7.16			1.22				
CUM						0.84									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
189	19.300	7.77	7.85	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	19.200	7.77	7.85	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
191	19.100	7.77	7.85	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.71	0.04	0.05	0.00	0.00	0.00	0.00	2.19			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
189	19.300	28.40	0.01	5.67	53.80	6.31	2.94	0.00	2.94	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
190	19.200	28.40	0.01	5.67	53.80	6.27	2.94	0.00	2.94	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
191	19.100	28.40	0.01	5.67	53.83	6.23	2.94	0.00	2.94	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 9 Hwy434/I-12DitchBL to BL04 Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM

222	UPR RCH	0.35815	28.40	0.01	5.67	53.83	6.23	2.94	0.00	2.94	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00
222	TRIB	0.00119	28.40	0.29	45.56	562.02	6.48	54.17	0.00	54.17	0.00	45.18	0.00	0.00	0.00	0.00	0.00	0.00
223	WSTLD	0.00439	21.85	0.02	7.40	62.60	4.24	3.89	0.00	3.89	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
222	19.10	19.00	0.35933	0.4	0.29521	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.295
223	19.00	18.90	0.36372	1.6	0.29882	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.299
TOT						0.01			243.44	1432.00					
AVG					0.2970		0.17	7.16			1.22				
CUM						0.85									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
222	19.000	7.77	7.86	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	18.900	7.77	7.89	0.06	0.06	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.73	0.04	0.05	0.00	0.00	0.00	0.00	2.19			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
222	19.000	28.40	0.01	5.80	55.48	6.19	3.11	0.00	3.11	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
223	18.900	28.40	0.01	5.82	55.57	6.13	3.12	0.00	3.12	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 10 BL04 to Keller Barn Ditch Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
224	UPR RCH	0.36372	28.40	0.01	5.82	55.57	6.13	3.12	0.00	3.12	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
224	18.90	18.80	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	35.34	0.000	0.500	0.093
225	18.80	18.70	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	70.68	0.000	0.500	0.093
226	18.70	18.60	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	106.02	0.001	0.500	0.093
227	18.60	18.50	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	141.36	0.001	0.500	0.093
228	18.50	18.40	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	176.70	0.001	0.500	0.093
229	18.40	18.30	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	212.04	0.001	0.500	0.093
230	18.30	18.20	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	247.38	0.001	0.500	0.093
231	18.20	18.10	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	282.72	0.002	0.500	0.093
232	18.10	18.00	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	318.06	0.002	0.500	0.093
233	18.00	17.90	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	353.40	0.002	0.500	0.093
234	17.90	17.80	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	388.74	0.002	0.500	0.093
235	17.80	17.70	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	424.08	0.002	0.500	0.093
236	17.70	17.60	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	459.42	0.003	0.500	0.093
237	17.60	17.50	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	494.76	0.003	0.500	0.093
238	17.50	17.40	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	530.10	0.003	0.500	0.093
239	17.40	17.30	0.36372	1.6	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	565.44	0.003	0.500	0.093
TOT						0.20			6249.60	14880.00					
AVG					0.0931		0.42	9.30			3.91				
CUM						1.04									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
224	18.800	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225	18.700	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
226	18.600	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
227	18.500	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
228	18.400	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
229	18.300	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
230	18.200	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
231	18.100	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
232	18.000	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
233	17.900	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
234	17.800	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
235	17.700	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
236	17.600	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
237	17.500	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
238	17.400	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
239	17.300	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.69			0.07	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
224	18.800	28.40	0.01	5.82	55.57	6.10	3.15	0.00	3.15	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
225	18.700	28.40	0.01	5.82	55.57	6.07	3.18	0.00	3.18	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
226	18.600	28.40	0.01	5.82	55.57	6.03	3.22	0.00	3.22	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
227	18.500	28.40	0.01	5.82	55.57	6.00	3.25	0.00	3.25	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
228	18.400	28.40	0.01	5.82	55.57	5.97	3.28	0.00	3.28	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
229	18.300	28.40	0.01	5.82	55.57	5.94	3.32	0.00	3.32	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
230	18.200	28.40	0.01	5.82	55.57	5.92	3.35	0.00	3.35	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
231	18.100	28.40	0.01	5.82	55.57	5.89	3.38	0.00	3.38	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
232	18.000	28.40	0.01	5.82	55.57	5.86	3.42	0.00	3.42	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
233	17.900	28.40	0.01	5.82	55.57	5.83	3.45	0.00	3.45	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
234	17.800	28.40	0.01	5.82	55.57	5.81	3.48	0.00	3.48	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
235	17.700	28.40	0.01	5.82	55.57	5.79	3.51	0.00	3.51	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
236	17.600	28.40	0.01	5.82	55.57	5.76	3.55	0.00	3.55	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
237	17.500	28.40	0.01	5.82	55.57	5.74	3.58	0.00	3.58	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
238	17.400	28.40	0.01	5.82	55.57	5.72	3.61	0.00	3.61	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
239	17.300	28.40	0.01	5.82	55.57	5.69	3.64	0.00	3.64	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 12 KellerBarnDitchToBeauVillageDich Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
249	UPR RCH	0.36372	28.40	0.01	5.82	55.57	5.69	3.64	0.00	3.64	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00
249	TRIB	0.00029	28.40	0.02	6.98	69.25	7.40	1.21	0.00	1.21	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00
272	WSTLD	0.00003	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
249	17.30	17.20	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	600.78	0.003	0.500	0.093
250	17.20	17.10	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	636.12	0.004	0.500	0.093
251	17.10	17.00	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	671.46	0.004	0.500	0.093
252	17.00	16.90	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	706.80	0.004	0.500	0.093
253	16.90	16.80	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	742.14	0.004	0.500	0.093
254	16.80	16.70	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	777.48	0.004	0.500	0.093
255	16.70	16.60	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	812.82	0.005	0.500	0.093
256	16.60	16.50	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	848.16	0.005	0.500	0.093
257	16.50	16.40	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	883.50	0.005	0.500	0.093
258	16.40	16.30	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	918.84	0.005	0.500	0.093
259	16.30	16.20	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	954.18	0.005	0.500	0.093
260	16.20	16.10	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	989.52	0.006	0.500	0.093
261	16.10	16.00	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	1024.86	0.006	0.500	0.093
262	16.00	15.90	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	1060.20	0.006	0.500	0.093

263	15.90	15.80	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	1095.54	0.006	0.500	0.093
264	15.80	15.70	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	1130.88	0.006	0.500	0.093
265	15.70	15.60	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	1166.22	0.007	0.500	0.093
266	15.60	15.50	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	1201.56	0.007	0.500	0.093
267	15.50	15.40	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	1236.90	0.007	0.500	0.093
268	15.40	15.30	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	1272.24	0.007	0.500	0.093
269	15.30	15.20	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	1307.58	0.007	0.500	0.093
270	15.20	15.10	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	1342.92	0.008	0.500	0.093
271	15.10	15.00	0.36401	1.6	0.09319	0.01	0.42	9.30	390.60	930.00	3.91	1378.26	0.008	0.500	0.093
272	15.00	14.90	0.36404	1.6	0.09320	0.01	0.42	9.30	390.60	930.00	3.91	1413.60	0.008	0.500	0.093
273	14.90	14.80	0.36404	1.6	0.09320	0.01	0.42	9.30	390.60	930.00	3.91	1448.94	0.008	0.500	0.093
274	14.80	14.70	0.36404	1.6	0.09320	0.01	0.42	9.30	390.60	930.00	3.91	1484.28	0.008	0.500	0.093
275	14.70	14.60	0.36404	1.6	0.09320	0.01	0.42	9.30	390.60	930.00	3.91	1519.62	0.009	0.500	0.093
TOT						0.34			10546.20	25110.00					
AVG					0.0932		0.42	9.30			3.91				
CUM						1.38									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
249	17.200	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250	17.100	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
251	17.000	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
252	16.900	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
253	16.800	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
254	16.700	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255	16.600	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
256	16.500	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
257	16.400	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
258	16.300	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
259	16.200	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
260	16.100	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
261	16.000	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
262	15.900	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
263	15.800	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
264	15.700	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
265	15.600	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
266	15.500	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
267	15.400	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
268	15.300	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
269	15.200	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270	15.100	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
271	15.000	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
272	14.900	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273	14.800	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	14.700	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
275	14.600	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.69			0.07	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
249	17.200	28.40	0.01	5.82	55.58	5.67	3.68	0.00	3.68	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
250	17.100	28.40	0.01	5.82	55.58	5.65	3.71	0.00	3.71	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
251	17.000	28.40	0.01	5.82	55.58	5.63	3.74	0.00	3.74	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
252	16.900	28.40	0.01	5.82	55.58	5.61	3.77	0.00	3.77	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
253	16.800	28.40	0.01	5.82	55.58	5.60	3.81	0.00	3.81	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
254	16.700	28.40	0.01	5.82	55.58	5.58	3.84	0.00	3.84	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
255	16.600	28.40	0.01	5.82	55.58	5.56	3.87	0.00	3.87	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
256	16.500	28.40	0.01	5.82	55.58	5.54	3.90	0.00	3.90	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
257	16.400	28.40	0.01	5.82	55.58	5.53	3.94	0.00	3.94	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
258	16.300	28.40	0.01	5.82	55.58	5.51	3.97	0.00	3.97	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
259	16.200	28.40	0.01	5.82	55.58	5.49	4.00	0.00	4.00	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
260	16.100	28.40	0.01	5.82	55.58	5.48	4.03	0.00	4.03	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
261	16.000	28.40	0.01	5.82	55.58	5.46	4.07	0.00	4.07	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
262	15.900	28.40	0.01	5.82	55.58	5.45	4.10	0.00	4.10	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
263	15.800	28.40	0.01	5.82	55.58	5.44	4.13	0.00	4.13	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
264	15.700	28.40	0.01	5.82	55.58	5.42	4.16	0.00	4.16	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
265	15.600	28.40	0.01	5.82	55.58	5.41	4.19	0.00	4.19	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
266	15.500	28.40	0.01	5.82	55.58	5.40	4.23	0.00	4.23	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
267	15.400	28.40	0.01	5.82	55.58	5.38	4.26	0.00	4.26	0.00	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
268	15.300	28.40	0.01	5.82	55.58	5.37	4.29	0.00	4.29	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
269	15.200	28.40	0.01	5.82	55.58	5.36	4.32	0.00	4.32	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

270	15.100	28.40	0.01	5.82	55.58	5.35	4.36	0.00	4.36	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
271	15.000	28.40	0.01	5.82	55.58	5.34	4.39	0.00	4.39	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
272	14.900	28.40	0.01	5.83	55.63	5.33	4.42	0.00	4.42	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
273	14.800	28.40	0.01	5.83	55.63	5.32	4.45	0.00	4.45	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
274	14.700	28.40	0.01	5.83	55.63	5.31	4.48	0.00	4.48	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
275	14.600	28.40	0.01	5.84	55.75	5.30	4.52	0.00	4.52	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 14 Beau Village Ditch to BL05 Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
306	UPR RCH	0.36404	28.40	0.01	5.84	55.75	5.30	4.52	0.00	4.52	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00
306	TRIB	0.00159	28.40	0.31	48.72	602.37	7.47	8.09	0.00	8.09	0.00	6.39	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
306	14.60	14.50	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	1590.30	0.009	0.500	0.094
307	14.50	14.40	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	1660.98	0.009	0.500	0.094
308	14.40	14.30	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	1731.66	0.010	0.500	0.094
309	14.30	14.20	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	1802.34	0.010	0.500	0.094
310	14.20	14.10	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	1873.02	0.011	0.500	0.094
311	14.10	14.00	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	1943.70	0.011	0.500	0.094
312	14.00	13.90	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	2014.38	0.011	0.500	0.094
313	13.90	13.80	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	2085.06	0.012	0.500	0.094
314	13.80	13.70	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	2155.74	0.012	0.500	0.094
315	13.70	13.60	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	2226.42	0.013	0.500	0.094
316	13.60	13.50	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	2297.10	0.013	0.500	0.094
317	13.50	13.40	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	2367.78	0.013	0.500	0.094
318	13.40	13.30	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	2438.46	0.014	0.500	0.094
319	13.30	13.20	0.36563	2.0	0.09361	0.01	0.42	9.30	390.60	930.00	3.91	2509.14	0.014	0.500	0.094
TOT						0.17			5468.40	13020.00					
AVG					0.0936		0.42	9.30			3.91				
CUM						1.55									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
306	14.500	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
307	14.400	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
308	14.300	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
309	14.200	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
310	14.100	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
311	14.000	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
312	13.900	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
313	13.800	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
314	13.700	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
315	13.600	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
316	13.500	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
317	13.400	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
318	13.300	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
319	13.200	7.77	2.56	0.04	0.06	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.11	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.69			0.07	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
306	14.500	28.40	0.01	6.01	58.01	5.30	4.57	0.00	4.57	0.00	1.03	0.00	0.00	0.00	0.00	0.71	0.00	0.	0.00
307	14.400	28.40	0.01	6.01	58.01	5.29	4.60	0.00	4.60	0.00	1.05	0.00	0.00	0.00	0.00	1.43	0.00	0.	0.00
308	14.300	28.40	0.01	6.01	58.01	5.28	4.64	0.00	4.64	0.00	1.07	0.00	0.00	0.00	0.00	2.14	0.00	0.	0.00
309	14.200	28.40	0.01	6.01	58.01	5.27	4.68	0.00	4.68	0.00	1.09	0.00	0.00	0.00	0.00	2.86	0.00	0.	0.00
310	14.100	28.40	0.01	6.01	58.01	5.27	4.71	0.00	4.71	0.00	1.11	0.00	0.00	0.00	0.00	3.57	0.00	0.	0.00
311	14.000	28.40	0.01	6.01	58.01	5.26	4.75	0.00	4.75	0.00	1.13	0.00	0.00	0.00	0.00	4.29	0.00	0.	0.00

312	13.900	28.40	0.01	6.01	58.01	5.26	4.79	0.00	4.79	0.00	1.15	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00
313	13.800	28.40	0.01	6.01	58.01	5.25	4.82	0.00	4.82	0.00	1.17	0.00	0.00	0.00	0.00	5.71	0.00	0.	0.00
314	13.700	28.40	0.01	6.01	58.01	5.25	4.86	0.00	4.86	0.00	1.19	0.00	0.00	0.00	0.00	6.43	0.00	0.	0.00
315	13.600	28.40	0.01	6.01	58.01	5.25	4.89	0.00	4.89	0.00	1.21	0.00	0.00	0.00	0.00	7.14	0.00	0.	0.00
316	13.500	28.40	0.01	6.01	58.01	5.25	4.93	0.00	4.93	0.00	1.23	0.00	0.00	0.00	0.00	7.86	0.00	0.	0.00
317	13.400	28.40	0.01	6.01	58.01	5.25	4.97	0.00	4.97	0.00	1.25	0.00	0.00	0.00	0.00	8.57	0.00	0.	0.00
318	13.300	28.40	0.01	6.01	58.01	5.25	5.00	0.00	5.00	0.00	1.27	0.00	0.00	0.00	0.00	9.29	0.00	0.	0.00
319	13.200	28.40	0.01	6.01	58.01	5.32	5.00	0.00	5.00	0.00	1.28	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 15 BL05 to Hwy 190 Ditch BL Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
320	UPR RCH	0.36563	28.40	0.01	6.01	58.01	5.32	5.00	0.00	5.00	0.00	1.28	0.00	0.00	0.00	10.00	0.00	0.00
325	WSTLD	0.00006	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
320	13.20	13.10	0.36563	2.0	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	2797.56	0.001	0.500	0.004
321	13.10	13.00	0.36563	2.0	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	3085.98	0.001	0.500	0.004
322	13.00	12.90	0.36563	2.0	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	3374.40	0.001	0.500	0.004
323	12.90	12.80	0.36563	2.0	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	3662.82	0.001	0.500	0.004
324	12.80	12.70	0.36563	2.0	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	3951.24	0.001	0.500	0.004
325	12.70	12.60	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	4239.66	0.001	0.500	0.004
326	12.60	12.50	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	4528.08	0.001	0.500	0.004
327	12.50	12.40	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	4816.50	0.001	0.500	0.004
328	12.40	12.30	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	5104.92	0.001	0.500	0.004
329	12.30	12.20	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	5393.34	0.001	0.500	0.004
330	12.20	12.10	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	5681.76	0.001	0.500	0.004
331	12.10	12.00	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	5970.18	0.001	0.500	0.004
332	12.00	11.90	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	6258.60	0.002	0.500	0.004
333	11.90	11.80	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	6547.02	0.002	0.500	0.004
334	11.80	11.70	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	6835.44	0.002	0.500	0.004
335	11.70	11.60	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	7123.86	0.002	0.500	0.004
336	11.60	11.50	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	7412.28	0.002	0.500	0.004
337	11.50	11.40	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	7700.70	0.002	0.500	0.004
338	11.40	11.30	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	7989.12	0.002	0.500	0.004
339	11.30	11.20	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	8277.54	0.002	0.500	0.004
340	11.20	11.10	0.36569	2.0	0.00402	0.29	3.60	25.30	9108.00	2530.00	91.08	8565.96	0.002	0.500	0.004
TOT						6.05			191267.98	53130.00					
AVG					0.0040		3.60	25.30			91.08				
CUM						7.61									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
320	13.100	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
321	13.000	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
322	12.900	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
323	12.800	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
324	12.700	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
325	12.600	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
326	12.500	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
327	12.400	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
328	12.300	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
329	12.200	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
330	12.100	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
331	12.000	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
332	11.900	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
333	11.800	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
334	11.700	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
335	11.600	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
336	11.500	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
337	11.400	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
338	11.300	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
339	11.200	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
340	11.100	7.77	0.23	0.07	0.06	0.00	0.00	0.00	0.00	1.91	1.91	1.91	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE	0.19	0.05	0.05	0.00	0.00	0.00	0.00	1.12			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
320	13.100	28.40	0.01	6.01	58.02	5.43	4.95	0.00	4.95	0.00	1.28	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
321	13.000	28.40	0.01	6.02	58.02	5.51	4.91	0.00	4.91	0.00	1.28	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
322	12.900	28.40	0.01	6.02	58.03	5.58	4.88	0.00	4.88	0.00	1.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
323	12.800	28.40	0.01	6.02	58.04	5.65	4.84	0.00	4.84	0.00	1.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
324	12.700	28.40	0.01	6.02	58.07	5.72	4.81	0.00	4.81	0.00	1.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
325	12.600	28.40	0.01	6.02	58.12	5.78	4.78	0.00	4.78	0.00	1.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
326	12.500	28.40	0.01	6.02	58.12	5.84	4.75	0.00	4.75	0.00	1.26	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
327	12.400	28.40	0.01	6.02	58.12	5.90	4.72	0.00	4.72	0.00	1.26	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
328	12.300	28.40	0.01	6.02	58.13	5.95	4.69	0.00	4.69	0.00	1.26	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
329	12.200	28.40	0.01	6.02	58.13	6.00	4.66	0.00	4.66	0.00	1.26	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
330	12.100	28.40	0.01	6.02	58.14	6.05	4.63	0.00	4.63	0.00	1.25	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
331	12.000	28.40	0.01	6.03	58.15	6.10	4.61	0.00	4.61	0.00	1.25	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
332	11.900	28.40	0.01	6.03	58.17	6.14	4.58	0.00	4.58	0.00	1.25	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
333	11.800	28.40	0.01	6.03	58.21	6.18	4.56	0.00	4.56	0.00	1.25	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
334	11.700	28.40	0.01	6.04	58.27	6.22	4.53	0.00	4.53	0.00	1.25	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
335	11.600	28.40	0.01	6.06	58.40	6.25	4.51	0.00	4.51	0.00	1.25	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
336	11.500	28.40	0.01	6.09	58.62	6.28	4.49	0.00	4.49	0.00	1.25	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
337	11.400	28.40	0.01	6.14	59.01	6.29	4.47	0.00	4.47	0.00	1.25	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
338	11.300	28.40	0.01	6.23	59.73	6.29	4.46	0.00	4.46	0.00	1.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
339	11.200	28.40	0.01	6.39	61.02	6.26	4.46	0.00	4.46	0.00	1.29	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
340	11.100	28.40	0.01	6.68	63.34	6.16	4.47	0.00	4.47	0.00	1.34	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 17 Hwy190DitchBLtoHwy434/190DitchBL Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
363	UPR RCH	0.36569	28.40	0.01	6.68	63.34	6.16	4.47	0.00	4.47	0.00	1.34	0.00	0.00	0.00	10.00	0.00	0.00
363	TRIB	0.00341	28.40	0.34	53.61	664.89	6.56	38.92	0.00	38.92	0.00	36.89	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
363	11.10	11.09	0.36911	2.8	0.00405	0.03	3.60	25.30	910.80	253.00	91.08	8594.80	0.002	0.500	0.004
364	11.09	11.08	0.36911	2.8	0.00405	0.03	3.60	25.30	910.80	253.00	91.08	8623.64	0.002	0.500	0.004
365	11.08	11.07	0.36911	2.8	0.00405	0.03	3.60	25.30	910.80	253.00	91.08	8652.48	0.002	0.500	0.004
366	11.07	11.06	0.36911	2.8	0.00405	0.03	3.60	25.30	910.80	253.00	91.08	8681.33	0.002	0.500	0.004
367	11.06	11.05	0.36911	2.8	0.00405	0.03	3.60	25.30	910.80	253.00	91.08	8710.17	0.002	0.500	0.004
368	11.05	11.04	0.36911	2.8	0.00405	0.03	3.60	25.30	910.80	253.00	91.08	8739.01	0.002	0.500	0.004
369	11.04	11.03	0.36911	2.8	0.00405	0.03	3.60	25.30	910.80	253.00	91.08	8767.85	0.002	0.500	0.004
370	11.03	11.02	0.36911	2.8	0.00405	0.03	3.60	25.30	910.80	253.00	91.08	8796.69	0.002	0.500	0.004
371	11.02	11.01	0.36911	2.8	0.00405	0.03	3.60	25.30	910.80	253.00	91.08	8825.54	0.002	0.500	0.004
372	11.01	11.00	0.36911	2.8	0.00405	0.03	3.60	25.30	910.80	253.00	91.08	8854.38	0.002	0.500	0.004
TOT						0.29			9108.00	2530.00					
AVG					0.0041		3.60	25.30			91.08				
CUM						7.89									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
363	11.090	7.74	0.23	0.07	0.06	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
364	11.080	7.71	0.23	0.07	0.06	0.00	0.00	0.00	0.00	3.94	3.94	3.94	0.09	0.06	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
365	11.070	7.67	0.23	0.07	0.06	0.00	0.00	0.00	0.00	4.00	4.00	4.00	0.09	0.06	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
366	11.060	7.64	0.23	0.07	0.06	0.00	0.00	0.00	0.00	4.06	4.06	4.06	0.09	0.06	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
367	11.050	7.61	0.23	0.07	0.06	0.00	0.00	0.00	0.00	4.12	4.12	4.12	0.09	0.06	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
368	11.040	7.58	0.23	0.07	0.06	0.00	0.00	0.00	0.00	4.18	4.18	4.18	0.10	0.06	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
369	11.030	7.55	0.23	0.07	0.06	0.00	0.00	0.00	0.00	4.24	4.24	4.24	0.10	0.06	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
370	11.020	7.52	0.24	0.07	0.06	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.10	0.06	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
371	11.010	7.49	0.24	0.07	0.06	0.00	0.00	0.00	0.00	4.38	4.38	4.38	0.10	0.06	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
372	11.000	7.45	0.24	0.07	0.06	0.00	0.00	0.00	0.00	4.44	4.44	4.44	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE	0.19	0.05	0.05	0.00	0.00	0.00	0.00	2.25		0.05	0.05	0.00	0.00	0.00	0.00		0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
363	11.090	28.64	0.01	6.98	65.64	6.04	4.49	0.00	4.49	0.00	1.39	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
364	11.080	28.88	0.01	7.02	65.80	6.01	4.47	0.00	4.47	0.00	1.37	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
365	11.070	29.12	0.01	7.06	65.97	5.98	4.45	0.00	4.45	0.00	1.36	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
366	11.060	29.36	0.01	7.11	66.15	5.95	4.43	0.00	4.43	0.00	1.35	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
367	11.050	29.60	0.01	7.16	66.34	5.91	4.41	0.00	4.41	0.00	1.33	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
368	11.040	29.84	0.02	7.22	66.55	5.87	4.39	0.00	4.39	0.00	1.31	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
369	11.030	30.08	0.02	7.28	66.78	5.84	4.37	0.00	4.37	0.00	1.30	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
370	11.020	30.32	0.02	7.35	67.03	5.79	4.35	0.00	4.35	0.00	1.28	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
371	11.010	30.56	0.02	7.42	67.30	5.75	4.33	0.00	4.33	0.00	1.26	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
372	11.000	30.80	0.02	7.50	67.59	5.70	4.31	0.00	4.31	0.00	1.24	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 19 Hwy 434/190 Ditch BL to BL06 Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
395	UPR RCH	0.36911	30.80	0.02	7.50	67.59	5.70	4.31	0.00	4.31	0.00	1.24	0.00	0.00	0.00	10.00	0.00	0.00
395	TRIB	0.00033	30.80	0.07	14.08	159.95	6.63	7.54	0.00	7.54	0.00	6.85	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
395	11.00	10.99	0.36944	2.8	0.00406	0.03	3.60	25.30	910.80	253.00	91.08	8883.22	0.002	0.500	0.004
396	10.99	10.98	0.36944	2.8	0.00406	0.03	3.60	25.30	910.80	253.00	91.08	8912.06	0.002	0.500	0.004
397	10.98	10.97	0.36944	2.8	0.00406	0.03	3.60	25.30	910.80	253.00	91.08	8940.90	0.002	0.500	0.004
398	10.97	10.96	0.36944	2.8	0.00406	0.03	3.60	25.30	910.80	253.00	91.08	8969.74	0.002	0.500	0.004
399	10.96	10.95	0.36944	2.8	0.00406	0.03	3.60	25.30	910.80	253.00	91.08	8998.59	0.002	0.500	0.004
400	10.95	10.94	0.36944	2.8	0.00406	0.03	3.60	25.30	910.80	253.00	91.08	9027.43	0.002	0.500	0.004
401	10.94	10.93	0.36944	2.8	0.00406	0.03	3.60	25.30	910.80	253.00	91.08	9056.27	0.002	0.500	0.004
402	10.93	10.92	0.36944	2.8	0.00406	0.03	3.60	25.30	910.80	253.00	91.08	9085.11	0.002	0.500	0.004
403	10.92	10.91	0.36944	2.8	0.00406	0.03	3.60	25.30	910.80	253.00	91.08	9113.95	0.002	0.500	0.004
404	10.91	10.90	0.36944	2.8	0.00406	0.03	3.60	25.30	910.80	253.00	91.08	9142.79	0.002	0.500	0.004
TOT						0.29			9108.00	2530.00					
AVG					0.0041		3.60	25.30			91.08				
CUM						8.18									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
395	10.990	7.45	0.24	0.07	0.06	0.00	0.00	0.00	0.00	4.44	4.44	4.44	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
396	10.980	7.45	0.24	0.07	0.06	0.00	0.00	0.00	0.00	4.44	4.44	4.44	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
397	10.970	7.45	0.24	0.07	0.06	0.00	0.00	0.00	0.00	4.44	4.44	4.44	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
398	10.960	7.45	0.24	0.07	0.06	0.00	0.00	0.00	0.00	4.44	4.44	4.44	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
399	10.950	7.45	0.24	0.07	0.06	0.00	0.00	0.00	0.00	4.44	4.44	4.44	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
400	10.940	7.45	0.24	0.07	0.06	0.00	0.00	0.00	0.00	4.44	4.44	4.44	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
401	10.930	7.45	0.24	0.07	0.06	0.00	0.00	0.00	0.00	4.44	4.44	4.44	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
402	10.920	7.45	0.24	0.07	0.06	0.00	0.00	0.00	0.00	4.44	4.44	4.44	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
403	10.910	7.45	0.24	0.07	0.06	0.00	0.00	0.00	0.00	4.44	4.44	4.44	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
404	10.900	7.45	0.24	0.07	0.06	0.00	0.00	0.00	0.00	4.44	4.44	4.44	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.19	0.05	0.05	0.00	0.00	0.00	0.00	2.25			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM

395	10.990	30.80	0.02	7.58	67.90	5.66	4.29	0.00	4.29	0.00	1.22	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
396	10.980	30.80	0.02	7.67	68.23	5.60	4.26	0.00	4.26	0.00	1.20	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
397	10.970	30.80	0.02	7.77	68.59	5.55	4.24	0.00	4.24	0.00	1.18	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
398	10.960	30.80	0.02	7.87	68.97	5.49	4.22	0.00	4.22	0.00	1.15	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
399	10.950	30.80	0.02	7.99	69.39	5.43	4.19	0.00	4.19	0.00	1.13	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
400	10.940	30.80	0.02	8.11	69.85	5.36	4.17	0.00	4.17	0.00	1.10	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
401	10.930	30.80	0.02	8.25	70.33	5.29	4.14	0.00	4.14	0.00	1.07	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
402	10.920	30.80	0.02	8.39	70.86	5.21	4.12	0.00	4.12	0.00	1.04	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
403	10.910	30.80	0.02	8.55	71.43	5.13	4.09	0.00	4.09	0.00	1.00	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
404	10.900	30.80	0.02	8.71	72.05	5.04	4.07	0.00	4.07	0.00	0.96	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 20 BL06 to confluence with BBB Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
405	UPR RCH	0.36944	30.80	0.02	8.71	72.05	5.04	4.07	0.00	4.07	0.00	0.96	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
405	10.90	10.80	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	9814.63	0.002	2.000	0.003
406	10.80	10.70	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	10486.47	0.002	2.000	0.003
407	10.70	10.60	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	11158.31	0.002	2.000	0.003
408	10.60	10.50	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	11830.15	0.002	2.000	0.003
409	10.50	10.40	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	12501.99	0.002	2.000	0.003
410	10.40	10.30	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	13173.83	0.002	2.000	0.003
411	10.30	10.20	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	13845.67	0.002	2.000	0.003
412	10.20	10.10	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	14517.51	0.002	2.000	0.003
413	10.10	10.00	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	15189.35	0.002	2.000	0.003
414	10.00	9.90	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	15861.19	0.003	2.000	0.003
415	9.90	9.80	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	16533.03	0.003	2.000	0.003
416	9.80	9.70	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	17204.87	0.003	2.000	0.003
417	9.70	9.60	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	17876.71	0.003	2.000	0.003
418	9.60	9.50	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	18548.55	0.003	2.000	0.003
419	9.50	9.40	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	19220.39	0.003	2.000	0.004
420	9.40	9.30	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	19892.23	0.003	2.000	0.004
421	9.30	9.20	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	20564.07	0.003	2.000	0.004
422	9.20	9.10	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	21235.91	0.003	2.000	0.004
423	9.10	9.00	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	21907.75	0.003	2.000	0.004
424	9.00	8.90	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	22579.59	0.004	2.000	0.004
425	8.90	8.80	0.36944	2.8	0.00265	0.44	3.15	44.20	13923.00	4420.00	139.23	23251.43	0.004	2.000	0.004
TOT						9.16			292383.03	92820.00					
AVG					0.0027		3.15	44.20			139.23				
CUM						17.34									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
405	10.800	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.17	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
406	10.700	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.17	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
407	10.600	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.17	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
408	10.500	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.17	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
409	10.400	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
410	10.300	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
411	10.200	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
412	10.100	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
413	10.000	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
414	9.900	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
415	9.800	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
416	9.700	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
417	9.600	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
418	9.500	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
419	9.400	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
420	9.300	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
421	9.200	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
422	9.100	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
423	9.000	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
424	8.900	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00

425	8.800	7.45	0.27	0.07	0.06	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.16	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.22	0.04	0.05	0.00	0.00	0.00	0.00	2.62			0.09	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
405	10.800	30.80	0.02	8.89	72.70	4.95	4.04	0.00	4.04	0.00	0.93	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
406	10.700	30.80	0.02	9.21	73.88	4.82	4.00	0.00	4.00	0.00	0.87	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
407	10.600	30.80	0.02	9.58	75.22	4.69	3.96	0.00	3.96	0.00	0.82	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
408	10.500	30.80	0.02	9.99	76.73	4.58	3.92	0.00	3.92	0.00	0.77	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
409	10.400	30.80	0.02	10.45	78.44	4.48	3.89	0.00	3.89	0.00	0.72	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
410	10.300	30.80	0.02	10.98	80.38	4.39	3.86	0.00	3.86	0.00	0.68	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
411	10.200	30.80	0.02	11.58	82.58	4.31	3.84	0.00	3.84	0.00	0.65	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
412	10.100	30.80	0.02	12.26	85.06	4.24	3.81	0.00	3.81	0.00	0.61	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
413	10.000	30.80	0.03	13.03	87.88	4.18	3.80	0.00	3.80	0.00	0.58	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
414	9.900	30.80	0.03	13.90	91.08	4.12	3.78	0.00	3.78	0.00	0.55	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
415	9.800	30.80	0.03	14.88	94.69	4.08	3.77	0.00	3.77	0.00	0.53	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
416	9.700	30.80	0.03	16.00	98.79	4.04	3.77	0.00	3.77	0.00	0.51	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
417	9.600	30.80	0.03	17.26	103.43	4.01	3.77	0.00	3.77	0.00	0.50	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
418	9.500	30.80	0.04	18.70	108.68	3.99	3.78	0.00	3.78	0.00	0.48	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
419	9.400	30.80	0.04	20.32	114.63	3.98	3.80	0.00	3.80	0.00	0.48	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
420	9.300	30.80	0.04	22.15	121.37	3.97	3.82	0.00	3.82	0.00	0.48	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
421	9.200	30.80	0.05	24.24	129.01	3.99	3.86	0.00	3.86	0.00	0.48	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
422	9.100	30.80	0.05	26.59	137.66	4.01	3.90	0.00	3.90	0.00	0.50	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
423	9.000	30.80	0.06	29.26	147.45	4.05	3.97	0.00	3.97	0.00	0.52	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
424	8.900	30.80	0.06	32.29	158.55	4.12	4.04	0.00	4.04	0.00	0.54	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
425	8.800	30.80	0.07	35.71	171.12	4.20	4.14	0.00	4.14	0.00	0.59	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 32 Big Branch Bayou to BL07 Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
616	UPR RCH	0.36944	30.80	0.07	35.71	171.12	4.20	4.14	0.00	4.14	0.00	0.59	0.00	0.00	0.00	10.00	0.00	0.00
616	TRIB	0.16424	30.80	0.07	36.78	176.22	4.28	4.32	0.00	4.32	0.00	0.71	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
616	8.80	8.79	0.53368	3.2	0.00253	0.05	2.56	82.30	2106.88	823.00	210.69	30400.75	0.003	3.000	0.004
617	8.79	8.78	0.53368	3.2	0.00253	0.05	2.56	82.30	2106.88	823.00	210.69	30525.85	0.003	3.000	0.004
618	8.78	8.77	0.53368	3.2	0.00253	0.05	2.56	82.30	2106.88	823.00	210.69	30650.94	0.003	3.000	0.004
619	8.77	8.76	0.53368	3.2	0.00253	0.05	2.56	82.30	2106.88	823.00	210.69	30776.04	0.003	3.000	0.004
620	8.76	8.75	0.53368	3.2	0.00253	0.05	2.56	82.30	2106.88	823.00	210.69	30901.13	0.003	3.000	0.004
621	8.75	8.74	0.53368	3.2	0.00253	0.05	2.56	82.30	2106.88	823.00	210.69	31026.23	0.003	3.000	0.004
622	8.74	8.73	0.53368	3.2	0.00253	0.05	2.56	82.30	2106.88	823.00	210.69	31151.33	0.003	3.000	0.004
623	8.73	8.72	0.53368	3.2	0.00253	0.05	2.56	82.30	2106.88	823.00	210.69	31276.42	0.003	3.000	0.004
624	8.72	8.71	0.53368	3.2	0.00253	0.05	2.56	82.30	2106.88	823.00	210.69	31401.52	0.003	3.000	0.004
625	8.71	8.70	0.53368	3.2	0.00253	0.05	2.56	82.30	2106.88	823.00	210.69	31526.61	0.003	3.000	0.004
TOT						0.46			21068.80	8230.00					
AVG					0.0025		2.56	82.30			210.69				
CUM						17.79									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
616	8.790	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	8.64	8.64	8.64	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
617	8.780	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	8.64	8.64	8.64	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
618	8.770	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	8.64	8.64	8.64	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
619	8.760	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	8.64	8.64	8.64	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
620	8.750	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	8.64	8.64	8.64	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
621	8.740	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	8.64	8.64	8.64	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
622	8.730	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	8.64	8.64	8.64	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
623	8.720	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	8.64	8.64	8.64	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00

624	8.710	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	8.64	8.64	8.64	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
625	8.700	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	8.64	8.64	8.64	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.27	0.05	0.05	0.00	0.00	0.00	0.00	4.38			0.13	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
616	8.790	30.80	0.07	37.62	178.14	4.26	4.20	0.00	4.20	0.00	0.61	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
617	8.780	30.80	0.07	37.87	178.96	4.27	4.19	0.00	4.19	0.00	0.61	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
618	8.770	30.80	0.07	38.12	179.78	4.27	4.19	0.00	4.19	0.00	0.60	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
619	8.760	30.80	0.07	38.37	180.61	4.28	4.19	0.00	4.19	0.00	0.60	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
620	8.750	30.80	0.07	38.63	181.45	4.29	4.18	0.00	4.18	0.00	0.59	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
621	8.740	30.80	0.07	38.88	182.29	4.30	4.18	0.00	4.18	0.00	0.59	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
622	8.730	30.80	0.07	39.14	183.15	4.31	4.18	0.00	4.18	0.00	0.58	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
623	8.720	30.80	0.07	39.40	184.01	4.32	4.18	0.00	4.18	0.00	0.58	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
624	8.710	30.80	0.07	39.67	184.87	4.33	4.17	0.00	4.17	0.00	0.57	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
625	8.700	30.80	0.07	39.93	185.75	4.34	4.17	0.00	4.17	0.00	0.57	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 33 BL07to confluence w/CypressBayou Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
626	UPR RCH	0.53368	30.80	0.07	39.93	185.75	4.34	4.17	0.00	4.17	0.00	0.57	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
626	8.70	8.60	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	32777.57	0.003	4.000	0.004
627	8.60	8.50	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	34028.54	0.004	4.000	0.004
628	8.50	8.40	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	35279.50	0.004	4.000	0.004
629	8.40	8.30	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	36530.46	0.004	4.000	0.004
630	8.30	8.20	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	37781.42	0.004	4.000	0.004
631	8.20	8.10	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	39032.38	0.004	4.000	0.004
632	8.10	8.00	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	40283.34	0.004	4.000	0.005
633	8.00	7.90	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	41534.30	0.004	4.000	0.005
634	7.90	7.80	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	42785.26	0.005	4.000	0.005
635	7.80	7.70	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	44036.22	0.005	4.000	0.005
636	7.70	7.60	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	45287.18	0.005	4.000	0.005
637	7.60	7.50	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	46538.14	0.005	4.000	0.005
638	7.50	7.40	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	47789.11	0.005	4.000	0.005
639	7.40	7.30	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	49040.07	0.005	4.000	0.005
640	7.30	7.20	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	50291.03	0.005	4.000	0.006
641	7.20	7.10	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	51541.99	0.005	4.000	0.006
642	7.10	7.00	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	52792.95	0.006	4.000	0.006
643	7.00	6.90	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	54043.91	0.006	4.000	0.006
644	6.90	6.80	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	55294.87	0.006	4.000	0.006
645	6.80	6.70	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	56545.83	0.006	4.000	0.006
646	6.70	6.60	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	57796.79	0.006	4.000	0.006
647	6.60	6.50	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	59047.75	0.006	4.000	0.006
648	6.50	6.40	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	60298.71	0.006	4.000	0.007
649	6.40	6.30	0.53368	3.2	0.00253	0.46	2.56	82.30	21068.80	8230.00	210.69	61549.68	0.006	4.000	0.007
TOT						10.97			505651.31	197520.00					
AVG					0.0025		2.56	82.30			210.69				
CUM						28.76									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
626	8.600	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
627	8.500	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
628	8.400	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
629	8.300	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
630	8.200	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00

631	8.100	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
632	8.000	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
633	7.900	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
634	7.800	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
635	7.700	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
636	7.600	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
637	7.500	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
638	7.400	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
639	7.300	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
640	7.200	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
641	7.100	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
642	7.000	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
643	6.900	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
644	6.800	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
645	6.700	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
646	6.600	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
647	6.500	7.45	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
648	6.400	7.44	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
649	6.300	7.44	0.33	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.24	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.27	0.05	0.05	0.00	0.00	0.00	0.00	1.25			0.13	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
626	8.600	30.80	0.08	41.06	189.47	4.39	4.16	0.00	4.16	0.00	0.55	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
627	8.500	30.80	0.08	43.14	196.31	4.48	4.15	0.00	4.15	0.00	0.52	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
628	8.400	30.80	0.09	45.34	203.60	4.56	4.14	0.00	4.14	0.00	0.49	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
629	8.300	30.80	0.09	47.69	211.34	4.63	4.14	0.00	4.14	0.00	0.47	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
630	8.200	30.80	0.09	50.19	219.57	4.70	4.13	0.00	4.13	0.00	0.45	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
631	8.100	30.80	0.10	52.84	228.32	4.77	4.13	0.00	4.13	0.00	0.43	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
632	8.000	30.80	0.10	55.67	237.63	4.82	4.13	0.00	4.13	0.00	0.41	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
633	7.900	30.80	0.11	58.67	247.53	4.88	4.14	0.00	4.14	0.00	0.40	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
634	7.800	30.80	0.12	61.86	258.05	4.92	4.14	0.00	4.14	0.00	0.38	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
635	7.700	30.80	0.12	65.25	269.24	4.97	4.15	0.00	4.15	0.00	0.38	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
636	7.600	30.80	0.13	68.86	281.14	5.00	4.17	0.00	4.17	0.00	0.37	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
637	7.500	30.80	0.14	72.70	293.79	5.04	4.19	0.00	4.19	0.00	0.37	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
638	7.400	30.80	0.15	76.78	307.24	5.06	4.21	0.00	4.21	0.00	0.36	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
639	7.300	30.80	0.15	81.12	321.55	5.09	4.23	0.00	4.23	0.00	0.37	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
640	7.200	30.80	0.16	85.73	336.76	5.10	4.27	0.00	4.27	0.00	0.37	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
641	7.100	30.80	0.17	90.63	352.93	5.12	4.30	0.00	4.30	0.00	0.38	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
642	7.000	30.80	0.18	95.85	370.13	5.13	4.35	0.00	4.35	0.00	0.40	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
643	6.900	30.80	0.19	101.40	388.42	5.13	4.40	0.00	4.40	0.00	0.42	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
644	6.800	30.80	0.20	107.29	407.87	5.13	4.45	0.00	4.45	0.00	0.44	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
645	6.700	30.80	0.22	113.57	428.54	5.12	4.52	0.00	4.52	0.00	0.47	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
646	6.600	30.80	0.23	120.23	450.53	5.11	4.59	0.00	4.59	0.00	0.50	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
647	6.500	30.80	0.24	127.32	473.91	5.09	4.67	0.00	4.67	0.00	0.55	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
648	6.400	30.80	0.26	134.86	498.77	5.06	4.76	0.00	4.76	0.00	0.59	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
649	6.300	30.80	0.27	142.88	525.20	5.04	4.87	0.00	4.87	0.00	0.65	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 39 Cypress Bayou to BL08 Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
715	UPR RCH	0.53368	30.80	0.27	142.88	525.20	5.04	4.87	0.00	4.87	0.00	0.65	0.00	0.00	0.00	10.00	0.00	0.00
715	TRIB	0.22126	30.80	0.28	148.42	545.81	5.01	4.96	0.00	4.96	0.00	0.71	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
715	6.30	6.20	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	70529.42	0.007	5.000	0.007
716	6.20	6.10	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	71664.55	0.007	5.000	0.007
TOT						0.69			45256.08	14936.00					
AVG					0.0033		3.03	74.68			226.28				
CUM						29.45									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
715	6.200	7.44	0.28	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
716	6.100	7.44	0.28	0.08	0.06	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.23	0.05	0.05	0.00	0.00	0.00	0.00	1.25			0.06	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
715	6.200	30.80	0.29	150.16	549.20	5.01	4.96	0.00	4.96	0.00	0.71	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
716	6.100	30.80	0.30	159.32	576.09	4.97	5.07	0.00	5.07	0.00	0.77	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 40 BL08 to BL09 Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
717	UPR RCH	0.75494	30.80	0.30	159.32	576.09	4.97	5.07	0.00	5.07	0.00	0.77	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
717	6.10	6.00	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	72799.69	0.007	6.000	0.007
718	6.00	5.90	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	73934.82	0.007	6.000	0.008
719	5.90	5.80	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	75069.95	0.007	6.000	0.008
720	5.80	5.70	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	76205.09	0.007	6.000	0.008
721	5.70	5.60	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	77340.22	0.008	6.000	0.008
722	5.60	5.50	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	78475.35	0.008	6.000	0.008
723	5.50	5.40	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	79610.48	0.008	6.000	0.008
724	5.40	5.30	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	80745.62	0.008	6.000	0.008
725	5.30	5.20	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	81880.75	0.008	6.000	0.008
726	5.20	5.10	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	83015.88	0.008	6.000	0.008
727	5.10	5.00	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	84151.02	0.008	6.000	0.009
728	5.00	4.90	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	85286.15	0.008	6.000	0.009
729	4.90	4.80	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	86421.28	0.008	6.000	0.009
730	4.80	4.70	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	87556.41	0.009	6.000	0.009
731	4.70	4.60	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	88691.55	0.009	6.000	0.009
732	4.60	4.50	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	89826.68	0.009	6.000	0.009
733	4.50	4.40	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	90961.81	0.009	6.000	0.009
734	4.40	4.30	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	92096.95	0.009	6.000	0.009
735	4.30	4.20	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	93232.08	0.009	6.000	0.009
736	4.20	4.10	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	94367.21	0.009	6.000	0.010
737	4.10	4.00	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	95502.34	0.009	6.000	0.010
738	4.00	3.90	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	96637.48	0.009	6.000	0.010
739	3.90	3.80	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	97772.61	0.010	6.000	0.010
740	3.80	3.70	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	98907.74	0.010	6.000	0.010
741	3.70	3.60	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	100042.88	0.010	6.000	0.010
742	3.60	3.50	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	101178.01	0.010	6.000	0.010
743	3.50	3.40	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	102313.14	0.010	6.000	0.010
744	3.40	3.30	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	103448.27	0.010	6.000	0.010
745	3.30	3.20	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	104583.41	0.010	6.000	0.010
746	3.20	3.10	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	105718.54	0.010	6.000	0.011
747	3.10	3.00	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	106853.67	0.010	6.000	0.011
748	3.00	2.90	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	107988.80	0.011	6.000	0.011
749	2.90	2.80	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	109123.94	0.011	6.000	0.011
750	2.80	2.70	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	110259.07	0.011	6.000	0.011
751	2.70	2.60	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	111394.20	0.011	6.000	0.011
752	2.60	2.50	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	112529.34	0.011	6.000	0.011
753	2.50	2.40	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	113664.47	0.011	6.000	0.011
754	2.40	2.30	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	114799.60	0.011	6.000	0.011
755	2.30	2.20	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	115934.73	0.011	6.000	0.012
756	2.20	2.10	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	117069.87	0.011	6.000	0.012
757	2.10	2.00	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	118205.00	0.012	6.000	0.012
758	2.00	1.90	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	119340.13	0.012	6.000	0.012
759	1.90	1.80	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	120475.27	0.012	6.000	0.012
760	1.80	1.70	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	121610.40	0.012	6.000	0.012

761	1.70	1.60	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	122745.53	0.012	6.000	0.012
762	1.60	1.50	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	123880.66	0.012	6.000	0.012
763	1.50	1.40	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	125015.80	0.012	6.000	0.012
764	1.40	1.30	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	126150.93	0.012	6.000	0.013
765	1.30	1.20	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	127286.06	0.013	6.000	0.013
766	1.20	1.10	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	128421.20	0.013	6.000	0.013
767	1.10	1.00	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	129556.33	0.013	6.000	0.013
768	1.00	0.90	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	130691.46	0.013	6.000	0.013
769	0.90	0.80	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	131826.59	0.013	6.000	0.013
770	0.80	0.70	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	132961.73	0.013	6.000	0.013
771	0.70	0.60	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	134096.88	0.013	6.000	0.013
772	0.60	0.50	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	135232.02	0.013	6.000	0.013
773	0.50	0.40	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	136367.16	0.013	6.000	0.014
774	0.40	0.30	0.75494	3.5	0.00334	0.35	3.03	74.68	22628.04	7468.00	226.28	137502.30	0.014	6.000	0.014
TOT						20.12			1312426.25	433144.00					
AVG					0.0033		3.03	74.68			226.28				
CUM						49.57									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
717	6.000	7.44	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
718	5.900	7.44	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
719	5.800	7.44	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
720	5.700	7.44	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
721	5.600	7.44	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
722	5.500	7.44	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
723	5.400	7.44	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
724	5.300	7.44	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
725	5.200	7.44	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
726	5.100	7.44	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
727	5.000	7.43	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
728	4.900	7.43	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
729	4.800	7.43	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
730	4.700	7.43	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
731	4.600	7.43	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
732	4.500	7.43	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
733	4.400	7.43	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
734	4.300	7.43	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
735	4.200	7.42	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
736	4.100	7.42	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
737	4.000	7.42	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
738	3.900	7.42	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
739	3.800	7.42	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
740	3.700	7.42	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
741	3.600	7.41	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
742	3.500	7.41	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
743	3.400	7.41	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
744	3.300	7.41	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
745	3.200	7.40	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
746	3.100	7.40	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
747	3.000	7.40	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
748	2.900	7.40	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
749	2.800	7.39	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
750	2.700	7.39	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
751	2.600	7.39	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
752	2.500	7.38	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
753	2.400	7.38	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
754	2.300	7.37	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
755	2.200	7.37	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
756	2.100	7.37	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
757	2.000	7.36	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
758	1.900	7.36	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
759	1.800	7.35	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
760	1.700	7.34	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
761	1.600	7.34	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
762	1.500	7.33	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
763	1.400	7.33	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
764	1.300	7.32	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
765	1.200	7.31	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
766	1.100	7.30	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
767	1.000	7.29	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
768	0.900	7.29	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
769	0.800	7.28	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
770	0.700	7.27	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
771	0.600	7.26	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
772	0.500	7.25	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.12	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
773	0.400	7.23	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.13	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
774	0.300	7.22	0.28	0.08	0.06	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.13	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE	0.23	0.05	0.05	0.00	0.00	0.00	0.00	1.69			0.06	0.05	0.00	0.00	0.00	0.00		0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
717	6.000	30.80	0.32	168.21	602.16	4.93	5.19	0.00	5.19	0.00	0.83	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
718	5.900	30.80	0.33	176.86	627.51	4.89	5.30	0.00	5.30	0.00	0.89	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
719	5.800	30.80	0.35	185.98	654.27	4.85	5.41	0.00	5.41	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
720	5.700	30.80	0.36	195.61	682.52	4.81	5.51	0.00	5.51	0.00	0.99	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
721	5.600	30.80	0.38	205.78	712.34	4.78	5.61	0.00	5.61	0.00	1.04	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
722	5.500	30.80	0.40	216.51	743.82	4.74	5.70	0.00	5.70	0.00	1.09	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
723	5.400	30.80	0.42	227.84	777.04	4.70	5.79	0.00	5.79	0.00	1.13	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
724	5.300	30.80	0.44	239.80	812.12	4.67	5.88	0.00	5.88	0.00	1.18	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
725	5.200	30.80	0.46	252.42	849.14	4.63	5.97	0.00	5.97	0.00	1.22	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
726	5.100	30.80	0.48	265.75	888.23	4.59	6.05	0.00	6.05	0.00	1.26	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
727	5.000	30.80	0.51	279.82	929.49	4.56	6.13	0.00	6.13	0.00	1.30	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
728	4.900	30.80	0.53	294.67	973.04	4.52	6.20	0.00	6.20	0.00	1.34	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
729	4.800	30.80	0.56	310.34	1019.01	4.49	6.28	0.00	6.28	0.00	1.37	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
730	4.700	30.80	0.59	326.89	1067.54	4.46	6.35	0.00	6.35	0.00	1.41	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
731	4.600	30.80	0.61	344.35	1118.77	4.43	6.41	0.00	6.41	0.00	1.44	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
732	4.500	30.80	0.65	362.79	1172.84	4.40	6.48	0.00	6.48	0.00	1.47	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
733	4.400	30.80	0.68	382.25	1229.93	4.37	6.54	0.00	6.54	0.00	1.50	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
734	4.300	30.80	0.71	402.80	1290.18	4.34	6.60	0.00	6.60	0.00	1.53	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
735	4.200	30.80	0.75	424.49	1353.79	4.31	6.66	0.00	6.66	0.00	1.56	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
736	4.100	30.80	0.79	447.38	1420.94	4.28	6.71	0.00	6.71	0.00	1.59	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
737	4.000	30.80	0.83	471.54	1491.81	4.26	6.76	0.00	6.76	0.00	1.61	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
738	3.900	30.80	0.87	497.05	1566.63	4.23	6.81	0.00	6.81	0.00	1.64	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
739	3.800	30.80	0.92	523.98	1645.61	4.21	6.86	0.00	6.86	0.00	1.66	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
740	3.700	30.80	0.97	552.41	1728.98	4.19	6.91	0.00	6.91	0.00	1.68	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
741	3.600	30.80	1.02	582.41	1816.99	4.17	6.95	0.00	6.95	0.00	1.70	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
742	3.500	30.80	1.07	614.09	1909.89	4.15	6.99	0.00	6.99	0.00	1.72	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
743	3.400	30.80	1.13	647.53	2007.96	4.13	7.02	0.00	7.02	0.00	1.74	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
744	3.300	30.80	1.19	682.82	2111.48	4.12	7.06	0.00	7.06	0.00	1.76	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
745	3.200	30.80	1.25	720.08	2220.75	4.11	7.09	0.00	7.09	0.00	1.77	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
746	3.100	30.80	1.32	759.41	2336.10	4.10	7.12	0.00	7.12	0.00	1.79	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
747	3.000	30.80	1.39	800.92	2457.87	4.09	7.14	0.00	7.14	0.00	1.80	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
748	2.900	30.80	1.46	844.75	2586.40	4.08	7.17	0.00	7.17	0.00	1.81	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
749	2.800	30.80	1.54	891.01	2722.09	4.08	7.19	0.00	7.19	0.00	1.82	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
750	2.700	30.80	1.62	939.84	2865.31	4.08	7.20	0.00	7.20	0.00	1.83	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
751	2.600	30.80	1.71	991.39	3016.51	4.08	7.22	0.00	7.22	0.00	1.84	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
752	2.500	30.80	1.80	1045.81	3176.10	4.09	7.23	0.00	7.23	0.00	1.85	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
753	2.400	30.80	1.90	1103.25	3344.58	4.10	7.23	0.00	7.23	0.00	1.85	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
754	2.300	30.80	2.00	1163.89	3522.42	4.12	7.23	0.00	7.23	0.00	1.85	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
755	2.200	30.80	2.11	1227.89	3710.15	4.14	7.23	0.00	7.23	0.00	1.86	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
756	2.100	30.80	2.22	1295.46	3908.32	4.16	7.23	0.00	7.23	0.00	1.86	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
757	2.000	30.80	2.35	1366.78	4117.50	4.19	7.22	0.00	7.22	0.00	1.85	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
758	1.900	30.80	2.47	1442.07	4338.32	4.22	7.20	0.00	7.20	0.00	1.85	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
759	1.800	30.80	2.61	1521.55	4571.42	4.26	7.18	0.00	7.18	0.00	1.84	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
760	1.700	30.80	2.75	1605.44	4817.48	4.31	7.16	0.00	7.16	0.00	1.84	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
761	1.600	30.80	2.90	1694.00	5077.22	4.36	7.13	0.00	7.13	0.00	1.83	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
762	1.500	30.80	3.06	1787.49	5351.40	4.42	7.09	0.00	7.09	0.00	1.81	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
763	1.400	30.80	3.22	1886.17	5640.83	4.49	7.05	0.00	7.05	0.00	1.80	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
764	1.300	30.80	3.40	1990.34	5946.35	4.57	7.00	0.00	7.00	0.00	1.78	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
765	1.200	30.80	3.59	2100.30	6268.86	4.66	6.94	0.00	6.94	0.00	1.76	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
766	1.100	30.80	3.78	2216.37	6609.31	4.77	6.87	0.00	6.87	0.00	1.74	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
767	1.000	30.80	3.99	2338.90	6968.68	4.88	6.80	0.00	6.80	0.00	1.71	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
768	0.900	30.80	4.21	2468.25	7348.04	5.01	6.71	0.00	6.71	0.00	1.68	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
769	0.800	30.80	4.44	2604.78	7748.49	5.15	6.62	0.00	6.62	0.00	1.64	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
770	0.700	30.80	4.69	2748.91	8171.20	5.31	6.51	0.00	6.51	0.00	1.60	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
771	0.600	30.80	4.94	2901.05	8617.43	5.48	6.39	0.00	6.39	0.00	1.56	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
772	0.500	30.80	5.21	3061.65	9088.46	5.68	6.26	0.00	6.26	0.00	1.51	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
773	0.400	30.80	5.50	3231.18	9585.69	5.90	6.11	0.00	6.11	0.00	1.46	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
774	0.300	30.80	5.80	3410.14	10110.56	6.14	5.95	0.00	5.95	0.00	1.40	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 41 BL09 to Lake Pontchartrain Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
775	UPR RCH	0.75494	30.80	5.80	3410.14	10110.56	6.14	5.95	0.00	5.95	0.00	1.40	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
775	0.30	0.20	0.75494	3.5	0.00422	0.27	1.80	99.36	17884.80	9936.00	178.85	139012.56	0.017	7.500	0.017
776	0.20	0.10	0.75494	3.5	0.00422	0.27	1.80	99.36	17884.80	9936.00	178.85	140522.83	0.017	7.500	0.018
777	0.10	0.00	0.75494	3.5	0.00422	0.27	1.80	99.36	17884.80	9936.00	178.85	142033.09	0.018	7.500	0.018
TOT						0.82			53654.40	29808.00					
AVG					0.0042		1.80	99.36			178.85				
CUM						50.40									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
775	0.200	7.21	0.47	0.10	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.06	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
776	0.100	7.20	0.47	0.10	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.06	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
777	0.000	7.18	0.47	0.10	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.06	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.39	0.06	0.05	0.00	0.00	0.00	0.00	0.00			0.10	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
775	0.200	30.80	6.13	3600.19	10667.97	6.41	5.77	0.00	5.77	0.00	1.33	0.00	0.00	0.00	0.00	9.43	0.00	0.	0.00
776	0.100	30.80	6.47	3802.10	11260.14	6.69	5.53	0.00	5.53	0.00	1.26	0.00	0.00	0.00	0.00	8.87	0.00	0.	0.00
777	0.000	30.80	6.83	4015.36	11885.65	6.98	5.21	0.00	5.21	0.00	1.20	0.00	0.00	0.00	0.00	8.30	0.00	0.	0.00

STREAM SUMMARY
BAYOU LACOMBE

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

TRAVEL TIME = 50.40 DAYS

MAXIMUM EFFLUENT = 3.46 PERCENT

FLOW	=	0.11000	TO	0.75494	m³/s
DISPERSION	=	0.5000	TO	7.5000	m²/s
VELOCITY	=	0.00253	TO	0.29882	m/s
DEPTH	=	0.17	TO	3.60	m
WIDTH	=	5.79	TO	99.36	m
BOD DECAY	=	0.04	TO	0.10	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.00	TO	8.64	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	0.23	TO	7.89	per day
BOD SETTLING	=	0.06	TO	0.06	per day
NBOD DECAY	=	0.01	TO	1.03	per day
NBOD SETTLING	=	0.06	TO	0.06	per day
TEMPERATURE	=	28.40	TO	30.80	deg C
DISSOLVED OXYGEN	=	3.97	TO	7.07	mg/L

FINAL REPORT Ditch #1 Hwy 36 BL
REACH NO. 2 Hwy 36 Ditch BL

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
11	HDWTR	0.00028	28.40	0.01	5.60	51.60	5.00	2.75	0.00	2.75	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00
12	WSTLD	0.00022	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
40	WSTLD	0.00013	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s

11	4.20	4.10	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
12	4.10	4.00	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
13	4.00	3.90	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
14	3.90	3.80	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
15	3.80	3.70	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
16	3.70	3.60	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
17	3.60	3.50	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
18	3.50	3.40	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
19	3.40	3.30	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
20	3.30	3.20	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
21	3.20	3.10	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
22	3.10	3.00	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
23	3.00	2.90	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
24	2.90	2.80	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
25	2.80	2.70	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
26	2.70	2.60	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
27	2.60	2.50	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
28	2.50	2.40	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
29	2.40	2.30	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
30	2.30	2.20	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
31	2.20	2.10	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
32	2.10	2.00	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
33	2.00	1.90	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
34	1.90	1.80	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
35	1.80	1.70	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
36	1.70	1.60	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
37	1.60	1.50	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
38	1.50	1.40	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
39	1.40	1.30	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
40	1.30	1.20	0.00063	55.6	0.01261	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.013
41	1.20	1.10	0.00063	55.6	0.01261	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.013
42	1.10	1.00	0.00063	55.6	0.01261	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.013
43	1.00	0.90	0.00063	55.6	0.01261	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.013
44	0.90	0.80	0.00063	55.6	0.01261	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.013
45	0.80	0.70	0.00063	55.6	0.01261	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.013
46	0.70	0.60	0.00063	55.6	0.01261	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.013
47	0.60	0.50	0.00063	55.6	0.01261	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.013
48	0.50	0.40	0.00063	55.6	0.01261	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.013
49	0.40	0.30	0.00063	55.6	0.01261	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.013
50	0.30	0.20	0.00063	55.6	0.01261	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.013
51	0.20	0.10	0.00063	55.6	0.01261	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.013
52	0.10	0.00	0.00063	55.6	0.01261	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.013
TOT						4.65			210.00	4200.00					
AVG					0.0105		0.05	1.00			0.05				
CUM						4.65									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
11	4.100	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	4.000	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	3.900	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	3.800	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	3.700	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	3.600	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	3.500	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	3.400	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	3.300	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	3.200	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	3.100	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	3.000	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	2.900	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	2.800	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	2.700	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	2.600	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	2.500	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	2.400	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	2.300	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	2.200	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	2.100	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	2.000	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	1.900	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	1.800	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	1.700	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	1.600	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	1.500	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	1.400	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	1.300	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

40	1.200	7.76	19.75	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	1.100	7.76	19.75	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	1.000	7.76	19.75	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	0.900	7.76	19.75	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	0.800	7.76	19.75	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.700	7.76	19.75	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	0.600	7.76	19.75	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	0.500	7.76	19.75	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	0.400	7.76	19.75	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.300	7.76	19.75	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	0.200	7.76	19.75	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	0.100	7.76	19.75	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	0.000	7.76	19.75	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			16.34	0.08	0.05	0.00	0.00	0.00	0.00	0.62			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
11	4.100	28.40	0.01	5.60	51.60	6.20	2.73	0.00	2.73	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
12	4.000	28.40	0.17	28.56	344.89	5.74	31.22	0.00	31.22	0.00	28.65	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
13	3.900	28.40	0.17	28.56	344.89	6.17	30.63	0.00	30.63	0.00	28.30	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
14	3.800	28.40	0.17	28.56	344.89	6.31	30.05	0.00	30.05	0.00	27.95	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
15	3.700	28.40	0.17	28.56	344.89	6.36	29.48	0.00	29.48	0.00	27.60	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
16	3.600	28.40	0.17	28.56	344.89	6.38	28.92	0.00	28.92	0.00	27.26	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
17	3.500	28.40	0.17	28.56	344.89	6.39	28.38	0.00	28.38	0.00	26.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
18	3.400	28.40	0.17	28.56	344.89	6.39	27.85	0.00	27.85	0.00	26.59	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
19	3.300	28.40	0.17	28.56	344.89	6.40	27.32	0.00	27.32	0.00	26.26	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
20	3.200	28.40	0.17	28.56	344.89	6.40	26.81	0.00	26.81	0.00	25.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
21	3.100	28.40	0.17	28.56	344.89	6.41	26.31	0.00	26.31	0.00	25.61	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
22	3.000	28.40	0.17	28.56	344.89	6.41	25.82	0.00	25.82	0.00	25.30	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
23	2.900	28.40	0.17	28.56	344.89	6.41	25.34	0.00	25.34	0.00	24.98	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
24	2.800	28.40	0.17	28.56	344.89	6.42	24.87	0.00	24.87	0.00	24.68	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
25	2.700	28.40	0.17	28.56	344.89	6.42	24.40	0.00	24.40	0.00	24.37	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
26	2.600	28.40	0.17	28.56	344.89	6.42	23.95	0.00	23.95	0.00	24.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
27	2.500	28.40	0.17	28.56	344.89	6.43	23.51	0.00	23.51	0.00	23.77	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
28	2.400	28.40	0.17	28.56	344.89	6.43	23.07	0.00	23.07	0.00	23.48	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
29	2.300	28.40	0.17	28.56	344.89	6.44	22.65	0.00	22.65	0.00	23.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
30	2.200	28.40	0.17	28.56	344.89	6.44	22.23	0.00	22.23	0.00	22.90	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
31	2.100	28.40	0.17	28.56	344.89	6.44	21.82	0.00	21.82	0.00	22.62	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
32	2.000	28.40	0.17	28.56	344.89	6.45	21.42	0.00	21.42	0.00	22.34	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
33	1.900	28.40	0.17	28.56	344.89	6.45	21.03	0.00	21.03	0.00	22.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
34	1.800	28.40	0.17	28.56	344.89	6.45	20.65	0.00	20.65	0.00	21.80	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
35	1.700	28.40	0.17	28.56	344.89	6.45	20.27	0.00	20.27	0.00	21.53	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
36	1.600	28.40	0.17	28.56	344.89	6.46	19.90	0.00	19.90	0.00	21.26	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
37	1.500	28.40	0.17	28.56	344.89	6.46	19.54	0.00	19.54	0.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
38	1.400	28.40	0.17	28.56	344.89	6.46	19.19	0.00	19.19	0.00	20.75	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
39	1.300	28.40	0.17	28.56	344.89	6.47	18.84	0.00	18.84	0.00	20.49	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
40	1.200	28.40	0.21	34.68	423.05	6.09	35.94	0.00	35.94	0.00	29.38	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
41	1.100	28.40	0.21	34.68	423.05	6.29	35.39	0.00	35.39	0.00	29.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
42	1.000	28.40	0.21	34.68	423.05	6.37	34.86	0.00	34.86	0.00	28.80	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
43	0.900	28.40	0.21	34.68	423.05	6.40	34.33	0.00	34.33	0.00	28.52	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
44	0.800	28.40	0.21	34.68	423.05	6.41	33.81	0.00	33.81	0.00	28.24	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
45	0.700	28.40	0.21	34.68	423.05	6.41	33.30	0.00	33.30	0.00	27.96	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
46	0.600	28.40	0.21	34.68	423.05	6.42	32.79	0.00	32.79	0.00	27.68	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
47	0.500	28.40	0.21	34.68	423.05	6.42	32.30	0.00	32.30	0.00	27.41	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
48	0.400	28.40	0.21	34.68	423.05	6.43	31.81	0.00	31.81	0.00	27.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
49	0.300	28.40	0.21	34.68	423.05	6.43	31.33	0.00	31.33	0.00	26.87	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
50	0.200	28.40	0.21	34.68	423.05	6.43	30.86	0.00	30.86	0.00	26.61	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
51	0.100	28.40	0.21	34.68	423.05	6.44	30.40	0.00	30.40	0.00	26.35	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
52	0.000	28.40	0.21	34.68	423.05	6.44	29.94	0.00	29.94	0.00	26.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch #1 Hwy 36 BL

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

TRAVEL TIME = 4.65 DAYS

MAXIMUM EFFLUENT = 55.60 PERCENT

FLOW	=	0.00028	TO	0.00063	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.01261	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.12	TO	0.12	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	1.06	TO	1.06	g/m²/d

NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	17.41	TO	19.75	per day
BOD SETTLING	=	0.06	TO	0.06	per day
NBOD DECAY	=	0.05	TO	0.05	per day
NBOD SETTLING	=	0.06	TO	0.06	per day
TEMPERATURE	=	28.40	TO	28.40	deg C
DISSOLVED OXYGEN	=	5.74	TO	6.47	mg/L

FINAL REPORT Ditch #2 SNG ditch BAYOU LACOMBE WATERSHED MODEL
REACH NO. 6 SNG Ditch Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
168	HDWTR	0.00028	28.40	0.01	5.60	51.60	5.00	2.75	0.00	2.75	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00
169	WSTLD	0.00014	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
168	2.10	2.00	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
169	2.00	1.90	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
170	1.90	1.80	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
171	1.80	1.70	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
172	1.70	1.60	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
173	1.60	1.50	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
174	1.50	1.40	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
175	1.40	1.30	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
176	1.30	1.20	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
177	1.20	1.10	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
178	1.10	1.00	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
179	1.00	0.90	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
180	0.90	0.80	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
181	0.80	0.70	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
182	0.70	0.60	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
183	0.60	0.50	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
184	0.50	0.40	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
185	0.40	0.30	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
186	0.30	0.20	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
187	0.20	0.10	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
188	0.10	0.00	0.00042	32.8	0.00834	0.14	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
TOT						2.98			105.00	2100.00					
AVG					0.0081		0.05	1.00			0.05				
CUM						2.98									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
168	2.000	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169	1.900	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	1.800	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	1.700	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1.600	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173	1.500	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	1.400	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	1.300	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	1.200	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	1.100	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	1.000	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179	0.900	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.800	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
181	0.700	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
182	0.600	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183	0.500	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184	0.400	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
185	0.300	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
186	0.200	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
187	0.100	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188	0.000	7.77	18.32	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE	15.63	0.08	0.05	0.00	0.00	0.00	0.00	0.62		0.03	0.05	0.00	0.00	0.00	0.00		0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
168	2.000	28.40	0.01	5.60	51.60	6.20	2.73	0.00	2.73	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
169	1.900	28.40	0.13	22.77	270.99	5.90	35.00	0.00	35.00	0.00	21.69	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
170	1.800	28.40	0.13	22.77	270.99	6.21	34.21	0.00	34.21	0.00	21.38	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
171	1.700	28.40	0.13	22.77	270.99	6.30	33.43	0.00	33.43	0.00	21.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
172	1.600	28.40	0.13	22.77	270.99	6.33	32.67	0.00	32.67	0.00	20.76	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
173	1.500	28.40	0.13	22.77	270.99	6.34	31.94	0.00	31.94	0.00	20.45	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
174	1.400	28.40	0.13	22.77	270.99	6.35	31.21	0.00	31.21	0.00	20.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
175	1.300	28.40	0.13	22.77	270.99	6.36	30.51	0.00	30.51	0.00	19.86	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
176	1.200	28.40	0.13	22.77	270.99	6.36	29.82	0.00	29.82	0.00	19.57	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
177	1.100	28.40	0.13	22.77	270.99	6.37	29.15	0.00	29.15	0.00	19.29	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
178	1.000	28.40	0.13	22.77	270.99	6.37	28.50	0.00	28.50	0.00	19.01	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
179	0.900	28.40	0.13	22.77	270.99	6.38	27.86	0.00	27.86	0.00	18.73	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
180	0.800	28.40	0.13	22.77	270.99	6.38	27.24	0.00	27.24	0.00	18.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
181	0.700	28.40	0.13	22.77	270.99	6.39	26.63	0.00	26.63	0.00	18.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
182	0.600	28.40	0.13	22.77	270.99	6.39	26.04	0.00	26.04	0.00	17.93	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
183	0.500	28.40	0.13	22.77	270.99	6.39	25.46	0.00	25.46	0.00	17.67	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
184	0.400	28.40	0.13	22.77	270.99	6.40	24.89	0.00	24.89	0.00	17.41	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
185	0.300	28.40	0.13	22.77	270.99	6.40	24.34	0.00	24.34	0.00	17.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
186	0.200	28.40	0.13	22.77	270.99	6.41	23.81	0.00	23.81	0.00	16.91	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
187	0.100	28.40	0.13	22.77	270.99	6.41	23.28	0.00	23.28	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
188	0.000	28.40	0.13	22.77	270.99	6.42	22.77	0.00	22.77	0.00	16.43	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch #2 SNG ditch

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

TRAVEL TIME	=	2.98	DAYS		
MAXIMUM EFFLUENT	=	32.84	PERCENT		
FLOW	=	0.00028	TO	0.00042	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.00834	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.12	TO	0.12	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	1.06	TO	1.06	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	17.41	TO	18.32	per day
BOD SETTLING	=	0.06	TO	0.06	per day
NBOD DECAY	=	0.05	TO	0.05	per day
NBOD SETTLING	=	0.06	TO	0.06	per day
TEMPERATURE	=	28.40	TO	28.40	deg C
DISSOLVED OXYGEN	=	5.90	TO	6.42	mg/L

FINAL REPORT Ditch#3Hwy434/I-12BL
REACH NO. 8 Hwy 434/I-12 Ditch BL

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
192	HDWTR	0.00028	28.40	0.01	5.60	51.60	5.00	2.75	0.00	2.75	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00
196	WSTLD	0.00005	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
206	WSTLD	0.00028	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
208	WSTLD	0.00057	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
192	3.00	2.90	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
193	2.90	2.80	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
194	2.80	2.70	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
195	2.70	2.60	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006

196	2.60	2.50	0.00033	16.4	0.00670	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
197	2.50	2.40	0.00033	16.4	0.00670	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
198	2.40	2.30	0.00033	16.4	0.00670	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
199	2.30	2.20	0.00033	16.4	0.00670	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
200	2.20	2.10	0.00033	16.4	0.00670	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
201	2.10	2.00	0.00033	16.4	0.00670	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
202	2.00	1.90	0.00033	16.4	0.00670	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
203	1.90	1.80	0.00033	16.4	0.00670	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
204	1.80	1.70	0.00033	16.4	0.00670	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
205	1.70	1.60	0.00033	16.4	0.00670	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
206	1.60	1.50	0.00061	54.4	0.01227	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.012
207	1.50	1.40	0.00061	54.4	0.01227	0.09	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.012
208	1.40	1.30	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
209	1.30	1.20	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
210	1.20	1.10	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
211	1.10	1.00	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
212	1.00	0.90	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
213	0.90	0.80	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
214	0.80	0.70	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
215	0.70	0.60	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
216	0.60	0.50	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
217	0.50	0.40	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
218	0.40	0.30	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
219	0.30	0.20	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
220	0.20	0.10	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
221	0.10	0.00	0.00119	76.4	0.02373	0.05	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.024
TOT						3.43			150.00	3000.00					
AVG					0.0101		0.05	1.00			0.05				
CUM						3.43									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
192	2.900	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
193	2.800	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
194	2.700	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195	2.600	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
196	2.500	7.77	17.77	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	2.400	7.77	17.77	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
198	2.300	7.77	17.77	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199	2.200	7.77	17.77	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	2.100	7.77	17.77	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
201	2.000	7.77	17.77	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202	1.900	7.77	17.77	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
203	1.800	7.77	17.77	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
204	1.700	7.77	17.77	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
205	1.600	7.77	17.77	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
206	1.500	7.76	19.64	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
207	1.400	7.76	19.64	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	1.300	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
209	1.200	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210	1.100	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
211	1.000	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
212	0.900	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
213	0.800	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
214	0.700	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
215	0.600	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
216	0.500	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217	0.400	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
218	0.300	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
219	0.200	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220	0.100	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221	0.000	7.76	23.46	0.12	0.06	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			17.53	0.08	0.05	0.00	0.00	0.00	0.00	0.62			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
192	2.900	28.40	0.01	5.60	51.60	6.20	2.73	0.00	2.73	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
193	2.800	28.40	0.01	5.60	51.60	6.46	2.71	0.00	2.71	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
194	2.700	28.40	0.01	5.60	51.60	6.52	2.69	0.00	2.69	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
195	2.600	28.40	0.01	5.60	51.60	6.53	2.67	0.00	2.67	0.00	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
196	2.500	28.40	0.07	14.16	160.95	6.26	18.66	0.00	18.66	0.00	11.38	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

197	2.400	28.40	0.07	14.16	160.95	6.38	18.17	0.00	18.17	0.00	11.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
198	2.300	28.40	0.07	14.16	160.95	6.42	17.69	0.00	17.69	0.00	10.99	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
199	2.200	28.40	0.07	14.16	160.95	6.43	17.23	0.00	17.23	0.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
200	2.100	28.40	0.07	14.16	160.95	6.43	16.77	0.00	16.77	0.00	10.61	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
201	2.000	28.40	0.07	14.16	160.95	6.44	16.34	0.00	16.34	0.00	10.43	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
202	1.900	28.40	0.07	14.16	160.95	6.44	15.91	0.00	15.91	0.00	10.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
203	1.800	28.40	0.07	14.16	160.95	6.44	15.50	0.00	15.50	0.00	10.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
204	1.700	28.40	0.07	14.16	160.95	6.45	15.10	0.00	15.10	0.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
205	1.600	28.40	0.07	14.16	160.95	6.45	14.71	0.00	14.71	0.00	9.73	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
206	1.500	28.40	0.21	34.03	414.83	5.63	54.18	0.00	54.18	0.00	34.27	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
207	1.400	28.40	0.21	34.03	414.83	6.05	53.32	0.00	53.32	0.00	33.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
208	1.300	28.40	0.29	45.56	562.02	5.35	60.38	0.00	60.38	0.00	48.43	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
209	1.200	28.40	0.29	45.56	562.02	5.94	59.88	0.00	59.88	0.00	48.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
210	1.100	28.40	0.29	45.56	562.02	6.21	59.38	0.00	59.38	0.00	47.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
211	1.000	28.40	0.29	45.56	562.02	6.34	58.88	0.00	58.88	0.00	47.66	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
212	0.900	28.40	0.29	45.56	562.02	6.41	58.39	0.00	58.39	0.00	47.41	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
213	0.800	28.40	0.29	45.56	562.02	6.44	57.91	0.00	57.91	0.00	47.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
214	0.700	28.40	0.29	45.56	562.02	6.45	57.43	0.00	57.43	0.00	46.91	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
215	0.600	28.40	0.29	45.56	562.02	6.46	56.95	0.00	56.95	0.00	46.66	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
216	0.500	28.40	0.29	45.56	562.02	6.47	56.48	0.00	56.48	0.00	46.41	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
217	0.400	28.40	0.29	45.56	562.02	6.47	56.01	0.00	56.01	0.00	46.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
218	0.300	28.40	0.29	45.56	562.02	6.47	55.54	0.00	55.54	0.00	45.91	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
219	0.200	28.40	0.29	45.56	562.02	6.48	55.08	0.00	55.08	0.00	45.67	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
220	0.100	28.40	0.29	45.56	562.02	6.48	54.62	0.00	54.62	0.00	45.43	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
221	0.000	28.40	0.29	45.56	562.02	6.48	54.17	0.00	54.17	0.00	45.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch#3Hwy434/I-12BL

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

TRAVEL TIME = 3.43 DAYS

MAXIMUM EFFLUENT = 76.40 PERCENT

FLOW	=	0.00028	TO	0.00119	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.02373	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.12	TO	0.12	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	1.06	TO	1.06	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	17.41	TO	23.46	per day
BOD SETTLING	=	0.06	TO	0.06	per day
NBOD DECAY	=	0.05	TO	0.05	per day
NBOD SETTLING	=	0.06	TO	0.06	per day
TEMPERATURE	=	28.40	TO	28.40	deg C
DISSOLVED OXYGEN	=	5.35	TO	6.53	mg/L

FINAL REPORT Ditch #4 Keller Barn
REACH NO. 11 Keller Barn Ditch

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
240	HDWTR	0.00028	28.40	0.01	5.60	51.60	5.00	0.82	0.00	0.82	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00
241	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
240	0.90	0.80	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
241	0.80	0.70	0.00029	2.6	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
242	0.70	0.60	0.00029	2.6	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
243	0.60	0.50	0.00029	2.6	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
244	0.50	0.40	0.00029	2.6	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
245	0.40	0.30	0.00029	2.6	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
246	0.30	0.20	0.00029	2.6	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
247	0.20	0.10	0.00029	2.6	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
248	0.10	0.00	0.00029	2.6	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
TOT						1.82			45.00	900.00					
AVG					0.0057		0.05	1.00			0.05				

CUM 1.82

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
240	0.800	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
241	0.700	7.77	17.46	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
242	0.600	7.77	17.46	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
243	0.500	7.77	17.46	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
244	0.400	7.77	17.46	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
245	0.300	7.77	17.46	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
246	0.200	7.77	17.46	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247	0.100	7.77	17.46	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	0.000	7.77	17.46	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			14.92	0.08	0.05	0.00	0.00	0.00	0.00	0.19			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
240	0.800	28.40	0.01	5.60	51.60	6.88	0.82	0.00	0.82	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
241	0.700	28.40	0.02	6.98	69.25	7.25	1.38	0.00	1.38	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
242	0.600	28.40	0.02	6.98	69.25	7.36	1.35	0.00	1.35	0.00	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
243	0.500	28.40	0.02	6.98	69.25	7.39	1.33	0.00	1.33	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
244	0.400	28.40	0.02	6.98	69.25	7.39	1.30	0.00	1.30	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
245	0.300	28.40	0.02	6.98	69.25	7.39	1.28	0.00	1.28	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
246	0.200	28.40	0.02	6.98	69.25	7.39	1.25	0.00	1.25	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
247	0.100	28.40	0.02	6.98	69.25	7.40	1.23	0.00	1.23	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
248	0.000	28.40	0.02	6.98	69.25	7.40	1.21	0.00	1.21	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch #4 Keller Barn

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

TRAVEL TIME = 1.82 DAYS

MAXIMUM EFFLUENT = 2.64 PERCENT

FLOW	=	0.00028	TO	0.00029	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.00575	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.12	TO	0.12	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.32	TO	0.32	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	17.41	TO	17.46	per day
BOD SETTLING	=	0.06	TO	0.06	per day
NBOD DECAY	=	0.05	TO	0.05	per day
NBOD SETTLING	=	0.06	TO	0.06	per day
TEMPERATURE	=	28.40	TO	28.40	deg C
DISSOLVED OXYGEN	=	6.88	TO	7.40	mg/L

FINAL REPORT Ditch#5 Beau Village
REACH NO. 13 Beau Village Ditch

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
276	HDWTR	0.00028	28.40	0.01	5.60	51.60	5.00	0.82	0.00	0.82	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00
277	WSTLD	0.00131	30.60	0.37	57.90	719.70	2.00	11.50	0.00	11.50	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s

276	3.00	2.90	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
277	2.90	2.80	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
278	2.80	2.70	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
279	2.70	2.60	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
280	2.60	2.50	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
281	2.50	2.40	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
282	2.40	2.30	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
283	2.30	2.20	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
284	2.20	2.10	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
285	2.10	2.00	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
286	2.00	1.90	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
287	1.90	1.80	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
288	1.80	1.70	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
289	1.70	1.60	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
290	1.60	1.50	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
291	1.50	1.40	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
292	1.40	1.30	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
293	1.30	1.20	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
294	1.20	1.10	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
295	1.10	1.00	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
296	1.00	0.90	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
297	0.90	0.80	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
298	0.80	0.70	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
299	0.70	0.60	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
300	0.60	0.50	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
301	0.50	0.40	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
302	0.40	0.30	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
303	0.30	0.20	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
304	0.20	0.10	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
305	0.10	0.00	0.00159	82.4	0.03189	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.032
TOT						1.26			150.00	3000.00					
AVG					0.0276		0.05	1.00			0.05				
CUM						1.26									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
276	2.900	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
277	2.800	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
278	2.700	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
279	2.600	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
280	2.500	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
281	2.400	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
282	2.300	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
283	2.200	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
284	2.100	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285	2.000	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
286	1.900	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
287	1.800	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
288	1.700	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
289	1.600	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
290	1.500	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
291	1.400	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292	1.300	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293	1.200	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
294	1.100	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
295	1.000	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
296	0.900	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
297	0.800	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
298	0.700	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299	0.600	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	0.500	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
301	0.400	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
302	0.300	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
303	0.200	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
304	0.100	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
305	0.000	7.76	26.19	0.12	0.06	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			22.14	0.08	0.05	0.00	0.00	0.00	0.00	0.19			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM

276	2.900	28.40	0.01	5.60	51.60	6.88	0.82	0.00	0.82	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
277	2.800	28.40	0.31	48.72	602.37	5.10	9.57	0.00	9.57	0.00	7.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
278	2.700	28.40	0.31	48.72	602.37	6.25	9.51	0.00	9.51	0.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
279	2.600	28.40	0.31	48.72	602.37	6.84	9.45	0.00	9.45	0.00	7.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
280	2.500	28.40	0.31	48.72	602.37	7.14	9.40	0.00	9.40	0.00	7.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
281	2.400	28.40	0.31	48.72	602.37	7.30	9.34	0.00	9.34	0.00	7.02	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
282	2.300	28.40	0.31	48.72	602.37	7.38	9.28	0.00	9.28	0.00	6.99	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
283	2.200	28.40	0.31	48.72	602.37	7.42	9.23	0.00	9.23	0.00	6.96	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
284	2.100	28.40	0.31	48.72	602.37	7.44	9.17	0.00	9.17	0.00	6.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
285	2.000	28.40	0.31	48.72	602.37	7.45	9.12	0.00	9.12	0.00	6.91	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
286	1.900	28.40	0.31	48.72	602.37	7.46	9.06	0.00	9.06	0.00	6.88	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
287	1.800	28.40	0.31	48.72	602.37	7.46	9.01	0.00	9.01	0.00	6.85	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
288	1.700	28.40	0.31	48.72	602.37	7.46	8.96	0.00	8.96	0.00	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
289	1.600	28.40	0.31	48.72	602.37	7.46	8.90	0.00	8.90	0.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
290	1.500	28.40	0.31	48.72	602.37	7.46	8.85	0.00	8.85	0.00	6.77	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
291	1.400	28.40	0.31	48.72	602.37	7.46	8.80	0.00	8.80	0.00	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
292	1.300	28.40	0.31	48.72	602.37	7.46	8.74	0.00	8.74	0.00	6.72	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
293	1.200	28.40	0.31	48.72	602.37	7.46	8.69	0.00	8.69	0.00	6.69	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
294	1.100	28.40	0.31	48.72	602.37	7.46	8.64	0.00	8.64	0.00	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
295	1.000	28.40	0.31	48.72	602.37	7.46	8.59	0.00	8.59	0.00	6.64	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
296	0.900	28.40	0.31	48.72	602.37	7.46	8.54	0.00	8.54	0.00	6.62	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
297	0.800	28.40	0.31	48.72	602.37	7.46	8.49	0.00	8.49	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
298	0.700	28.40	0.31	48.72	602.37	7.46	8.44	0.00	8.44	0.00	6.56	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
299	0.600	28.40	0.31	48.72	602.37	7.46	8.39	0.00	8.39	0.00	6.54	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
300	0.500	28.40	0.31	48.72	602.37	7.46	8.34	0.00	8.34	0.00	6.51	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
301	0.400	28.40	0.31	48.72	602.37	7.47	8.29	0.00	8.29	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
302	0.300	28.40	0.31	48.72	602.37	7.47	8.24	0.00	8.24	0.00	6.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
303	0.200	28.40	0.31	48.72	602.37	7.47	8.19	0.00	8.19	0.00	6.44	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
304	0.100	28.40	0.31	48.72	602.37	7.47	8.14	0.00	8.14	0.00	6.41	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
305	0.000	28.40	0.31	48.72	602.37	7.47	8.09	0.00	8.09	0.00	6.39	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch#5 Beau Village

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

TRAVEL TIME = 1.26 DAYS

MAXIMUM EFFLUENT = 82.44 PERCENT

FLOW	=	0.00028	TO	0.00159	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.03189	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.12	TO	0.12	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.32	TO	0.32	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	17.41	TO	26.19	per day
BOD SETTLING	=	0.06	TO	0.06	per day
NBOD DECAY	=	0.05	TO	0.05	per day
NBOD SETTLING	=	0.06	TO	0.06	per day
TEMPERATURE	=	28.40	TO	28.40	deg C
DISSOLVED OXYGEN	=	5.10	TO	7.47	mg/L

FINAL REPORT Ditch #6 Hwy 190 BL
REACH NO. 16 Hwy 190 Ditch BL

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
341	HDWTR	0.00028	28.40	0.01	5.60	51.60	4.00	1.65	0.00	1.65	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00
342	WSTLD	0.00011	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
344	WSTLD	0.00010	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
349	WSTLD	0.00002	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
350	WSTLD	0.00042	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
352	WSTLD	0.00080	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
353	WSTLD	0.00005	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
354	WSTLD	0.00025	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00
358	WSTLD	0.00018	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
360	WSTLD	0.00120	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s

341	2.20	2.10	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
342	2.10	2.00	0.00039	27.6	0.00774	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
343	2.00	1.90	0.00039	27.6	0.00774	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
344	1.90	1.80	0.00048	42.0	0.00965	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
345	1.80	1.70	0.00048	42.0	0.00965	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
346	1.70	1.60	0.00048	42.0	0.00965	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
347	1.60	1.50	0.00048	42.0	0.00965	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
348	1.50	1.40	0.00048	42.0	0.00965	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
349	1.40	1.30	0.00050	44.4	0.01007	0.11	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
350	1.30	1.20	0.00093	69.8	0.01856	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.019
351	1.20	1.10	0.00093	69.8	0.01856	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.019
352	1.10	1.00	0.00173	83.8	0.03464	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.035
353	1.00	0.90	0.00178	84.3	0.03561	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.036
354	0.90	0.80	0.00203	86.2	0.04065	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.041
355	0.80	0.70	0.00203	86.2	0.04065	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.041
356	0.70	0.60	0.00203	86.2	0.04065	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.041
357	0.60	0.50	0.00203	86.2	0.04065	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.041
358	0.50	0.40	0.00221	87.3	0.04417	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.044
359	0.40	0.30	0.00221	87.3	0.04417	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.044
360	0.30	0.20	0.00341	91.8	0.06826	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.068
361	0.20	0.10	0.00341	91.8	0.06826	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.068
362	0.10	0.00	0.00341	91.8	0.06826	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.068
TOT						1.63			110.00	2200.00					
AVG					0.0156		0.05	1.00			0.05				
CUM						1.63									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
341	2.100	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
342	2.000	7.77	18.12	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
343	1.900	7.77	18.12	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
344	1.800	7.77	18.76	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
345	1.700	7.77	18.76	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
346	1.600	7.77	18.76	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
347	1.500	7.77	18.76	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
348	1.400	7.77	18.76	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
349	1.300	7.77	18.90	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
350	1.200	7.76	21.74	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
351	1.100	7.76	21.74	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
352	1.000	7.76	27.11	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
353	0.900	7.76	27.44	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00
354	0.800	7.76	29.12	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
355	0.700	7.76	29.12	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
356	0.600	7.76	29.12	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
357	0.500	7.76	29.12	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
358	0.400	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
359	0.300	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
360	0.200	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
361	0.100	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
362	0.000	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			20.48	0.08	0.05	0.00	0.00	0.00	0.00	0.38			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
341	2.100	28.40	0.01	5.60	51.60	6.37	1.64	0.00	1.64	0.00	0.75	0.00	0.00	0.00	0.00	0.45	0.00	0.	0.00
342	2.000	28.40	0.11	20.04	236.07	6.47	13.56	0.00	13.56	0.00	12.22	0.00	0.00	0.00	0.00	0.91	0.00	0.	0.00
343	1.900	28.40	0.11	20.04	236.07	6.82	13.24	0.00	13.24	0.00	12.03	0.00	0.00	0.00	0.00	1.36	0.00	0.	0.00
344	1.800	28.40	0.16	27.56	332.15	6.60	19.36	0.00	19.36	0.00	17.95	0.00	0.00	0.00	0.00	1.82	0.00	0.	0.00
345	1.700	28.40	0.16	27.56	332.15	6.83	18.98	0.00	18.98	0.00	17.72	0.00	0.00	0.00	0.00	2.27	0.00	0.	0.00
346	1.600	28.40	0.16	27.56	332.15	6.90	18.61	0.00	18.61	0.00	17.49	0.00	0.00	0.00	0.00	2.73	0.00	0.	0.00
347	1.500	28.40	0.16	27.56	332.15	6.93	18.25	0.00	18.25	0.00	17.27	0.00	0.00	0.00	0.00	3.18	0.00	0.	0.00
348	1.400	28.40	0.16	27.56	332.15	6.94	17.90	0.00	17.90	0.00	17.05	0.00	0.00	0.00	0.00	3.64	0.00	0.	0.00
349	1.300	28.40	0.17	28.82	348.16	6.88	18.70	0.00	18.70	0.00	17.90	0.00	0.00	0.00	0.00	4.09	0.00	0.	0.00
350	1.200	28.40	0.26	42.12	518.10	5.98	30.86	0.00	30.86	0.00	29.18	0.00	0.00	0.00	0.00	4.55	0.00	0.	0.00
351	1.100	28.40	0.26	42.12	518.10	6.54	30.53	0.00	30.53	0.00	28.98	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00
352	1.000	28.40	0.31	49.44	611.69	5.69	37.50	0.00	37.50	0.00	35.36	0.00	0.00	0.00	0.00	5.45	0.00	0.	0.00
353	0.900	28.40	0.31	49.68	614.65	6.29	37.52	0.00	37.52	0.00	35.44	0.00	0.00	0.00	0.00	5.91	0.00	0.	0.00
354	0.800	28.40	0.32	50.70	627.67	6.38	35.55	0.00	35.55	0.00	33.61	0.00	0.00	0.00	0.00	6.36	0.00	0.	0.00
355	0.700	28.40	0.32	50.70	627.67	6.73	35.37	0.00	35.37	0.00	33.51	0.00	0.00	0.00	0.00	6.82	0.00	0.	0.00
356	0.600	28.40	0.32	50.70	627.67	6.91	35.20	0.00	35.20	0.00	33.40	0.00	0.00	0.00	0.00	7.27	0.00	0.	0.00

357	0.500	28.40	0.32	50.70	627.67	7.02	35.03	0.00	35.03	0.00	33.30	0.00	0.00	0.00	0.00	7.73	0.00	0.	0.00
358	0.400	28.40	0.32	51.27	634.99	6.84	35.74	0.00	35.74	0.00	33.97	0.00	0.00	0.00	0.00	8.18	0.00	0.	0.00
359	0.300	28.40	0.32	51.27	634.99	6.97	35.58	0.00	35.58	0.00	33.87	0.00	0.00	0.00	0.00	8.64	0.00	0.	0.00
360	0.200	28.40	0.34	53.61	664.89	5.85	39.14	0.00	39.14	0.00	37.03	0.00	0.00	0.00	0.00	9.09	0.00	0.	0.00
361	0.100	28.40	0.34	53.61	664.89	6.27	39.03	0.00	39.03	0.00	36.96	0.00	0.00	0.00	0.00	9.55	0.00	0.	0.00
362	0.000	28.40	0.34	53.61	664.89	6.56	38.92	0.00	38.92	0.00	36.89	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY
Ditch #6 Hwy 190 BL

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

TRAVEL TIME = 1.63 DAYS

MAXIMUM EFFLUENT = 91.80 PERCENT

FLOW	=	0.00028	TO	0.00341	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.06826	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.12	TO	0.12	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.64	TO	0.64	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	17.41	TO	29.24	per day
BOD SETTLING	=	0.06	TO	0.06	per day
NBOD DECAY	=	0.05	TO	0.05	per day
NBOD SETTLING	=	0.06	TO	0.06	per day
TEMPERATURE	=	28.40	TO	28.40	deg C
DISSOLVED OXYGEN	=	5.69	TO	7.02	mg/L

FINAL REPORT Ditch#7 Hwy434/190BL
REACH NO. 18 Hwy 434/190 Ditch BL

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
373	HDWTR	0.00028	28.40	0.01	5.60	51.60	4.00	1.65	0.00	1.65	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00
374	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
390	WSTLD	0.00004	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
391	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
373	2.20	2.10	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
374	2.10	2.00	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
375	2.00	1.90	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
376	1.90	1.80	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
377	1.80	1.70	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
378	1.70	1.60	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
379	1.60	1.50	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
380	1.50	1.40	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
381	1.40	1.30	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
382	1.30	1.20	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
383	1.20	1.10	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
384	1.10	1.00	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
385	1.00	0.90	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
386	0.90	0.80	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
387	0.80	0.70	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
388	0.70	0.60	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
389	0.60	0.50	0.00028	0.4	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
390	0.50	0.40	0.00032	13.1	0.00644	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
391	0.40	0.30	0.00033	16.2	0.00668	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
392	0.30	0.20	0.00033	16.2	0.00668	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
393	0.20	0.10	0.00033	16.2	0.00668	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
394	0.10	0.00	0.00033	16.2	0.00668	0.17	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
TOT						4.37			110.00	2200.00					
AVG					0.0058		0.05	1.00			0.05				
CUM						4.37									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
373	2.100	7.76	17.44	0.12	0.06	0.00	0.00	0.00	0.00	0.64	0.64	0.64	0.05	0.06	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
374	2.000	7.74	17.48	0.12	0.06	0.00	0.00	0.00	0.00	0.65	0.65	0.65	0.05	0.06	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
375	1.900	7.73	17.51	0.12	0.06	0.00	0.00	0.00	0.00	0.65	0.65	0.65	0.05	0.06	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
376	1.800	7.71	17.55	0.12	0.06	0.00	0.00	0.00	0.00	0.65	0.65	0.65	0.05	0.06	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
377	1.700	7.70	17.58	0.12	0.06	0.00	0.00	0.00	0.00	0.66	0.66	0.66	0.05	0.06	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
378	1.600	7.68	17.62	0.12	0.06	0.00	0.00	0.00	0.00	0.66	0.66	0.66	0.05	0.06	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
379	1.500	7.67	17.65	0.12	0.06	0.00	0.00	0.00	0.00	0.67	0.67	0.67	0.05	0.06	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
380	1.400	7.65	17.68	0.12	0.06	0.00	0.00	0.00	0.00	0.67	0.67	0.67	0.05	0.06	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
381	1.300	7.64	17.72	0.12	0.06	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.06	0.06	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
382	1.200	7.62	17.75	0.12	0.06	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.06	0.06	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
383	1.100	7.61	17.78	0.12	0.06	0.00	0.00	0.00	0.00	0.69	0.69	0.69	0.06	0.06	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
384	1.000	7.60	17.82	0.12	0.06	0.00	0.00	0.00	0.00	0.69	0.69	0.69	0.06	0.06	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00
385	0.900	7.58	17.85	0.13	0.06	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.06	0.06	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
386	0.800	7.57	17.88	0.13	0.06	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.06	0.06	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
387	0.700	7.55	17.92	0.13	0.06	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.06	0.06	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
388	0.600	7.54	17.95	0.13	0.06	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.06	0.06	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
389	0.500	7.52	17.99	0.13	0.06	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.06	0.06	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
390	0.400	7.51	18.30	0.13	0.06	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.06	0.06	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
391	0.300	7.49	18.42	0.13	0.06	0.00	0.00	0.00	0.00	0.73	0.73	0.73	0.06	0.06	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
392	0.200	7.48	18.46	0.13	0.06	0.00	0.00	0.00	0.00	0.73	0.73	0.73	0.06	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
393	0.100	7.47	18.49	0.13	0.06	0.00	0.00	0.00	0.00	0.74	0.74	0.74	0.06	0.06	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
394	0.000	7.45	18.52	0.13	0.06	0.00	0.00	0.00	0.00	0.74	0.74	0.74	0.06	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			14.95	0.08	0.05	0.00	0.00	0.00	0.00	0.38			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
373	2.100	28.51	0.01	5.60	51.60	6.36	1.64	0.00	1.64	0.00	0.75	0.00	0.00	0.00	0.00	0.45	0.00	0.	0.00
374	2.000	28.62	0.01	5.80	54.21	6.85	1.79	0.00	1.79	0.00	0.91	0.00	0.00	0.00	0.00	0.91	0.00	0.	0.00
375	1.900	28.73	0.01	5.80	54.21	6.95	1.78	0.00	1.78	0.00	0.90	0.00	0.00	0.00	0.00	1.36	0.00	0.	0.00
376	1.800	28.84	0.01	5.80	54.21	6.96	1.76	0.00	1.76	0.00	0.89	0.00	0.00	0.00	0.00	1.82	0.00	0.	0.00
377	1.700	28.95	0.01	5.80	54.21	6.95	1.74	0.00	1.74	0.00	0.89	0.00	0.00	0.00	0.00	2.27	0.00	0.	0.00
378	1.600	29.05	0.01	5.80	54.21	6.93	1.73	0.00	1.73	0.00	0.88	0.00	0.00	0.00	0.00	2.73	0.00	0.	0.00
379	1.500	29.16	0.01	5.80	54.21	6.92	1.71	0.00	1.71	0.00	0.88	0.00	0.00	0.00	0.00	3.18	0.00	0.	0.00
380	1.400	29.27	0.01	5.80	54.21	6.90	1.69	0.00	1.69	0.00	0.87	0.00	0.00	0.00	0.00	3.64	0.00	0.	0.00
381	1.300	29.38	0.01	5.80	54.21	6.88	1.68	0.00	1.68	0.00	0.86	0.00	0.00	0.00	0.00	4.09	0.00	0.	0.00
382	1.200	29.49	0.01	5.80	54.21	6.87	1.66	0.00	1.66	0.00	0.86	0.00	0.00	0.00	0.00	4.55	0.00	0.	0.00
383	1.100	29.60	0.01	5.80	54.21	6.85	1.65	0.00	1.65	0.00	0.85	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00
384	1.000	29.71	0.01	5.80	54.21	6.83	1.63	0.00	1.63	0.00	0.85	0.00	0.00	0.00	0.00	5.45	0.00	0.	0.00
385	0.900	29.82	0.01	5.80	54.21	6.82	1.62	0.00	1.62	0.00	0.84	0.00	0.00	0.00	0.00	5.91	0.00	0.	0.00
386	0.800	29.93	0.01	5.80	54.21	6.80	1.61	0.00	1.61	0.00	0.84	0.00	0.00	0.00	0.00	6.36	0.00	0.	0.00
387	0.700	30.04	0.01	5.80	54.21	6.79	1.59	0.00	1.59	0.00	0.83	0.00	0.00	0.00	0.00	6.82	0.00	0.	0.00
388	0.600	30.15	0.01	5.80	54.21	6.77	1.58	0.00	1.58	0.00	0.82	0.00	0.00	0.00	0.00	7.27	0.00	0.	0.00
389	0.500	30.25	0.01	5.80	54.21	6.75	1.57	0.00	1.57	0.00	0.82	0.00	0.00	0.00	0.00	7.73	0.00	0.	0.00
390	0.400	30.36	0.06	12.45	139.10	6.56	7.03	0.00	7.03	0.00	6.08	0.00	0.00	0.00	0.00	8.18	0.00	0.	0.00
391	0.300	30.47	0.07	14.08	159.95	6.60	8.20	0.00	8.20	0.00	7.26	0.00	0.00	0.00	0.00	8.64	0.00	0.	0.00
392	0.200	30.58	0.07	14.08	159.95	6.64	7.97	0.00	7.97	0.00	7.12	0.00	0.00	0.00	0.00	9.09	0.00	0.	0.00
393	0.100	30.69	0.07	14.08	159.95	6.64	7.75	0.00	7.75	0.00	6.99	0.00	0.00	0.00	0.00	9.55	0.00	0.	0.00
394	0.000	30.80	0.07	14.08	159.95	6.63	7.54	0.00	7.54	0.00	6.85	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY
Ditch#7 Hwy434/190BL

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

TRAVEL TIME	=	4.37	DAYS		
MAXIMUM EFFLUENT	=	16.22	PERCENT		
FLOW	=	0.00028	TO	0.00033	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.00668	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.12	TO	0.13	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.64	TO	0.74	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	17.44	TO	18.52	per day
BOD SETTLING	=	0.06	TO	0.06	per day
NBOD DECAY	=	0.05	TO	0.06	per day
NBOD SETTLING	=	0.06	TO	0.06	per day

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TEMPERATURE       =   28.51   TO   30.80      deg C
DISSOLVED OXYGEN  =    6.36   TO    6.96      mg/L


FINAL REPORT    Big Branch Bayou                                BAYOU LACOMBE WATERSHED MODEL
REACH NO. 21    BB03 to Hwy 434/I-12 ditch BBB                  Sumr 4,5 DO curr criteria
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********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
426	HDWTR	0.00900	28.40	0.00	10.40	95.61	4.00	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	2.60	0.00	0.00
EACH	INCR	0.01475	21.66	0.00	10.40	95.61	4.00	0.67	0.00			0.01	0.00	0.00	0.00	0.00	0.00	

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
426	5.20	5.19	0.02375	0.0	0.01664	0.01	0.39	3.66	14.27	36.60	1.43	1.39	0.000	0.500	0.017
427	5.19	5.18	0.03850	0.0	0.02697	0.00	0.39	3.66	14.27	36.60	1.43	2.78	0.000	0.500	0.027
428	5.18	5.17	0.05325	0.0	0.03731	0.00	0.39	3.66	14.27	36.60	1.43	4.17	0.000	0.500	0.037
429	5.17	5.16	0.06800	0.0	0.04764	0.00	0.39	3.66	14.27	36.60	1.43	5.56	0.000	0.500	0.048
430	5.16	5.15	0.08275	0.0	0.05797	0.00	0.39	3.66	14.27	36.60	1.43	6.95	0.000	0.500	0.058
431	5.15	5.14	0.09750	0.0	0.06831	0.00	0.39	3.66	14.27	36.60	1.43	8.34	0.000	0.500	0.068
432	5.14	5.13	0.11225	0.0	0.07864	0.00	0.39	3.66	14.27	36.60	1.43	9.74	0.000	0.500	0.079
433	5.13	5.12	0.12700	0.0	0.08898	0.00	0.39	3.66	14.27	36.60	1.43	11.13	0.000	0.500	0.089
434	5.12	5.11	0.14175	0.0	0.09931	0.00	0.39	3.66	14.27	36.60	1.43	12.52	0.000	0.500	0.099
435	5.11	5.10	0.15651	0.0	0.10964	0.00	0.39	3.66	14.27	36.60	1.43	13.91	0.000	0.500	0.110
TOT						0.03			142.74	366.00					
AVG					0.0455		0.39	3.66			1.43				
CUM						0.03									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
426	5.190	7.77	2.10	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.91	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
427	5.180	7.77	2.10	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.91	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
428	5.170	7.77	2.13	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.91	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
429	5.160	7.77	2.27	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.91	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
430	5.150	7.77	2.40	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.91	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
431	5.140	7.77	2.51	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.91	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
432	5.130	7.77	2.61	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.91	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
433	5.120	7.77	2.70	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.91	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
434	5.110	7.77	2.78	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.91	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
435	5.100	7.77	2.85	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.91	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.09	0.07	0.05	0.00	0.00	0.00	0.00	0.50			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
426	5.190	28.40	0.00	10.40	95.62	4.05	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
427	5.180	28.40	0.00	10.40	95.62	4.05	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
428	5.170	28.40	0.00	10.40	95.62	4.06	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
429	5.160	28.40	0.00	10.40	95.63	4.06	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
430	5.150	28.40	0.00	10.40	95.66	4.06	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
431	5.140	28.40	0.00	10.41	95.71	4.07	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
432	5.130	28.40	0.00	10.42	95.86	4.07	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
433	5.120	28.40	0.00	10.45	96.24	4.07	0.68	0.00	0.68	0.00	0.02	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
434	5.110	28.40	0.00	10.53	97.37	4.09	0.70	0.00	0.70	0.00	0.03	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
435	5.100	28.40	0.00	10.80	100.87	4.11	0.75	0.00	0.75	0.00	0.08	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

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FINAL REPORT    Big Branch Bayou                                BAYOU LACOMBE WATERSHED MODEL
REACH NO. 23    Hwy434/I-12DitchBBBtoFolgerDitch                Sumr 4,5 DO curr criteria
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********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
501	UPR RCH	0.15651	28.40	0.00	10.80	100.87	4.11	0.75	0.00	0.75	0.00	0.08	0.00	0.00	0.00	2.60	0.00	0.00
501	TRIB	0.00360	28.40	0.34	54.21	671.22	7.57	9.62	0.00	9.62	0.00	7.42	0.00	0.00	0.00	2.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
501	5.10	5.09	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	16.69	0.000	1.000	0.112
502	5.09	5.08	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	19.47	0.000	1.000	0.112
503	5.08	5.07	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	22.25	0.000	1.000	0.112
504	5.07	5.06	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	25.03	0.000	1.000	0.112
505	5.06	5.05	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	27.82	0.000	1.000	0.112
506	5.05	5.04	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	30.60	0.000	1.000	0.112
507	5.04	5.03	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	33.38	0.001	1.000	0.112
508	5.03	5.02	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	36.16	0.001	1.000	0.112
509	5.02	5.01	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	38.94	0.001	1.000	0.112
510	5.01	5.00	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	41.72	0.001	1.000	0.112
511	5.00	4.99	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	44.51	0.001	1.000	0.112
512	4.99	4.98	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	47.29	0.001	1.000	0.112
513	4.98	4.97	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	50.07	0.001	1.000	0.112
514	4.97	4.96	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	52.85	0.001	1.000	0.112
515	4.96	4.95	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	55.63	0.001	1.000	0.112
516	4.95	4.94	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	58.41	0.001	1.000	0.112
517	4.94	4.93	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	61.20	0.001	1.000	0.112
518	4.93	4.92	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	63.98	0.001	1.000	0.112
519	4.92	4.91	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	66.76	0.001	1.000	0.112
520	4.91	4.90	0.16011	2.1	0.11217	0.00	0.39	3.66	14.27	36.60	1.43	69.54	0.001	1.000	0.112
TOT						0.02			285.48	732.00					
AVG					0.1122		0.39	3.66			1.43				
CUM						0.05									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
501	5.090	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
502	5.080	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
503	5.070	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
504	5.060	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
505	5.050	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
506	5.040	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
507	5.030	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
508	5.020	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
509	5.010	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
510	5.000	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
511	4.990	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
512	4.980	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
513	4.970	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
514	4.960	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
515	4.950	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
516	4.940	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
517	4.930	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
518	4.920	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
519	4.910	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.92	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
520	4.900	7.77	2.87	0.10	0.06	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.93	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.46	0.07	0.05	0.00	0.00	0.00	0.00	0.50			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
501	5.090	28.40	0.01	11.39	108.57	4.17	0.87	0.00	0.87	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
502	5.080	28.40	0.01	11.39	108.57	4.18	0.87	0.00	0.87	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
503	5.070	28.40	0.01	11.39	108.57	4.18	0.87	0.00	0.87	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
504	5.060	28.40	0.01	11.39	108.57	4.19	0.87	0.00	0.87	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
505	5.050	28.40	0.01	11.39	108.57	4.20	0.87	0.00	0.87	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
506	5.040	28.40	0.01	11.39	108.57	4.21	0.87	0.00	0.87	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
507	5.030	28.40	0.01	11.39	108.57	4.22	0.87	0.00	0.87	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
508	5.020	28.40	0.01	11.39	108.57	4.23	0.87	0.00	0.87	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

509	5.010	28.40	0.01	11.39	108.57	4.23	0.87	0.00	0.87	0.00	0.17	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
510	5.000	28.40	0.01	11.39	108.57	4.24	0.87	0.00	0.87	0.00	0.17	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
511	4.990	28.40	0.01	11.39	108.57	4.25	0.87	0.00	0.87	0.00	0.17	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
512	4.980	28.40	0.01	11.39	108.57	4.26	0.87	0.00	0.87	0.00	0.17	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
513	4.970	28.40	0.01	11.39	108.57	4.27	0.87	0.00	0.87	0.00	0.17	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
514	4.960	28.40	0.01	11.39	108.57	4.27	0.87	0.00	0.87	0.00	0.17	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
515	4.950	28.40	0.01	11.39	108.57	4.28	0.87	0.00	0.87	0.00	0.17	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
516	4.940	28.40	0.01	11.39	108.58	4.29	0.87	0.00	0.87	0.00	0.17	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
517	4.930	28.40	0.01	11.39	108.59	4.30	0.87	0.00	0.87	0.00	0.17	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
518	4.920	28.40	0.01	11.39	108.61	4.31	0.87	0.00	0.87	0.00	0.17	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
519	4.910	28.40	0.01	11.39	108.66	4.32	0.87	0.00	0.87	0.00	0.17	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
520	4.900	28.40	0.01	11.40	108.76	4.33	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 25 Folger Ditch to BB02 Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
525	UPR RCH	0.16011	28.40	0.01	11.40	108.76	4.33	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	2.60	0.00	0.00
525	TRIB	0.00050	28.40	0.16	31.25	369.58	7.39	9.80	0.00	9.80	0.00	3.79	0.00	0.00	0.00	2.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
525	4.90	4.80	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	111.26	0.002	2.000	0.113
526	4.80	4.70	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	152.99	0.002	2.000	0.113
527	4.70	4.60	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	194.71	0.003	2.000	0.113
528	4.60	4.50	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	236.44	0.004	2.000	0.113
529	4.50	4.40	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	278.16	0.004	2.000	0.113
530	4.40	4.30	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	319.88	0.005	2.000	0.113
531	4.30	4.20	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	361.61	0.006	2.000	0.113
532	4.20	4.10	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	403.33	0.006	2.000	0.113
533	4.10	4.00	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	445.06	0.007	2.000	0.113
534	4.00	3.90	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	486.78	0.008	2.000	0.113
535	3.90	3.80	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	528.50	0.008	2.000	0.113
536	3.80	3.70	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	570.23	0.009	2.000	0.113
537	3.70	3.60	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	611.95	0.010	2.000	0.113
538	3.60	3.50	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	653.68	0.010	2.000	0.113
539	3.50	3.40	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	695.40	0.011	2.000	0.113
540	3.40	3.30	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	737.12	0.011	2.000	0.113
541	3.30	3.20	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	778.85	0.012	2.000	0.113
542	3.20	3.10	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	820.57	0.013	2.000	0.113
543	3.10	3.00	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	862.30	0.013	2.000	0.113
544	3.00	2.90	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	904.02	0.014	2.000	0.113
545	2.90	2.80	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	945.74	0.015	2.000	0.113
546	2.80	2.70	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	987.47	0.015	2.000	0.113
547	2.70	2.60	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	1029.19	0.016	2.000	0.113
548	2.60	2.50	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	1070.92	0.017	2.000	0.113
549	2.50	2.40	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	1112.64	0.017	2.000	0.113
550	2.40	2.30	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	1154.36	0.018	2.000	0.113
551	2.30	2.20	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	1196.09	0.019	2.000	0.113
552	2.20	2.10	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	1237.81	0.019	2.000	0.113
553	2.10	2.00	0.16061	2.2	0.11252	0.01	0.39	3.66	142.74	366.00	1.43	1279.54	0.020	2.000	0.113
TOT						0.30			4139.46	10614.00					
AVG					0.1125		0.39	3.66			1.43				
CUM						0.34									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
525	4.800	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.93	0.06	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
526	4.700	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.93	0.06	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
527	4.600	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.93	0.06	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
528	4.500	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.93	0.06	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
529	4.400	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.93	0.06	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
530	4.300	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.94	0.06	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
531	4.200	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.94	0.06	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
532	4.100	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.94	0.06	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
533	4.000	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.94	0.06	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
534	3.900	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.94	0.06	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00

535	3.800	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.94	0.06	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
536	3.700	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.94	0.06	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
537	3.600	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.94	0.06	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
538	3.500	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.95	0.06	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
539	3.400	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.95	0.06	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
540	3.300	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.95	0.06	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
541	3.200	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.95	0.06	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
542	3.100	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.95	0.06	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
543	3.000	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.95	0.06	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
544	2.900	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.95	0.06	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
545	2.800	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.95	0.06	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
546	2.700	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.95	0.06	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
547	2.600	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.95	0.06	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
548	2.500	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.96	0.06	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
549	2.400	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.96	0.06	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
550	2.300	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.96	0.06	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
551	2.200	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.96	0.06	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
552	2.100	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.96	0.06	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
553	2.000	7.77	2.88	0.10	0.06	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.96	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.50			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
525	4.800	28.40	0.01	11.45	109.38	4.36	0.91	0.00	0.91	0.00	0.18	0.00	0.00	0.00	0.00	2.86	0.00	0.	0.00
526	4.700	28.40	0.01	11.45	109.38	4.40	0.93	0.00	0.93	0.00	0.18	0.00	0.00	0.00	0.00	3.11	0.00	0.	0.00
527	4.600	28.40	0.01	11.45	109.38	4.43	0.94	0.00	0.94	0.00	0.18	0.00	0.00	0.00	0.00	3.37	0.00	0.	0.00
528	4.500	28.40	0.01	11.45	109.38	4.46	0.95	0.00	0.95	0.00	0.18	0.00	0.00	0.00	0.00	3.62	0.00	0.	0.00
529	4.400	28.40	0.01	11.45	109.38	4.49	0.97	0.00	0.97	0.00	0.17	0.00	0.00	0.00	0.00	3.88	0.00	0.	0.00
530	4.300	28.40	0.01	11.45	109.38	4.52	0.98	0.00	0.98	0.00	0.17	0.00	0.00	0.00	0.00	4.13	0.00	0.	0.00
531	4.200	28.40	0.01	11.45	109.38	4.55	1.00	0.00	1.00	0.00	0.17	0.00	0.00	0.00	0.00	4.39	0.00	0.	0.00
532	4.100	28.40	0.01	11.45	109.38	4.57	1.01	0.00	1.01	0.00	0.17	0.00	0.00	0.00	0.00	4.64	0.00	0.	0.00
533	4.000	28.40	0.01	11.45	109.38	4.60	1.02	0.00	1.02	0.00	0.17	0.00	0.00	0.00	0.00	4.90	0.00	0.	0.00
534	3.900	28.40	0.01	11.45	109.38	4.63	1.04	0.00	1.04	0.00	0.17	0.00	0.00	0.00	0.00	5.15	0.00	0.	0.00
535	3.800	28.40	0.01	11.45	109.38	4.66	1.05	0.00	1.05	0.00	0.16	0.00	0.00	0.00	0.00	5.41	0.00	0.	0.00
536	3.700	28.40	0.01	11.45	109.38	4.68	1.06	0.00	1.06	0.00	0.16	0.00	0.00	0.00	0.00	5.66	0.00	0.	0.00
537	3.600	28.40	0.01	11.45	109.38	4.71	1.08	0.00	1.08	0.00	0.16	0.00	0.00	0.00	0.00	5.92	0.00	0.	0.00
538	3.500	28.40	0.01	11.45	109.38	4.73	1.09	0.00	1.09	0.00	0.16	0.00	0.00	0.00	0.00	6.17	0.00	0.	0.00
539	3.400	28.40	0.01	11.45	109.38	4.75	1.11	0.00	1.11	0.00	0.16	0.00	0.00	0.00	0.00	6.43	0.00	0.	0.00
540	3.300	28.40	0.01	11.45	109.38	4.78	1.12	0.00	1.12	0.00	0.16	0.00	0.00	0.00	0.00	6.68	0.00	0.	0.00
541	3.200	28.40	0.01	11.45	109.38	4.80	1.13	0.00	1.13	0.00	0.15	0.00	0.00	0.00	0.00	6.94	0.00	0.	0.00
542	3.100	28.40	0.01	11.45	109.38	4.82	1.15	0.00	1.15	0.00	0.15	0.00	0.00	0.00	0.00	7.19	0.00	0.	0.00
543	3.000	28.40	0.01	11.45	109.38	4.85	1.16	0.00	1.16	0.00	0.15	0.00	0.00	0.00	0.00	7.45	0.00	0.	0.00
544	2.900	28.40	0.01	11.45	109.38	4.87	1.17	0.00	1.17	0.00	0.15	0.00	0.00	0.00	0.00	7.70	0.00	0.	0.00
545	2.800	28.40	0.01	11.45	109.38	4.89	1.19	0.00	1.19	0.00	0.15	0.00	0.00	0.00	0.00	7.96	0.00	0.	0.00
546	2.700	28.40	0.01	11.45	109.38	4.91	1.20	0.00	1.20	0.00	0.15	0.00	0.00	0.00	0.00	8.21	0.00	0.	0.00
547	2.600	28.40	0.01	11.45	109.38	4.93	1.21	0.00	1.21	0.00	0.15	0.00	0.00	0.00	0.00	8.47	0.00	0.	0.00
548	2.500	28.40	0.01	11.45	109.38	4.95	1.23	0.00	1.23	0.00	0.14	0.00	0.00	0.00	0.00	8.72	0.00	0.	0.00
549	2.400	28.40	0.01	11.45	109.38	4.97	1.24	0.00	1.24	0.00	0.14	0.00	0.00	0.00	0.00	8.98	0.00	0.	0.00
550	2.300	28.40	0.01	11.45	109.39	4.99	1.25	0.00	1.25	0.00	0.14	0.00	0.00	0.00	0.00	9.23	0.00	0.	0.00
551	2.200	28.40	0.01	11.46	109.46	5.01	1.27	0.00	1.27	0.00	0.14	0.00	0.00	0.00	0.00	9.49	0.00	0.	0.00
552	2.100	28.40	0.01	11.52	109.91	5.02	1.30	0.00	1.30	0.00	0.14	0.00	0.00	0.00	0.00	9.74	0.00	0.	0.00
553	2.000	28.40	0.01	11.90	112.89	5.02	1.43	0.00	1.43	0.00	0.17	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 26 BB02 to Berry Todd Rd Ditch Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
554	UPR RCH	0.16061	28.40	0.01	11.90	112.89	5.02	1.43	0.00	1.43	0.00	0.17	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
554	2.00	1.99	0.16061	2.2	0.00941	0.01	1.12	15.24	170.69	152.40	17.07	1302.70	0.002	2.500	0.009
555	1.99	1.98	0.16061	2.2	0.00941	0.01	1.12	15.24	170.69	152.40	17.07	1325.87	0.002	2.500	0.009
556	1.98	1.97	0.16061	2.2	0.00941	0.01	1.12	15.24	170.69	152.40	17.07	1349.03	0.002	2.500	0.009
557	1.97	1.96	0.16061	2.2	0.00941	0.01	1.12	15.24	170.69	152.40	17.07	1372.20	0.002	2.500	0.009
558	1.96	1.95	0.16061	2.2	0.00941	0.01	1.12	15.24	170.69	152.40	17.07	1395.36	0.002	2.500	0.009

559	1.95	1.94	0.16061	2.2	0.00941	0.01	1.12	15.24	170.69	152.40	17.07	1418.52	0.002	2.500	0.009
560	1.94	1.93	0.16061	2.2	0.00941	0.01	1.12	15.24	170.69	152.40	17.07	1441.69	0.002	2.500	0.009
561	1.93	1.92	0.16061	2.2	0.00941	0.01	1.12	15.24	170.69	152.40	17.07	1464.85	0.002	2.500	0.009
562	1.92	1.91	0.16061	2.2	0.00941	0.01	1.12	15.24	170.69	152.40	17.07	1488.02	0.002	2.500	0.009
563	1.91	1.90	0.16061	2.2	0.00941	0.01	1.12	15.24	170.69	152.40	17.07	1511.18	0.002	2.500	0.009
TOT						0.12			1706.88	1524.00					
AVG					0.0094		1.12	15.24			17.07				
CUM						0.47									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
554	1.990	7.77	0.73	0.08	0.06	0.00	0.00	0.00	0.00	2.97	2.97	2.97	0.17	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
555	1.980	7.77	0.73	0.08	0.06	0.00	0.00	0.00	0.00	2.97	2.97	2.97	0.17	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
556	1.970	7.77	0.73	0.08	0.06	0.00	0.00	0.00	0.00	2.97	2.97	2.97	0.17	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
557	1.960	7.77	0.73	0.08	0.06	0.00	0.00	0.00	0.00	2.97	2.97	2.97	0.17	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
558	1.950	7.77	0.73	0.08	0.06	0.00	0.00	0.00	0.00	2.97	2.97	2.97	0.17	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
559	1.940	7.77	0.73	0.08	0.06	0.00	0.00	0.00	0.00	2.97	2.97	2.97	0.17	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
560	1.930	7.77	0.73	0.08	0.06	0.00	0.00	0.00	0.00	2.97	2.97	2.97	0.17	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
561	1.920	7.77	0.73	0.08	0.06	0.00	0.00	0.00	0.00	2.97	2.97	2.97	0.17	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
562	1.910	7.77	0.73	0.08	0.06	0.00	0.00	0.00	0.00	2.97	2.97	2.97	0.17	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
563	1.900	7.77	0.73	0.08	0.06	0.00	0.00	0.00	0.00	2.97	2.97	2.97	0.17	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.75			0.11	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
554	1.990	28.40	0.01	12.52	117.67	5.00	1.62	0.00	1.62	0.00	0.22	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
555	1.980	28.40	0.01	12.56	117.99	5.00	1.63	0.00	1.63	0.00	0.22	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
556	1.970	28.40	0.01	12.60	118.31	4.99	1.65	0.00	1.65	0.00	0.22	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
557	1.960	28.40	0.01	12.64	118.65	4.99	1.66	0.00	1.66	0.00	0.23	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
558	1.950	28.40	0.01	12.69	118.99	4.99	1.68	0.00	1.68	0.00	0.23	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
559	1.940	28.40	0.01	12.73	119.36	4.99	1.69	0.00	1.69	0.00	0.23	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
560	1.930	28.40	0.01	12.78	119.73	4.99	1.71	0.00	1.71	0.00	0.24	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
561	1.920	28.40	0.02	12.83	120.12	4.99	1.72	0.00	1.72	0.00	0.24	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
562	1.910	28.40	0.02	12.89	120.53	4.98	1.74	0.00	1.74	0.00	0.24	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
563	1.900	28.40	0.02	12.94	120.94	4.98	1.76	0.00	1.76	0.00	0.25	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 28 BerryToddRdDitchtoHwy190DitchBBB Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
584	UPR RCH	0.16061	28.40	0.02	12.94	120.94	4.98	1.76	0.00	1.76	0.00	0.25	0.00	0.00	0.00	10.00	0.00	0.00
584	TRIB	0.00335	28.40	0.34	53.93	667.49	7.54	19.94	0.00	19.94	0.00	7.62	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
584	1.90	1.80	0.16396	4.0	0.00961	0.12	1.12	15.24	1706.88	1524.00	17.07	1742.83	0.002	3.500	0.010
585	1.80	1.70	0.16396	4.0	0.00961	0.12	1.12	15.24	1706.88	1524.00	17.07	1974.48	0.003	3.500	0.010
586	1.70	1.60	0.16396	4.0	0.00961	0.12	1.12	15.24	1706.88	1524.00	17.07	2206.13	0.003	3.500	0.010
587	1.60	1.50	0.16396	4.0	0.00961	0.12	1.12	15.24	1706.88	1524.00	17.07	2437.78	0.003	3.500	0.010
588	1.50	1.40	0.16396	4.0	0.00961	0.12	1.12	15.24	1706.88	1524.00	17.07	2669.42	0.003	3.500	0.010
589	1.40	1.30	0.16396	4.0	0.00961	0.12	1.12	15.24	1706.88	1524.00	17.07	2901.07	0.004	3.500	0.010
590	1.30	1.20	0.16396	4.0	0.00961	0.12	1.12	15.24	1706.88	1524.00	17.07	3132.72	0.004	3.500	0.010
591	1.20	1.10	0.16396	4.0	0.00961	0.12	1.12	15.24	1706.88	1524.00	17.07	3364.37	0.004	3.500	0.010
592	1.10	1.00	0.16396	4.0	0.00961	0.12	1.12	15.24	1706.88	1524.00	17.07	3596.02	0.005	3.500	0.010
593	1.00	0.90	0.16396	4.0	0.00961	0.12	1.12	15.24	1706.88	1524.00	17.07	3827.66	0.005	3.500	0.010
594	0.90	0.80	0.16396	4.0	0.00961	0.12	1.12	15.24	1706.88	1524.00	17.07	4059.31	0.005	3.500	0.010
TOT						1.33			18775.68	16764.00					
AVG					0.0096		1.12	15.24			17.07				
CUM						1.79									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
584	1.800	7.74	0.73	0.08	0.06	0.00	0.00	0.00	0.00	3.01	3.01	3.01	0.17	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
585	1.700	7.71	0.74	0.08	0.06	0.00	0.00	0.00	0.00	3.05	3.05	3.05	0.18	0.06	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
586	1.600	7.68	0.74	0.08	0.06	0.00	0.00	0.00	0.00	3.10	3.10	3.10	0.18	0.06	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
587	1.500	7.65	0.74	0.08	0.06	0.00	0.00	0.00	0.00	3.14	3.14	3.14	0.18	0.06	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
588	1.400	7.62	0.75	0.08	0.06	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.18	0.06	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
589	1.300	7.60	0.75	0.08	0.06	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.18	0.06	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
590	1.200	7.57	0.75	0.08	0.06	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.19	0.06	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
591	1.100	7.54	0.75	0.08	0.06	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.19	0.06	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
592	1.000	7.51	0.76	0.09	0.06	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.19	0.06	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
593	0.900	7.48	0.76	0.09	0.06	0.00	0.00	0.00	0.00	3.41	3.41	3.41	0.19	0.06	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
594	0.800	7.45	0.76	0.09	0.06	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.20	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.75			0.11	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
584	1.800	28.62	0.02	13.17	122.70	4.97	1.83	0.00	1.83	0.00	0.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
585	1.700	28.84	0.02	13.40	123.23	4.95	1.88	0.00	1.88	0.00	0.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
586	1.600	29.05	0.02	13.70	123.90	4.91	1.93	0.00	1.93	0.00	0.26	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
587	1.500	29.27	0.02	14.08	124.76	4.88	1.99	0.00	1.99	0.00	0.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
588	1.400	29.49	0.02	14.56	125.86	4.84	2.05	0.00	2.05	0.00	0.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
589	1.300	29.71	0.02	15.18	127.25	4.80	2.14	0.00	2.14	0.00	0.28	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
590	1.200	29.93	0.02	15.96	129.03	4.75	2.23	0.00	2.23	0.00	0.29	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
591	1.100	30.15	0.03	16.96	131.30	4.71	2.36	0.00	2.36	0.00	0.30	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
592	1.000	30.36	0.03	18.24	134.19	4.65	2.51	0.00	2.51	0.00	0.33	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
593	0.900	30.58	0.03	19.86	137.87	4.60	2.69	0.00	2.69	0.00	0.36	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
594	0.800	30.80	0.04	21.93	142.56	4.53	2.93	0.00	2.93	0.00	0.41	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 30 Hwy 190 Ditch BBB to BB01 Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
608	UPR RCH	0.16396	30.80	0.04	21.93	142.56	4.53	2.93	0.00	2.93	0.00	0.41	0.00	0.00	0.00	10.00	0.00	0.00
608	TRIB	0.00029	30.80	0.01	11.67	112.31	7.23	0.89	0.00	0.89	0.00	0.42	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
608	0.80	0.70	0.16424	4.0	0.00962	0.12	1.12	15.24	1706.88	1524.00	17.07	4290.96	0.006	5.500	0.010
609	0.70	0.60	0.16424	4.0	0.00962	0.12	1.12	15.24	1706.88	1524.00	17.07	4522.61	0.006	5.500	0.010
610	0.60	0.50	0.16424	4.0	0.00962	0.12	1.12	15.24	1706.88	1524.00	17.07	4754.26	0.006	5.500	0.010
611	0.50	0.40	0.16424	4.0	0.00962	0.12	1.12	15.24	1706.88	1524.00	17.07	4985.90	0.006	5.500	0.010
612	0.40	0.30	0.16424	4.0	0.00962	0.12	1.12	15.24	1706.88	1524.00	17.07	5217.55	0.007	5.500	0.010
TOT						0.60			8534.40	7620.00					
AVG					0.0096		1.12	15.24			17.07				
CUM						2.39									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
608	0.700	7.45	0.76	0.09	0.06	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.20	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
609	0.600	7.45	0.76	0.09	0.06	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.20	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
610	0.500	7.45	0.76	0.09	0.06	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.19	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
611	0.400	7.45	0.76	0.09	0.06	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.19	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
612	0.300	7.45	0.76	0.09	0.06	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.19	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE	0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.75		0.11	0.05	0.00	0.00	0.00	0.00		0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
608	0.700	30.80	0.04	23.98	147.21	4.48	3.17	0.00	3.17	0.00	0.45	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
609	0.600	30.80	0.04	26.02	151.84	4.44	3.39	0.00	3.39	0.00	0.50	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
610	0.500	30.80	0.05	28.42	157.28	4.39	3.64	0.00	3.64	0.00	0.56	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
611	0.400	30.80	0.06	31.24	163.67	4.35	3.93	0.00	3.93	0.00	0.64	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
612	0.300	30.80	0.06	34.55	171.18	4.30	4.26	0.00	4.26	0.00	0.73	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 31 BB01toConfluenceWithBayouLacombe Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
613	UPR RCH	0.16424	30.80	0.06	34.55	171.18	4.30	4.26	0.00	4.26	0.00	0.73	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
613	0.30	0.20	0.16424	4.0	0.00195	0.59	2.13	39.62	8439.06	3962.00	84.39	5819.78	0.002	7.500	0.002
614	0.20	0.10	0.16424	4.0	0.00195	0.59	2.13	39.62	8439.06	3962.00	84.39	6422.00	0.002	7.500	0.002
615	0.10	0.00	0.16424	4.0	0.00195	0.59	2.13	39.62	8439.06	3962.00	84.39	7024.22	0.002	7.500	0.002
TOT						1.78			25317.18	11886.00					
AVG					0.0019		2.13	39.62			84.39				
CUM						4.18									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
613	0.200	7.45	0.40	0.08	0.06	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.08	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
614	0.100	7.45	0.40	0.08	0.06	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.08	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
615	0.000	7.45	0.40	0.08	0.06	0.00	0.00	0.00	0.00	3.45	3.45	3.45	0.08	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.33	0.05	0.05	0.00	0.00	0.00	0.00	1.75			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
613	0.200	30.80	0.07	35.56	173.45	4.29	4.35	0.00	4.35	0.00	0.76	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
614	0.100	30.80	0.07	36.16	174.82	4.28	4.36	0.00	4.36	0.00	0.75	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
615	0.000	30.80	0.07	36.78	176.22	4.28	4.32	0.00	4.32	0.00	0.71	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY BAYOU LACOMBE WATERSHED MODEL
Big Branch Bayou Sumr 4,5 DO curr criteria

TRAVEL TIME	=	4.18	DAYS		
MAXIMUM EFFLUENT	=	4.03	PERCENT		
FLOW	=	0.02375	TO	0.16424	m³/s
DISPERSION	=	0.5000	TO	7.5000	m²/s
VELOCITY	=	0.00195	TO	0.11252	m/s
DEPTH	=	0.39	TO	2.13	m
WIDTH	=	3.66	TO	39.62	m
BOD DECAY	=	0.08	TO	0.10	per day

NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.85	TO	3.45	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	0.40	TO	2.88	per day
BOD SETTLING	=	0.06	TO	0.06	per day
NBOD DECAY	=	0.08	TO	0.96	per day
NBOD SETTLING	=	0.06	TO	0.06	per day
TEMPERATURE	=	28.40	TO	30.80	deg C
DISSOLVED OXYGEN	=	4.05	TO	5.02	mg/L

FINAL REPORT Dich#8Hwy434/I-12BBB BAYOU LACOMBE WATERSHED MODEL
REACH NO. 22 Hwy 434/I-12 Ditch BBB Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
436	HDWTR	0.00028	28.40	0.00	10.40	95.61	4.00	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
442	WSTLD	0.00004	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00
464	WSTLD	0.00329	30.60	0.37	57.90	719.70	2.00	11.50	0.00	11.50	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
436	6.50	6.40	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
437	6.40	6.30	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
438	6.30	6.20	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
439	6.20	6.10	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
440	6.10	6.00	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
441	6.00	5.90	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
442	5.90	5.80	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
443	5.80	5.70	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
444	5.70	5.60	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
445	5.60	5.50	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
446	5.50	5.40	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
447	5.40	5.30	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
448	5.30	5.20	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
449	5.20	5.10	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
450	5.10	5.00	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
451	5.00	4.90	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
452	4.90	4.80	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
453	4.80	4.70	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
454	4.70	4.60	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
455	4.60	4.50	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
456	4.50	4.40	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
457	4.40	4.30	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
458	4.30	4.20	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
459	4.20	4.10	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
460	4.10	4.00	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
461	4.00	3.90	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
462	3.90	3.80	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
463	3.80	3.70	0.00032	12.1	0.00637	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
464	3.70	3.60	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
465	3.60	3.50	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
466	3.50	3.40	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
467	3.40	3.30	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
468	3.30	3.20	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
469	3.20	3.10	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
470	3.10	3.00	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
471	3.00	2.90	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
472	2.90	2.80	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
473	2.80	2.70	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
474	2.70	2.60	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
475	2.60	2.50	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
476	2.50	2.40	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
477	2.40	2.30	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
478	2.30	2.20	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
479	2.20	2.10	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
480	2.10	2.00	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
481	2.00	1.90	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
482	1.90	1.80	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
483	1.80	1.70	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
484	1.70	1.60	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
485	1.60	1.50	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
486	1.50	1.40	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
487	1.40	1.30	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072

488	1.30	1.20	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
489	1.20	1.10	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
490	1.10	1.00	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
491	1.00	0.90	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
492	0.90	0.80	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
493	0.80	0.70	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
494	0.70	0.60	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
495	0.60	0.50	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
496	0.50	0.40	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
497	0.40	0.30	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
498	0.30	0.20	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
499	0.20	0.10	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
500	0.10	0.00	0.00360	92.2	0.07209	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.072
TOT						5.83			325.00	6500.00					
AVG					0.0129		0.05	1.00			0.05				
CUM						5.83									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
436	6.400	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
437	6.300	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
438	6.200	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
439	6.100	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
440	6.000	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
441	5.900	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
442	5.800	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
443	5.700	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
444	5.600	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
445	5.500	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
446	5.400	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
447	5.300	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
448	5.200	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
449	5.100	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
450	5.000	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
451	4.900	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
452	4.800	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
453	4.700	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
454	4.600	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
455	4.500	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
456	4.400	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
457	4.300	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
458	4.200	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
459	4.100	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
460	4.000	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
461	3.900	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
462	3.800	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
463	3.700	7.77	17.66	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
464	3.600	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
465	3.500	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
466	3.400	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
467	3.300	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
468	3.200	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
469	3.100	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
470	3.000	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
471	2.900	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
472	2.800	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
473	2.700	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
474	2.600	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
475	2.500	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
476	2.400	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
477	2.300	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
478	2.200	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
479	2.100	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
480	2.000	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
481	1.900	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
482	1.800	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
483	1.700	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
484	1.600	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
485	1.500	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
486	1.400	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
487	1.300	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
488	1.200	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
489	1.100	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
490	1.000	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
491	0.900	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
492	0.800	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
493	0.700	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
494	0.600	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00

495	0.500	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
496	0.400	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
497	0.300	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
498	0.200	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
499	0.100	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
500	0.000	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			20.72	0.08	0.05	0.00	0.00	0.00	0.00	0.12			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
436	6.400	28.40	0.00	10.40	95.61	6.76	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.04	0.00	0.	0.00
437	6.300	28.40	0.00	10.40	95.61	7.36	0.54	0.00	0.54	0.00	0.25	0.00	0.00	0.00	0.00	0.08	0.00	0.	0.00
438	6.200	28.40	0.00	10.40	95.61	7.49	0.54	0.00	0.54	0.00	0.25	0.00	0.00	0.00	0.00	0.12	0.00	0.	0.00
439	6.100	28.40	0.00	10.40	95.61	7.52	0.53	0.00	0.53	0.00	0.24	0.00	0.00	0.00	0.00	0.16	0.00	0.	0.00
440	6.000	28.40	0.00	10.40	95.61	7.52	0.53	0.00	0.53	0.00	0.24	0.00	0.00	0.00	0.00	0.20	0.00	0.	0.00
441	5.900	28.40	0.00	10.40	95.61	7.53	0.53	0.00	0.53	0.00	0.24	0.00	0.00	0.00	0.00	0.24	0.00	0.	0.00
442	5.800	28.40	0.04	16.13	170.88	7.35	3.15	0.00	3.15	0.00	1.23	0.00	0.00	0.00	0.00	0.28	0.00	0.	0.00
443	5.700	28.40	0.04	16.13	170.88	7.47	3.06	0.00	3.06	0.00	1.21	0.00	0.00	0.00	0.00	0.32	0.00	0.	0.00
444	5.600	28.40	0.04	16.13	170.88	7.50	2.98	0.00	2.98	0.00	1.19	0.00	0.00	0.00	0.00	0.36	0.00	0.	0.00
445	5.500	28.40	0.04	16.13	170.88	7.51	2.90	0.00	2.90	0.00	1.17	0.00	0.00	0.00	0.00	0.40	0.00	0.	0.00
446	5.400	28.40	0.04	16.13	170.88	7.51	2.82	0.00	2.82	0.00	1.15	0.00	0.00	0.00	0.00	0.44	0.00	0.	0.00
447	5.300	28.40	0.04	16.13	170.88	7.51	2.75	0.00	2.75	0.00	1.13	0.00	0.00	0.00	0.00	0.48	0.00	0.	0.00
448	5.200	28.40	0.04	16.13	170.88	7.51	2.67	0.00	2.67	0.00	1.11	0.00	0.00	0.00	0.00	0.52	0.00	0.	0.00
449	5.100	28.40	0.04	16.13	170.88	7.51	2.60	0.00	2.60	0.00	1.09	0.00	0.00	0.00	0.00	0.56	0.00	0.	0.00
450	5.000	28.40	0.04	16.13	170.88	7.51	2.54	0.00	2.54	0.00	1.07	0.00	0.00	0.00	0.00	0.60	0.00	0.	0.00
451	4.900	28.40	0.04	16.13	170.88	7.51	2.47	0.00	2.47	0.00	1.06	0.00	0.00	0.00	0.00	0.64	0.00	0.	0.00
452	4.800	28.40	0.04	16.13	170.88	7.51	2.41	0.00	2.41	0.00	1.04	0.00	0.00	0.00	0.00	0.68	0.00	0.	0.00
453	4.700	28.40	0.04	16.13	170.88	7.51	2.34	0.00	2.34	0.00	1.02	0.00	0.00	0.00	0.00	0.72	0.00	0.	0.00
454	4.600	28.40	0.04	16.13	170.88	7.52	2.28	0.00	2.28	0.00	1.00	0.00	0.00	0.00	0.00	0.76	0.00	0.	0.00
455	4.500	28.40	0.04	16.13	170.88	7.52	2.22	0.00	2.22	0.00	0.99	0.00	0.00	0.00	0.00	0.80	0.00	0.	0.00
456	4.400	28.40	0.04	16.13	170.88	7.52	2.17	0.00	2.17	0.00	0.97	0.00	0.00	0.00	0.00	0.84	0.00	0.	0.00
457	4.300	28.40	0.04	16.13	170.88	7.52	2.11	0.00	2.11	0.00	0.96	0.00	0.00	0.00	0.00	0.88	0.00	0.	0.00
458	4.200	28.40	0.04	16.13	170.88	7.52	2.06	0.00	2.06	0.00	0.94	0.00	0.00	0.00	0.00	0.92	0.00	0.	0.00
459	4.100	28.40	0.04	16.13	170.88	7.52	2.01	0.00	2.01	0.00	0.93	0.00	0.00	0.00	0.00	0.96	0.00	0.	0.00
460	4.000	28.40	0.04	16.13	170.88	7.52	1.96	0.00	1.96	0.00	0.91	0.00	0.00	0.00	0.00	1.00	0.00	0.	0.00
461	3.900	28.40	0.04	16.13	170.88	7.52	1.91	0.00	1.91	0.00	0.90	0.00	0.00	0.00	0.00	1.04	0.00	0.	0.00
462	3.800	28.40	0.04	16.13	170.88	7.52	1.86	0.00	1.86	0.00	0.88	0.00	0.00	0.00	0.00	1.08	0.00	0.	0.00
463	3.700	28.40	0.04	16.13	170.88	7.52	1.82	0.00	1.82	0.00	0.87	0.00	0.00	0.00	0.00	1.12	0.00	0.	0.00
464	3.600	28.40	0.34	54.21	671.22	4.11	10.62	0.00	10.62	0.00	7.90	0.00	0.00	0.00	0.00	1.16	0.00	0.	0.00
465	3.500	28.40	0.34	54.21	671.22	5.21	10.59	0.00	10.59	0.00	7.89	0.00	0.00	0.00	0.00	1.20	0.00	0.	0.00
466	3.400	28.40	0.34	54.21	671.22	5.96	10.56	0.00	10.56	0.00	7.88	0.00	0.00	0.00	0.00	1.24	0.00	0.	0.00
467	3.300	28.40	0.34	54.21	671.22	6.47	10.53	0.00	10.53	0.00	7.86	0.00	0.00	0.00	0.00	1.28	0.00	0.	0.00
468	3.200	28.40	0.34	54.21	671.22	6.82	10.50	0.00	10.50	0.00	7.85	0.00	0.00	0.00	0.00	1.32	0.00	0.	0.00
469	3.100	28.40	0.34	54.21	671.22	7.06	10.47	0.00	10.47	0.00	7.84	0.00	0.00	0.00	0.00	1.36	0.00	0.	0.00
470	3.000	28.40	0.34	54.21	671.22	7.22	10.44	0.00	10.44	0.00	7.82	0.00	0.00	0.00	0.00	1.40	0.00	0.	0.00
471	2.900	28.40	0.34	54.21	671.22	7.33	10.41	0.00	10.41	0.00	7.81	0.00	0.00	0.00	0.00	1.44	0.00	0.	0.00
472	2.800	28.40	0.34	54.21	671.22	7.40	10.38	0.00	10.38	0.00	7.79	0.00	0.00	0.00	0.00	1.48	0.00	0.	0.00
473	2.700	28.40	0.34	54.21	671.22	7.45	10.36	0.00	10.36	0.00	7.78	0.00	0.00	0.00	0.00	1.52	0.00	0.	0.00
474	2.600	28.40	0.34	54.21	671.22	7.49	10.33	0.00	10.33	0.00	7.77	0.00	0.00	0.00	0.00	1.56	0.00	0.	0.00
475	2.500	28.40	0.34	54.21	671.22	7.51	10.30	0.00	10.30	0.00	7.75	0.00	0.00	0.00	0.00	1.60	0.00	0.	0.00
476	2.400	28.40	0.34	54.21	671.22	7.53	10.27	0.00	10.27	0.00	7.74	0.00	0.00	0.00	0.00	1.64	0.00	0.	0.00
477	2.300	28.40	0.34	54.21	671.22	7.54	10.24	0.00	10.24	0.00	7.72	0.00	0.00	0.00	0.00	1.68	0.00	0.	0.00
478	2.200	28.40	0.34	54.21	671.22	7.55	10.22	0.00	10.22	0.00	7.71	0.00	0.00	0.00	0.00	1.72	0.00	0.	0.00
479	2.100	28.40	0.34	54.21	671.22	7.55	10.19	0.00	10.19	0.00	7.70	0.00	0.00	0.00	0.00	1.76	0.00	0.	0.00
480	2.000	28.40	0.34	54.21	671.22	7.55	10.16	0.00	10.16	0.00	7.68	0.00	0.00	0.00	0.00	1.80	0.00	0.	0.00
481	1.900	28.40	0.34	54.21	671.22	7.56	10.13	0.00	10.13	0.00	7.67	0.00	0.00	0.00	0.00	1.84	0.00	0.	0.00
482	1.800	28.40	0.34	54.21	671.22	7.56	10.10	0.00	10.10	0.00	7.66	0.00	0.00	0.00	0.00	1.88	0.00	0.	0.00
483	1.700	28.40	0.34	54.21	671.22	7.56	10.08	0.00	10.08	0.00	7.64	0.00	0.00	0.00	0.00	1.92	0.00	0.	0.00
484	1.600	28.40	0.34	54.21	671.22	7.56	10.05	0.00	10.05	0.00	7.63	0.00	0.00	0.00	0.00	1.96	0.00	0.	0.00
485	1.500	28.40	0.34	54.21	671.22	7.56	10.02	0.00	10.02	0.00	7.62	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
486	1.400	28.40	0.34	54.21	671.22	7.56	9.99	0.00	9.99	0.00	7.60	0.00	0.00	0.00	0.00	2.04	0.00	0.	0.00
487	1.300	28.40	0.34	54.21	671.22	7.56	9.97	0.00	9.97	0.00	7.59	0.00	0.00	0.00	0.00	2.08	0.00	0.	0.00
488	1.200	28.40	0.34	54.21	671.22	7.56	9.94	0.00	9.94	0.00	7.58	0.00	0.00	0.00	0.00	2.12	0.00	0.	0.00
489	1.100	28.40	0.34	54.21	671.22	7.56	9.91	0.00	9.91	0.00	7.56	0.00	0.00	0.00	0.00	2.16	0.00	0.	0.00
490	1.000	28.40	0.34	54.21	671.22	7.56	9.88	0.00	9.88	0.00	7.55	0.00	0.00	0.00	0.00	2.20	0.00	0.	0.00
491	0.900	28.40	0.34	54.21	671.22	7.56	9.86	0.00	9.86	0.00	7.54	0.00	0.00	0.00	0.00	2.24	0.00	0.	0.00
492	0.800	28.40	0.34	54.21	671.22	7.56	9.83	0.00	9.83	0.00	7.52	0.00	0.00	0.00	0.00	2.28	0.00	0.	0.00
493	0.700	28.40	0.34	54.21	671.22	7.57	9.80	0.00	9.80	0.00	7.51	0.00	0.00	0.00	0.00	2.32	0.00	0.	0.00
494	0.600	28.40	0.34	54.21	671.22	7.57	9.78	0.00	9.78	0.00	7.50	0.00	0.00	0.00	0.00	2.36	0.00	0.	0.00
495	0.500	28.40	0.34	54.21	671.22	7.57	9.75	0.00	9.75	0.00	7.48	0.00	0.00	0.00	0.00	2.40	0.00	0.	0.00
496	0.400	28.40	0.34	54.21	671.22	7.57	9.72	0.00	9.72	0.00	7.47	0.00	0.00	0.00	0.00	2.44	0.00	0.	0.00
497	0.300	28.40	0.34	54.21	671.22	7.57	9.70	0.00	9.70	0.00	7.46	0.00	0.00	0.00	0.00	2.48	0.00	0.	0.00
498	0.200	28.40	0.34	54.21	671.22	7.57	9.67	0.00	9.67	0.00	7.44	0.00	0.00	0.00	0.00	2.52	0.00	0.	0.00
499	0.100	28.40	0.34	54.21	671.22	7.57	9.64	0.00	9.64	0.00	7.43	0.00	0.00	0.00	0.00	2.56	0.00	0.	0.00
500	0.000	28.40	0.34	54.21	671.22	7.57	9.62	0.00	9.62	0.00	7.42	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

STREAM SUMMARY
Dich#8Hwy434/I-12BBB

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

TRAVEL TIME	=	5.83	DAYS		
MAXIMUM EFFLUENT	=	92.23	PERCENT		
FLOW	=	0.00028	TO	0.00360	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.07209	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.12	TO	0.12	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.21	TO	0.21	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	17.41	TO	29.24	per day
BOD SETTLING	=	0.06	TO	0.06	per day
NBOD DECAY	=	0.05	TO	0.05	per day
NBOD SETTLING	=	0.06	TO	0.06	per day
TEMPERATURE	=	28.40	TO	28.40	deg C
DISSOLVED OXYGEN	=	4.11	TO	7.57	mg/L

FINAL REPORT Ditch #9 Folger
REACH NO. 24 Folger Ditch

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
521	HDWTR	0.00028	28.40	0.00	10.40	95.61	4.00	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
522	WSTLD	0.00022	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
521	0.40	0.30	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
522	0.30	0.20	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
523	0.20	0.10	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
524	0.10	0.00	0.00050	43.9	0.00998	0.12	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.010
TOT						0.55			20.00	400.00					
AVG					0.0083		0.05	1.00			0.05				
CUM						0.55									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
521	0.300	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
522	0.200	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
523	0.100	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
524	0.000	7.77	18.87	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			15.82	0.08	0.05	0.00	0.00	0.00	0.00	0.12			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
521	0.300	28.40	0.00	10.40	95.61	6.76	0.54	0.00	0.54	0.00	0.25	0.00	0.00	0.00	0.00	0.65	0.00	0.	0.00
522	0.200	28.40	0.16	31.25	369.58	6.59	10.19	0.00	10.19	0.00	3.87	0.00	0.00	0.00	0.00	1.30	0.00	0.	0.00
523	0.100	28.40	0.16	31.25	369.58	7.20	9.99	0.00	9.99	0.00	3.83	0.00	0.00	0.00	0.00	1.95	0.00	0.	0.00
524	0.000	28.40	0.16	31.25	369.58	7.39	9.80	0.00	9.80	0.00	3.79	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

STREAM SUMMARY
Ditch #9 Folger

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

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TRAVEL TIME       =           0.55 DAYS

MAXIMUM EFFLUENT  =          43.90 PERCENT

FLOW              =   0.00028 TO    0.00050   m³/s
DISPERSION        =   0.0000  TO    0.0000    m²/s
VELOCITY          =   0.00560 TO    0.00998   m/s
DEPTH             =   0.05    TO    0.05      m
WIDTH             =   1.00    TO    1.00      m

BOD DECAY         =    0.12   TO    0.12      per day
NH3 DECAY         =    0.00   TO    0.00      per day
SOD               =    0.21   TO    0.21      g/m²/d
NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
REAERATION        =   17.41   TO   18.87      per day
BOD SETTLING      =    0.06   TO    0.06      per day
NBOD DECAY        =    0.05   TO    0.05      per day
NBOD SETTLING     =    0.06   TO    0.06      per day

TEMPERATURE       =   28.40   TO   28.40      deg C
DISSOLVED OXYGEN  =    6.59   TO    7.39      mg/L
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FINAL REPORT    Ditch A BerryTodd Rd                          BAYOU LACOMBE WATERSHED MODEL
REACH NO. 27    Berry Todd Rd Ditch                           Sumr 4,5 DO curr criteria
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********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
564	HDWTR	0.00028	28.40	0.00	10.40	95.61	4.00	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
565	WSTLD	0.00307	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
564	2.00	1.90	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
565	1.90	1.80	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
566	1.80	1.70	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
567	1.70	1.60	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
568	1.60	1.50	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
569	1.50	1.40	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
570	1.40	1.30	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
571	1.30	1.20	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
572	1.20	1.10	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
573	1.10	1.00	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
574	1.00	0.90	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
575	0.90	0.80	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
576	0.80	0.70	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
577	0.70	0.60	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
578	0.60	0.50	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
579	0.50	0.40	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
580	0.40	0.30	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
581	0.30	0.20	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
582	0.20	0.10	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
583	0.10	0.00	0.00335	91.6	0.06694	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.067
TOT						0.54			100.00	2000.00					
AVG					0.0433		0.05	1.00			0.05				
CUM						0.54									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
564	1.900	7.77	17.41	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
565	1.800	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
566	1.700	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
567	1.600	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
568	1.500	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
569	1.400	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
570	1.300	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
571	1.200	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
572	1.100	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00

573	1.000	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
574	0.900	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
575	0.800	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
576	0.700	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
577	0.600	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
578	0.500	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
579	0.400	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
580	0.300	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
581	0.200	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
582	0.100	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
583	0.000	7.76	29.24	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			24.49	0.08	0.05	0.00	0.00	0.00	0.00	0.12			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
564	1.900	28.40	0.00	10.40	95.61	6.76	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.50	0.00	0.	0.00
565	1.800	28.40	0.34	53.93	667.49	4.12	21.06	0.00	21.06	0.00	7.89	0.00	0.00	0.00	0.00	1.00	0.00	0.	0.00
566	1.700	28.40	0.34	53.93	667.49	5.26	20.99	0.00	20.99	0.00	7.87	0.00	0.00	0.00	0.00	1.50	0.00	0.	0.00
567	1.600	28.40	0.34	53.93	667.49	6.02	20.93	0.00	20.93	0.00	7.86	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
568	1.500	28.40	0.34	53.93	667.49	6.52	20.87	0.00	20.87	0.00	7.84	0.00	0.00	0.00	0.00	2.50	0.00	0.	0.00
569	1.400	28.40	0.34	53.93	667.49	6.86	20.81	0.00	20.81	0.00	7.83	0.00	0.00	0.00	0.00	3.00	0.00	0.	0.00
570	1.300	28.40	0.34	53.93	667.49	7.08	20.74	0.00	20.74	0.00	7.81	0.00	0.00	0.00	0.00	3.50	0.00	0.	0.00
571	1.200	28.40	0.34	53.93	667.49	7.23	20.68	0.00	20.68	0.00	7.80	0.00	0.00	0.00	0.00	4.00	0.00	0.	0.00
572	1.100	28.40	0.34	53.93	667.49	7.33	20.62	0.00	20.62	0.00	7.78	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.00
573	1.000	28.40	0.34	53.93	667.49	7.40	20.56	0.00	20.56	0.00	7.77	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00
574	0.900	28.40	0.34	53.93	667.49	7.44	20.49	0.00	20.49	0.00	7.75	0.00	0.00	0.00	0.00	5.50	0.00	0.	0.00
575	0.800	28.40	0.34	53.93	667.49	7.47	20.43	0.00	20.43	0.00	7.74	0.00	0.00	0.00	0.00	6.00	0.00	0.	0.00
576	0.700	28.40	0.34	53.93	667.49	7.49	20.37	0.00	20.37	0.00	7.72	0.00	0.00	0.00	0.00	6.50	0.00	0.	0.00
577	0.600	28.40	0.34	53.93	667.49	7.51	20.31	0.00	20.31	0.00	7.71	0.00	0.00	0.00	0.00	7.00	0.00	0.	0.00
578	0.500	28.40	0.34	53.93	667.49	7.52	20.25	0.00	20.25	0.00	7.69	0.00	0.00	0.00	0.00	7.50	0.00	0.	0.00
579	0.400	28.40	0.34	53.93	667.49	7.52	20.19	0.00	20.19	0.00	7.68	0.00	0.00	0.00	0.00	8.00	0.00	0.	0.00
580	0.300	28.40	0.34	53.93	667.49	7.53	20.13	0.00	20.13	0.00	7.67	0.00	0.00	0.00	0.00	8.50	0.00	0.	0.00
581	0.200	28.40	0.34	53.93	667.49	7.53	20.07	0.00	20.07	0.00	7.65	0.00	0.00	0.00	0.00	9.00	0.00	0.	0.00
582	0.100	28.40	0.34	53.93	667.49	7.54	20.00	0.00	20.00	0.00	7.64	0.00	0.00	0.00	0.00	9.50	0.00	0.	0.00
583	0.000	28.40	0.34	53.93	667.49	7.54	19.94	0.00	19.94	0.00	7.62	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY
Ditch A BerryTodd Rd

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

TRAVEL TIME = 0.54 DAYS

MAXIMUM EFFLUENT = 91.63 PERCENT

FLOW	=	0.00028	TO	0.00335	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.06694	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.12	TO	0.12	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.21	TO	0.21	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	17.41	TO	29.24	per day
BOD SETTLING	=	0.06	TO	0.06	per day
NBOD DECAY	=	0.05	TO	0.05	per day
NBOD SETTLING	=	0.06	TO	0.06	per day
TEMPERATURE	=	28.40	TO	28.40	deg C
DISSOLVED OXYGEN	=	4.12	TO	7.54	mg/L

FINAL REPORT Ditch B Hwy 190 BBB
REACH NO. 29 Hwy 190 Ditch BBB

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
595	HDWTR	0.00028	28.40	0.00	10.40	95.61	4.00	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
596	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00
602	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
595	1.30	1.20	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
596	1.20	1.10	0.00029	2.3	0.00573	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
597	1.10	1.00	0.00029	2.3	0.00573	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
598	1.00	0.90	0.00029	2.3	0.00573	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
599	0.90	0.80	0.00029	2.3	0.00573	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
600	0.80	0.70	0.00029	2.3	0.00573	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
601	0.70	0.60	0.00029	2.3	0.00573	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
602	0.60	0.50	0.00029	2.7	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
603	0.50	0.40	0.00029	2.7	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
604	0.40	0.30	0.00029	2.7	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
605	0.30	0.20	0.00029	2.7	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
606	0.20	0.10	0.00029	2.7	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
607	0.10	0.00	0.00029	2.7	0.00575	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
TOT						2.63			65.00	1300.00					
AVG					0.0057		0.05	1.00			0.05				
CUM						2.63									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
595	1.200	7.75	17.46	0.12	0.06	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.05	0.06	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
596	1.100	7.72	17.56	0.12	0.06	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.05	0.06	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
597	1.000	7.70	17.62	0.12	0.06	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.05	0.06	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
598	0.900	7.67	17.68	0.12	0.06	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.05	0.06	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
599	0.800	7.65	17.74	0.12	0.06	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.06	0.06	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
600	0.700	7.62	17.79	0.12	0.06	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.06	0.06	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
601	0.600	7.60	17.85	0.12	0.06	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.06	0.06	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
602	0.500	7.57	17.91	0.13	0.06	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.06	0.06	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
603	0.400	7.55	17.97	0.13	0.06	0.00	0.00	0.00	0.00	0.24	0.24	0.24	0.06	0.06	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
604	0.300	7.53	18.03	0.13	0.06	0.00	0.00	0.00	0.00	0.24	0.24	0.24	0.06	0.06	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
605	0.200	7.50	18.09	0.13	0.06	0.00	0.00	0.00	0.00	0.24	0.24	0.24	0.06	0.06	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
606	0.100	7.48	18.14	0.13	0.06	0.00	0.00	0.00	0.00	0.24	0.24	0.24	0.06	0.06	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
607	0.000	7.45	18.20	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			14.92	0.08	0.05	0.00	0.00	0.00	0.00	0.12			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
595	1.200	28.58	0.00	10.40	95.61	6.74	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.77	0.00	0.	0.00
596	1.100	28.77	0.01	11.49	109.98	7.29	1.04	0.00	1.04	0.00	0.44	0.00	0.00	0.00	0.00	1.54	0.00	0.	0.00
597	1.000	28.95	0.01	11.49	109.98	7.41	1.02	0.00	1.02	0.00	0.43	0.00	0.00	0.00	0.00	2.31	0.00	0.	0.00
598	0.900	29.14	0.01	11.49	109.98	7.42	1.00	0.00	1.00	0.00	0.43	0.00	0.00	0.00	0.00	3.08	0.00	0.	0.00
599	0.800	29.32	0.01	11.49	109.98	7.41	0.98	0.00	0.98	0.00	0.43	0.00	0.00	0.00	0.00	3.85	0.00	0.	0.00
600	0.700	29.51	0.01	11.49	109.98	7.39	0.96	0.00	0.96	0.00	0.42	0.00	0.00	0.00	0.00	4.62	0.00	0.	0.00
601	0.600	29.69	0.01	11.49	109.98	7.36	0.94	0.00	0.94	0.00	0.42	0.00	0.00	0.00	0.00	5.38	0.00	0.	0.00
602	0.500	29.88	0.01	11.67	112.31	7.33	1.00	0.00	1.00	0.00	0.45	0.00	0.00	0.00	0.00	6.15	0.00	0.	0.00
603	0.400	30.06	0.01	11.67	112.31	7.32	0.98	0.00	0.98	0.00	0.44	0.00	0.00	0.00	0.00	6.92	0.00	0.	0.00
604	0.300	30.25	0.01	11.67	112.31	7.29	0.95	0.00	0.95	0.00	0.44	0.00	0.00	0.00	0.00	7.69	0.00	0.	0.00
605	0.200	30.43	0.01	11.67	112.31	7.27	0.93	0.00	0.93	0.00	0.43	0.00	0.00	0.00	0.00	8.46	0.00	0.	0.00
606	0.100	30.62	0.01	11.67	112.31	7.25	0.91	0.00	0.91	0.00	0.43	0.00	0.00	0.00	0.00	9.23	0.00	0.	0.00
607	0.000	30.80	0.01	11.67	112.31	7.23	0.89	0.00	0.89	0.00	0.42	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY
Ditch B Hwy 190 BBB

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

TRAVEL TIME = 2.63 DAYS

MAXIMUM EFFLUENT = 2.68 PERCENT

FLOW	=	0.00028	TO	0.00029	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.00575	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.12	TO	0.13	per day

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NH3 DECAY         =    0.00   TO    0.00      per day
SOD               =    0.21   TO    0.25      g/m²/d
NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
REAERATION        =   17.46   TO   18.20      per day
BOD SETTLING      =    0.06   TO    0.06      per day
NBOD DECAY        =    0.05   TO    0.06      per day
NBOD SETTLING     =    0.06   TO    0.06      per day

TEMPERATURE       =   28.58   TO   30.80      deg C
DISSOLVED OXYGEN  =    6.74   TO    7.42      mg/L


FINAL REPORT    Cypress Bayou                                   BAYOU LACOMBE WATERSHED MODEL
REACH NO. 34    CB03 to Hwy 190 ditch CB                        Sumr 4,5 DO curr criteria


 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

  650  HDWTR     0.02300   30.80     0.14    22.50   286.90   4.00   4.10   0.00   4.10   0.00   0.64   0.00   0.00   0.00  10.00     0.00    0.00
 EACH  INCR      0.06294   23.25     0.14    22.50   286.90   4.00   4.10   0.00                  0.64   0.00   0.00   0.00    0.00     0.00
  651  WSTLD     0.00219   23.06     0.26    23.50   516.30   2.00  11.50   0.00  11.50   0.00   8.60   0.00   0.00   0.00   0.00     0.00    0.00
  652  WSTLD     0.00657   30.60     0.37    57.90   719.70   5.00  11.50   0.00  11.50   0.00   8.60   0.00   0.00   0.00   0.00     0.00    0.00


 ************************************************** HYDRAULIC PARAMETER VALUES **************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
  NO.    DIST    DIST               EFF     VELO      TIME                                  AREA    AREA     PRISM    VELO              VELO
          km      km        m³/s             m/s      days       m       m        m³         m²      m²        m³     m/s      m²/s     m/s

  650    4.90    4.80    0.08594   0.0   0.06319      0.02    0.29    4.69    136.01     469.00    1.36     35.64   0.001     1.000   0.063
  651    4.80    4.70    0.15107   1.5   0.11107      0.01    0.29    4.69    136.01     469.00    1.36     71.29   0.001     1.000   0.111
  652    4.70    4.60    0.22059   4.0   0.16218      0.01    0.29    4.69    136.01     469.00    1.36    106.93   0.002     1.000   0.162

  TOT                                               0.04                    408.03    1407.00
  AVG                                       0.0968            0.29    4.69                          1.36
  CUM                                               0.04


 ********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************

 ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN    NH3   NH3  DENIT   PO4   ALG   MAC   COLI    NCM    NCM
 NO.     DIST  D.O.    RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
               mg/L    1/da   1/da  1/da   1/da   1/da  1/da   1/da     *     *     *    1/da  1/da   1/da     *    1/da     *    **    **   1/da   1/da   1/da

 650    4.800  7.45    3.34   0.11  0.06   0.00   0.00  0.00   0.00  2.96  2.96  2.96   0.24  0.06   0.00  0.00   0.00  0.00  0.82  0.00   0.00   0.00   0.00
 651    4.700  7.45    3.89   0.11  0.06   0.00   0.00  0.00   0.00  2.96  2.96  2.96   0.24  0.06   0.00  0.00   0.00  0.00  0.82  0.00   0.00   0.00   0.00
 652    4.600  7.45    4.32   0.11  0.06   0.00   0.00  0.00   0.00  2.96  2.96  2.96   0.25  0.06   0.00  0.00   0.00  0.00  0.82  0.00   0.00   0.00   0.00

 AVG 20 DEG C RATE     3.16   0.07  0.05   0.00   0.00  0.00   0.00  1.50               0.14  0.05   0.00  0.00   0.00  0.00                0.00   0.00   0.00

 *   g/m²/d            **   mg/L/day


 ********************************************** WATER QUALITY CONSTITUENT VALUES **********************************************

 ELEM  ENDING   TEMP  SALN chloride  conduct    DO   BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   TOTN   PHOS  CHL A   MACRO     COLI     NCM
 NO.     DIST  DEG C   PPT     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L    g/m³  #/100mL

 650    4.800  30.80  0.14     22.51   287.49   4.03   4.10   0.00   4.10   0.00   0.65   0.00   0.00   0.00   0.00  10.00    0.00       0.    0.00
 651    4.700  30.80  0.14     22.60   291.21   4.02   4.21   0.00   4.21   0.00   0.77   0.00   0.00   0.00   0.00  10.00    0.00       0.    0.00
 652    4.600  30.80  0.15     23.57   302.10   4.08   4.38   0.00   4.38   0.00   0.95   0.00   0.00   0.00   0.00  10.00    0.00       0.    0.00


FINAL REPORT    Cypress Bayou                                   BAYOU LACOMBE WATERSHED MODEL
REACH NO. 36    Hwy 190 Ditch CB to CB02                        Sumr 4,5 DO curr criteria


 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

  669  UPR RCH   0.22059   30.80     0.15    23.57   302.10   4.08   4.38   0.00   4.38   0.00   0.95   0.00   0.00   0.00  10.00     0.00    0.00
  669  TRIB      0.00039   30.80     0.21    32.68   411.34   7.19   4.78   0.00   4.78   0.00   2.08   0.00   0.00   0.00  10.00     0.00    0.00
  674  WSTLD     0.00000   30.60     0.37    57.90   719.70   2.00  23.00   0.00  23.00   0.00   8.60   0.00   0.00   0.00   0.00     0.00    0.00
  677  WSTLD     0.00027   30.60     0.37    57.90   719.70   2.00  23.00   0.00  23.00   0.00   8.60   0.00   0.00   0.00   0.00     0.00    0.00


 ************************************************** HYDRAULIC PARAMETER VALUES **************************************************
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ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
669	4.60	4.50	0.22098	4.0	0.16247	0.01	0.29	4.69	136.01	469.00	1.36	160.40	0.003	3.500	0.162
670	4.50	4.40	0.22098	4.0	0.16247	0.01	0.29	4.69	136.01	469.00	1.36	213.86	0.003	3.500	0.162
671	4.40	4.30	0.22098	4.0	0.16247	0.01	0.29	4.69	136.01	469.00	1.36	267.33	0.004	3.500	0.162
672	4.30	4.20	0.22098	4.0	0.16247	0.01	0.29	4.69	136.01	469.00	1.36	320.80	0.005	3.500	0.162
673	4.20	4.10	0.22098	4.0	0.16247	0.01	0.29	4.69	136.01	469.00	1.36	374.26	0.006	3.500	0.162
674	4.10	4.00	0.22098	4.0	0.16248	0.01	0.29	4.69	136.01	469.00	1.36	427.73	0.007	3.500	0.162
675	4.00	3.90	0.22098	4.0	0.16248	0.01	0.29	4.69	136.01	469.00	1.36	481.19	0.008	3.500	0.162
676	3.90	3.80	0.22098	4.0	0.16248	0.01	0.29	4.69	136.01	469.00	1.36	534.66	0.009	3.500	0.162
677	3.80	3.70	0.22126	4.1	0.16268	0.01	0.29	4.69	136.01	469.00	1.36	588.13	0.010	3.500	0.163
678	3.70	3.60	0.22126	4.1	0.16268	0.01	0.29	4.69	136.01	469.00	1.36	641.59	0.010	3.500	0.163
679	3.60	3.50	0.22126	4.1	0.16268	0.01	0.29	4.69	136.01	469.00	1.36	695.06	0.011	3.500	0.163
680	3.50	3.40	0.22126	4.1	0.16268	0.01	0.29	4.69	136.01	469.00	1.36	748.52	0.012	3.500	0.163
681	3.40	3.30	0.22126	4.1	0.16268	0.01	0.29	4.69	136.01	469.00	1.36	801.99	0.013	3.500	0.163
682	3.30	3.20	0.22126	4.1	0.16268	0.01	0.29	4.69	136.01	469.00	1.36	855.46	0.014	3.500	0.163
683	3.20	3.10	0.22126	4.1	0.16268	0.01	0.29	4.69	136.01	469.00	1.36	908.92	0.015	3.500	0.163
684	3.10	3.00	0.22126	4.1	0.16268	0.01	0.29	4.69	136.01	469.00	1.36	962.39	0.016	3.500	0.163
685	3.00	2.90	0.22126	4.1	0.16268	0.01	0.29	4.69	136.01	469.00	1.36	1015.85	0.017	3.500	0.163
TOT						0.12			2312.17	7973.00					
AVG					0.1626		0.29	4.69			1.36				
CUM						0.16									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
669	4.500	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
670	4.400	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
671	4.300	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
672	4.200	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
673	4.100	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
674	4.000	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
675	3.900	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
676	3.800	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
677	3.700	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
678	3.600	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
679	3.500	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
680	3.400	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
681	3.300	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
682	3.200	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
683	3.100	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
684	3.000	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
685	2.900	7.45	4.32	0.11	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.25	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			3.54	0.07	0.05	0.00	0.00	0.00	0.00	1.50			0.14	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
669	4.500	30.80	0.15	23.58	302.27	4.12	4.43	0.00	4.43	0.00	0.95	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
670	4.400	30.80	0.15	23.58	302.27	4.15	4.48	0.00	4.48	0.00	0.95	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
671	4.300	30.80	0.15	23.58	302.27	4.17	4.52	0.00	4.52	0.00	0.95	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
672	4.200	30.80	0.15	23.58	302.27	4.20	4.57	0.00	4.57	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
673	4.100	30.80	0.15	23.58	302.27	4.23	4.61	0.00	4.61	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
674	4.000	30.80	0.15	23.58	302.28	4.25	4.65	0.00	4.65	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
675	3.900	30.80	0.15	23.58	302.29	4.28	4.70	0.00	4.70	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
676	3.800	30.80	0.15	23.59	302.37	4.30	4.75	0.00	4.75	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
677	3.700	30.80	0.15	23.62	302.79	4.32	4.81	0.00	4.81	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
678	3.600	30.80	0.15	23.62	302.79	4.35	4.85	0.00	4.85	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
679	3.500	30.80	0.15	23.62	302.79	4.37	4.90	0.00	4.90	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
680	3.400	30.80	0.15	23.62	302.79	4.39	4.94	0.00	4.94	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
681	3.300	30.80	0.15	23.62	302.79	4.41	4.98	0.00	4.98	0.00	0.93	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
682	3.200	30.80	0.15	23.63	302.80	4.43	5.03	0.00	5.03	0.00	0.93	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
683	3.100	30.80	0.15	23.64	302.83	4.45	5.07	0.00	5.07	0.00	0.93	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
684	3.000	30.80	0.15	23.73	303.01	4.47	5.11	0.00	5.11	0.00	0.92	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
685	2.900	30.80	0.15	24.25	304.01	4.48	5.13	0.00	5.13	0.00	0.87	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
686	UPR RCH	0.22126	30.80	0.15	24.25	304.01	4.48	5.13	0.00	5.13	0.00	0.87	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
686	2.90	2.80	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	1228.96	0.001	5.500	0.011
687	2.80	2.70	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	1442.06	0.002	5.500	0.011
688	2.70	2.60	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	1655.17	0.002	5.500	0.011
689	2.60	2.50	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	1868.27	0.002	5.500	0.011
690	2.50	2.40	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	2081.37	0.002	5.500	0.011
691	2.40	2.30	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	2294.48	0.003	5.500	0.011
692	2.30	2.20	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	2507.58	0.003	5.500	0.011
693	2.20	2.10	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	2720.69	0.003	5.500	0.011
694	2.10	2.00	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	2933.79	0.003	5.500	0.011
695	2.00	1.90	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	3146.89	0.004	5.500	0.011
696	1.90	1.80	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	3360.00	0.004	5.500	0.011
697	1.80	1.70	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	3573.10	0.004	5.500	0.011
698	1.70	1.60	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	3786.21	0.004	5.500	0.011
699	1.60	1.50	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	3999.31	0.005	5.500	0.011
700	1.50	1.40	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	4212.41	0.005	5.500	0.011
701	1.40	1.30	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	4425.52	0.005	5.500	0.011
702	1.30	1.20	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	4638.62	0.005	5.500	0.011
703	1.20	1.10	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	4851.73	0.006	5.500	0.011
704	1.10	1.00	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	5064.83	0.006	5.500	0.011
705	1.00	0.90	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	5277.93	0.006	5.500	0.011
706	0.90	0.80	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	5491.04	0.006	5.500	0.011
707	0.80	0.70	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	5704.14	0.007	5.500	0.011
708	0.70	0.60	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	5917.25	0.007	5.500	0.011
709	0.60	0.50	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	6130.35	0.007	5.500	0.011
710	0.50	0.40	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	6343.45	0.007	5.500	0.011
711	0.40	0.30	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	6556.56	0.007	5.500	0.011
712	0.30	0.20	0.22126	4.1	0.01135	0.10	1.39	14.02	1948.78	1402.00	19.49	6769.66	0.008	5.500	0.011
TOT						2.75			52617.07	37854.00					
AVG					0.0114		1.39	14.02			19.49				
CUM						2.91									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
686	2.800	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
687	2.700	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
688	2.600	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
689	2.500	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
690	2.400	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
691	2.300	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
692	2.200	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
693	2.100	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
694	2.000	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
695	1.900	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
696	1.800	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
697	1.700	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
698	1.600	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
699	1.500	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
700	1.400	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
701	1.300	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
702	1.200	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
703	1.100	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
704	1.000	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
705	0.900	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
706	0.800	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
707	0.700	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
708	0.600	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
709	0.500	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
710	0.400	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
711	0.300	7.45	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
712	0.200	7.44	0.61	0.09	0.06	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.10	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.50	0.05	0.05	0.00	0.00	0.00	0.00	1.50			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
686	2.800	30.80	0.15	24.50	304.49	4.48	5.12	0.00	5.12	0.00	0.85	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
687	2.700	30.80	0.15	24.68	304.85	4.48	5.11	0.00	5.11	0.00	0.84	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
688	2.600	30.80	0.15	24.90	305.27	4.48	5.11	0.00	5.11	0.00	0.82	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
689	2.500	30.80	0.15	25.16	305.78	4.49	5.10	0.00	5.10	0.00	0.81	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
690	2.400	30.80	0.15	25.48	306.40	4.49	5.10	0.00	5.10	0.00	0.80	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
691	2.300	30.80	0.15	25.86	307.14	4.49	5.09	0.00	5.09	0.00	0.79	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
692	2.200	30.80	0.15	26.32	308.04	4.49	5.09	0.00	5.09	0.00	0.78	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
693	2.100	30.80	0.15	26.88	309.12	4.49	5.08	0.00	5.08	0.00	0.77	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
694	2.000	30.80	0.15	27.55	310.43	4.49	5.08	0.00	5.08	0.00	0.75	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
695	1.900	30.80	0.15	28.36	312.01	4.49	5.07	0.00	5.07	0.00	0.74	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
696	1.800	30.80	0.15	29.33	313.91	4.50	5.07	0.00	5.07	0.00	0.73	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
697	1.700	30.80	0.16	30.51	316.21	4.50	5.06	0.00	5.06	0.00	0.72	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
698	1.600	30.80	0.16	31.93	318.97	4.51	5.06	0.00	5.06	0.00	0.71	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
699	1.500	30.80	0.16	33.65	322.31	4.51	5.05	0.00	5.05	0.00	0.70	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
700	1.400	30.80	0.16	35.72	326.34	4.52	5.05	0.00	5.05	0.00	0.70	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
701	1.300	30.80	0.16	38.21	331.21	4.53	5.04	0.00	5.04	0.00	0.69	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
702	1.200	30.80	0.17	41.23	337.07	4.54	5.04	0.00	5.04	0.00	0.68	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
703	1.100	30.80	0.17	44.86	344.15	4.55	5.03	0.00	5.03	0.00	0.67	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
704	1.000	30.80	0.18	49.24	352.68	4.56	5.03	0.00	5.03	0.00	0.67	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
705	0.900	30.80	0.18	54.53	362.98	4.58	5.02	0.00	5.02	0.00	0.66	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
706	0.800	30.80	0.19	60.91	375.41	4.61	5.02	0.00	5.02	0.00	0.66	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
707	0.700	30.80	0.20	68.61	390.40	4.64	5.01	0.00	5.01	0.00	0.66	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
708	0.600	30.80	0.21	77.90	408.48	4.68	5.00	0.00	5.00	0.00	0.66	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
709	0.500	30.80	0.22	89.10	430.30	4.73	4.99	0.00	4.99	0.00	0.66	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
710	0.400	30.80	0.23	102.62	456.62	4.79	4.99	0.00	4.99	0.00	0.67	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
711	0.300	30.80	0.25	118.92	488.38	4.87	4.98	0.00	4.98	0.00	0.68	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
712	0.200	30.80	0.27	138.60	526.69	4.98	4.97	0.00	4.97	0.00	0.70	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT Cypress Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 38 CB01to confluence w/BayouLacombe Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
713	UPR RCH	0.22126	30.80	0.27	138.60	526.69	4.98	4.97	0.00	4.97	0.00	0.70	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
713	0.20	0.10	0.22126	4.1	0.00229	0.50	2.73	35.36	9653.28	3536.00	96.53	7307.13	0.002	7.500	0.002
714	0.10	0.00	0.22126	4.1	0.00229	0.50	2.73	35.36	9653.28	3536.00	96.53	7844.61	0.002	7.500	0.002
TOT						1.01			19306.56	7072.00					
AVG					0.0023		2.73	35.36			96.53				
CUM						3.92									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
713	0.100	7.44	0.31	0.09	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
714	0.000	7.44	0.31	0.09	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.26	0.05	0.05	0.00	0.00	0.00	0.00	0.00			0.08	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
713	0.100	30.80	0.28	144.72	538.61	5.01	4.96	0.00	4.96	0.00	0.70	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
714	0.000	30.80	0.28	148.42	545.81	5.01	4.96	0.00	4.96	0.00	0.71	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY
Cypress Bayou

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

TRAVEL TIME	=	3.92 DAYS				
MAXIMUM EFFLUENT	=	4.14 PERCENT				
FLOW	=	0.08594	TO	0.22126	m^3/s	
DISPERSION	=	1.0000	TO	7.5000	m^2/s	
VELOCITY	=	0.00229	TO	0.16268	m/s	
DEPTH	=	0.29	TO	2.73	m	
WIDTH	=	4.69	TO	35.36	m	
BOD DECAY	=	0.09	TO	0.11	per day	
NH3 DECAY	=	0.00	TO	0.00	per day	
SOD	=	0.00	TO	2.96	$g/m^2/d$	
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$	
REAERATION	=	0.31	TO	4.32	per day	
BOD SETTLING	=	0.06	TO	0.06	per day	
NBOD DECAY	=	0.10	TO	0.25	per day	
NBOD SETTLING	=	0.06	TO	0.06	per day	
TEMPERATURE	=	30.80	TO	30.80	deg C	
DISSOLVED OXYGEN	=	4.02	TO	5.01	mg/L	

FINAL REPORT Ditch C Hwy 190 CB
REACH NO. 35 Hwy 190 Ditch CB

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
653	HDWTR	0.00028	30.80	0.14	22.50	286.90	4.00	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
654	WSTLD	0.00009	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00
655	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00
660	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00
661	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00
663	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
653	1.60	1.50	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
654	1.50	1.40	0.00037	25.0	0.00746	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
655	1.40	1.30	0.00038	27.1	0.00768	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
656	1.30	1.20	0.00038	27.1	0.00768	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
657	1.20	1.10	0.00038	27.1	0.00768	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
658	1.10	1.00	0.00038	27.1	0.00768	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
659	1.00	0.90	0.00038	27.1	0.00768	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
660	0.90	0.80	0.00039	27.3	0.00770	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
661	0.80	0.70	0.00039	27.7	0.00775	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
662	0.70	0.60	0.00039	27.7	0.00775	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
663	0.60	0.50	0.00039	28.8	0.00786	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
664	0.50	0.40	0.00039	28.8	0.00786	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
665	0.40	0.30	0.00039	28.8	0.00786	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
666	0.30	0.20	0.00039	28.8	0.00786	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
667	0.20	0.10	0.00039	28.8	0.00786	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
668	0.10	0.00	0.00039	28.8	0.00786	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
TOT						2.45			80.00	1600.00					
AVG					0.0076		0.05	1.00			0.05				
CUM						2.45									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
653	1.500	7.45	18.15	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
654	1.400	7.45	18.79	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
655	1.300	7.45	18.87	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
656	1.200	7.45	18.87	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
657	1.100	7.45	18.87	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
658	1.000	7.45	18.87	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00

659	0.900	7.45	18.87	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
660	0.800	7.45	18.88	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
661	0.700	7.45	18.89	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
662	0.600	7.45	18.89	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
663	0.500	7.45	18.93	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
664	0.400	7.45	18.93	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
665	0.300	7.45	18.93	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
666	0.200	7.45	18.93	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
667	0.100	7.45	18.93	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
668	0.000	7.45	18.93	0.13	0.06	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.06	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			15.46	0.08	0.05	0.00	0.00	0.00	0.00	0.12			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
653	1.500	30.80	0.14	22.50	286.90	6.51	0.54	0.00	0.54	0.00	0.25	0.00	0.00	0.00	0.00	0.62	0.00	0.	0.00
654	1.400	30.80	0.20	31.33	394.90	6.69	5.98	0.00	5.98	0.00	2.29	0.00	0.00	0.00	0.00	1.25	0.00	0.	0.00
655	1.300	30.80	0.20	32.09	404.20	6.99	6.29	0.00	6.29	0.00	2.43	0.00	0.00	0.00	0.00	1.88	0.00	0.	0.00
656	1.200	30.80	0.20	32.09	404.20	7.11	6.12	0.00	6.12	0.00	2.39	0.00	0.00	0.00	0.00	2.50	0.00	0.	0.00
657	1.100	30.80	0.20	32.09	404.20	7.14	5.96	0.00	5.96	0.00	2.35	0.00	0.00	0.00	0.00	3.12	0.00	0.	0.00
658	1.000	30.80	0.20	32.09	404.20	7.15	5.80	0.00	5.80	0.00	2.31	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.00
659	0.900	30.80	0.20	32.09	404.20	7.16	5.64	0.00	5.64	0.00	2.27	0.00	0.00	0.00	0.00	4.38	0.00	0.	0.00
660	0.800	30.80	0.20	32.17	405.10	7.16	5.54	0.00	5.54	0.00	2.25	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00
661	0.700	30.80	0.20	32.32	406.97	7.15	5.49	0.00	5.49	0.00	2.25	0.00	0.00	0.00	0.00	5.62	0.00	0.	0.00
662	0.600	30.80	0.20	32.32	406.97	7.16	5.35	0.00	5.35	0.00	2.21	0.00	0.00	0.00	0.00	6.25	0.00	0.	0.00
663	0.500	30.80	0.21	32.68	411.34	7.15	5.45	0.00	5.45	0.00	2.26	0.00	0.00	0.00	0.00	6.88	0.00	0.	0.00
664	0.400	30.80	0.21	32.68	411.34	7.17	5.31	0.00	5.31	0.00	2.22	0.00	0.00	0.00	0.00	7.50	0.00	0.	0.00
665	0.300	30.80	0.21	32.68	411.34	7.18	5.17	0.00	5.17	0.00	2.19	0.00	0.00	0.00	0.00	8.12	0.00	0.	0.00
666	0.200	30.80	0.21	32.68	411.34	7.18	5.03	0.00	5.03	0.00	2.15	0.00	0.00	0.00	0.00	8.75	0.00	0.	0.00
667	0.100	30.80	0.21	32.68	411.34	7.18	4.90	0.00	4.90	0.00	2.12	0.00	0.00	0.00	0.00	9.38	0.00	0.	0.00
668	0.000	30.80	0.21	32.68	411.34	7.19	4.78	0.00	4.78	0.00	2.08	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY
Ditch C Hwy 190 CB

BAYOU LACOMBE WATERSHED MODEL
Sumr 4,5 DO curr criteria

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TRAVEL TIME       =          2.45 DAYS

MAXIMUM EFFLUENT  =         28.75 PERCENT

FLOW              =   0.00028 TO    0.00039   m³/s
DISPERSION        =   0.0000  TO    0.0000    m²/s
VELOCITY          =   0.00560 TO    0.00786   m/s
DEPTH             =   0.05    TO    0.05      m
WIDTH             =   1.00    TO    1.00      m

BOD DECAY         =    0.13   TO    0.13      per day
NH3 DECAY         =    0.00   TO    0.00      per day
SOD               =    0.25   TO    0.25      g/m²/d
NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
REAERATION        =   18.15   TO   18.93      per day
BOD SETTLING      =    0.06   TO    0.06      per day
NBOD DECAY        =    0.06   TO    0.06      per day
NBOD SETTLING     =    0.06   TO    0.06      per day

TEMPERATURE       =   30.80   TO   30.80      deg C
DISSOLVED OXYGEN  =    6.51   TO    7.19      mg/L


    .....EXECUTION COMPLETED
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Appendix D2 – Bayou Lacombe Summer Justifications

DATA TYPE 3 - PROGRAM CONSTANTS			
CONSTANT NAME	**VALUE**	**UNITS**	**DATA SOURCE**
DISPERSION EQUATION	1		Dispersion values were entered manually.
OCEAN EXCHANGE RATIO	1		Accounts for dispersive/tidal exchange between the lower boundary and the stream
TIDE HEIGHT	0.152	meters	Typical for Lake Pontchartrain stream. Verified by data from New Canal Station.
TIDAL PERIOD	25	hours	LAQUAL Default
PERIOD OF TIDAL RISE	12.5	hours	LAQUAL Default
KL MINIMUM	0.7	m/day	Louisiana Standard Practice. The minimum KL of 2.3 ft/day converted to 0.70 m/day.
INHIBITION CONTROL VALUE	3		The water column dissolved oxygen demand is assumed to come primarily from facultative bacteria under anoxic conditions and SOD is not influenced by modeled dissolved oxygen levels in the upper water column.
K2 MAXIMUM	25	1/day at 20 deg C	Louisiana Standard Practice
HYDRAULIC CALCULATION METHOD	2		The low slopes in this waterbody cause a substantial amount of water to be present during critical flow conditions. This method allows the model to predict a more accurate depth and width during low flow conditions.
ALGAE OXYGEN PROD	0.05	mg O/µg chl-a/day	LAQUAL Default. Accounts for the net oxygen production per unit of chlorophyll-a
SETTLING RATE UNITS	2		Sets units to 1/day.

DATA TYPE 8 - REACH IDENTIFICATION DATA						
Reach	**ID**	**Name**	**Upstream River Kilometer**	**Downstream River Kilometer**	**Element Length, Kilometer**	**Data Source**
1	BL	BL01 TO Hwy 36 Ditch BL	31.0	30.9	0.01	SURVEY GPS DATA (WHERE APPLICABLE) AND ARCGIS--ALL REACHES
2	D1	Hwy 36 Ditch BL	4.2	0.0	0.1	
3	BL	Hwy 36 Ditch BL to BL02	30.9	25.2	0.1	
4	BL	BL02 to BL03	25.2	20.3	0.1	
5	BL	BL03 to SNG Ditch	20.3	19.4	0.1	
6	D2	SNG Ditch	2.1	0.0	0.1	
7	BL	SNG Ditch to Hwy 434/I-12 Ditch BL	19.4	19.1	0.1	
8	D3	Hwy 434/I-12 Ditch BL	3.0	0.0	0.1	
9	BL	Hwy 434/I-12 Ditch BL to BL04	19.1	18.9	0.1	
10	BL	BL04 to Keller Barn Ditch	18.9	17.3	0.1	
11	D4	Keller Barn Ditch	0.9	0.0	0.1	
12	BL	Keller Barn Ditch To Beau Village Ditch	17.3	14.6	0.1	
13	D5	Beau Village Ditch	3	0	0.1	
14	BL	Beau Village Ditch to BL05	14.6	13.2	0.1	
15	BL	BL05 to Hwy 190 Ditch BL	13.2	11.1	0.1	
16	D6	Hwy 190 Ditch BL	2.2	0	0.1	
17	BL	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	11.1	11	0.01	
18	D7	Hwy 434/190 Ditch BL	2.2	0	0.1	
19	BL	Hwy 434/190 Ditch BL to BL06	11	10.9	0.01	
20	BL	BL06 to confluence with BBB	10.9	8.8	0.1	
21	BB	BB03 to Hwy 434/I-12 ditch BBB	5.2	5.1	0.01	
22	D8	Hwy 434/I-12 Ditch BBB	6.5	0	0.1	
23	BB	Hwy 434/I-12 Ditch BBB to Folger Ditch	5.1	4.9	0.01	
24	D9	Folger Ditch	0.4	0	0.1	
25	BB	Folger Ditch to BB02	4.9	2	0.1	
26	BB	BB02 to Berry Todd Rd Ditch	2	1.9	0.01	
27	DA	Berry Todd Rd Ditch	2	0	0.1	
28	BB	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	1.9	0.8	0.1	
29	DB	Hwy 190 Ditch BBB	1.3	0	0.1	
30	BB	Hwy 190 Ditch BBB to BB01	0.8	0.3	0.1	
31	BB	BB01 to Confluence With Bayou Lacombe	0.3	0	0.1	
32	BL	Big Branch Bayou to BL07	8.8	8.7	0.01	
33	BL	BL07 to confluence w/ Cypress Bayou	8.7	6.3	0.1	
34	CB	CB03 to Hwy 190 ditch CB	4.9	4.6	0.1	
35	DC	Hwy 190 Ditch CB	1.6	0	0.1	
36	CB	Hwy 190 Ditch CB to CB02	4.6	2.9	0.1	
37	CB	CB02 to CB01	2.9	0.2	0.1	
38	CB	CB01 to confluence w/ Bayou Lacombe	0.2	0	0.1	
39	BL	Cypress Bayou to BL08	6.3	6.1	0.1	
40	BL	BL08 to BL09	6.1	0.3	0.1	
41	BL	BL09 to Lake Pontchartrain	0.3	0	0.1	

		DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS				ATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENT				YPE 9 - ADVECTIVE HYDRAULIC COEFF	
Reach	Name	Width Coeff. "a"	Width Exp. "b"	Width Const.	Data Source	Depth Coeff. "d"	Depth Exp. "e"	Depth Const. "f"	Data Source	Manning's "n"	Data Source
1	BL01 TO Hwy 36 Ditch BL	0	0	5.79	BL01	0	0	0.4	BL01	0.02	TYPICAL FOR LA STREAMS-ALL REACHES
2	Hwy 36 Ditch BL	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
3	Hwy 36 Ditch BL to BL02	0	0	5.79	BL01	0	0	0.4	BL01	0.02	
4	BL02 to BL03	0	0	6.1	BL02	0	0	0.18	BL02	0.02	
5	BL03 to SNG Ditch	0	0	7.16	BL03	0	0	0.17	BL03	0.02	
6	SNG Ditch	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0	0	7.16	BL03	0	0	0.17	BL03	0.02	
8	Hwy 434/I-12 Ditch BL	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
9	Hwy 434/I-12 Ditch BL to BL04	0	0	7.16	BL03	0	0	0.17	BL03	0.02	
10	BL04 to Keller Barn Ditch	0	0	9.3	BL04	0	0	0.42	BL04	0.02	
11	Keller Barn Ditch	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
12	Keller Barn Ditch To Beau Village Ditch	0	0	9.3	BL04	0	0	0.42	BL04	0.02	
13	Beau Village Ditch	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
14	Beau Village Ditch to BL05	0	0	9.3	BL04	0	0	0.42	BL04	0.02	
15	BL05 to Hwy 190 Ditch BL	0	0	25.3	BL05	0	0	3.6	BL05	0.02	
16	Hwy 190 Ditch BL	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0	0	25.3	BL05	0	0	3.6	BL05	0.02	
18	Hwy 434/190 Ditch BL	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
19	Hwy 434/190 Ditch BL to BL06	0	0	25.3	BL05	0	0	3.6	BL05	0.02	
20	BL06 to confluence with BBB	0	0	44.2	BL06	0	0	3.15	BL06	0.02	
21	BB03 to Hwy 434/I-12 ditch BBB	0	0	3.66	BB03	0	0	0.39	BB03	0.02	
22	Hwy 434/I-12 Ditch BBB	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0	0	3.66	BB03	0	0	0.39	BB03	0.02	
24	Folger Ditch	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
25	Folger Ditch to BB02	0	0	3.66	BB03	0	0	0.39	BB03	0.02	
26	BB02 to Berry Todd Rd Ditch	0	0	15.24	BB02	0	0	1.12	BB02	0.02	
27	Berry Todd Rd Ditch	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	0	0	15.24	BB02	0	0	1.12	BB02	0.02	
29	Hwy 190 Ditch BBB	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
30	Hwy 190 Ditch BBB to BB01	0	0	15.24	BB02	0	0	1.12	BB02	0.02	
31	BB01 to Confluence With Bayou Lacombe	0	0	39.62	BB01	0	0	2.13	BB01	0.02	
32	Big Branch Bayou to BL07	0	0	82.3	BL07	0	0	2.56	BL07	0.02	
33	BL07 to confluence w/ Cypress Bayou	0	0	82.3	BL07	0	0	2.56	BL07	0.02	
34	CB03 to Hwy 190 ditch CB	0	0	4.69	CB03	0	0	0.29	CB03	0.02	
35	Hwy 190 Ditch CB	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
36	Hwy 190 Ditch CB to CB02	0	0	4.69	CB03	0	0	0.29	CB03	0.02	
37	CB02 to CB01	0	0	14.02	CB02	0	0	1.39	CB02	0.02	
38	CB01 to confluence w/ Bayou Lacombe	0	0	35.36	CB01	0	0	2.73	CB01	0.02	
39	Cypress Bayou to BL08	0	0	74.68	BL08	0	0	3.03	BL08	0.02	
40	BL08 to BL09	0	0	74.68	BL08	0	0	3.03	BL08	0.02	
41	BL09 to Lake Pontchartrain	0	0	99.36	BL09	0	0	1.8	BL09	0.02	

		DATA TYPE 10 - DISPERSIVE HYDRAULIC COEFFICIENTS			
Reach	**Name**	**Tidal Range**	**Data Source**	**Dispersion Coeff. "a"**	**Data Source**
1	BL01 TO Hwy 36 Ditch BL	0	For all reaches, flow measurements and water quality were analyzed to determine the extent of the tidal influence.	0.5	For all reaches, dispersion was entered manually and set at values similar to Tchefuncte River and Bayous Bonfouca and Liberty. Dispersion was not included for the ditches.
2	Hwy 36 Ditch BL	0		0.0	
3	Hwy 36 Ditch BL to BL02	0		0.5	
4	BL02 to BL03	0		0.5	
5	BL03 to SNG Ditch	0		0.5	
6	SNG Ditch	0		0.0	
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0		0.5	
8	Hwy 434/I-12 Ditch BL	0		0.0	
9	Hwy 434/I-12 Ditch BL to BL04	0		0.5	
10	BL04 to Keller Barn Ditch	0.25		0.5	
11	Keller Barn Ditch	0		0.0	
12	Keller Barn Ditch To Beau Village Ditch	0.25		0.5	
13	Beau Village Ditch	0		0.0	
14	Beau Village Ditch to BL05	0.5		0.5	
15	BL05 to Hwy 190 Ditch BL	0.75		0.5	
16	Hwy 190 Ditch BL	0		0.0	
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.75		0.5	
18	Hwy 434/190 Ditch BL	0		0.0	
19	Hwy 434/190 Ditch BL to BL06	0.75		0.5	
20	BL06 to confluence with BBB	1		2.0	
21	BB03 to Hwy 434/I-12 ditch BBB	0.25		0.5	
22	Hwy 434/I-12 Ditch BBB	0		0.0	
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0.5		1.0	
24	Folger Ditch	0		0.0	
25	Folger Ditch to BB02	0.75		2.0	
26	BB02 to Berry Todd Rd Ditch	1		2.5	
27	Berry Todd Rd Ditch	0		0.0	
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	1		3.5	
29	Hwy 190 Ditch BBB	0		0.0	
30	Hwy 190 Ditch BBB to BB01	1		5.5	
31	BB01 to Confluence With Bayou Lacombe	1		7.5	
32	Big Branch Bayou to BL07	1		3.0	
33	BL07 to confluence w/ Cypress Bayou	1		4.0	
34	CB03 to Hwy 190 ditch CB	0.5		1.0	
35	Hwy 190 Ditch CB	0		0.0	
36	Hwy 190 Ditch CB to CB02	0.75		3.5	
37	CB02 to CB01	1		5.5	
38	CB01 to confluence w/ Bayou Lacombe	1		7.5	
39	Cypress Bayou to BL08	1		5.0	
40	BL08 to BL09	1		6.0	
41	BL09 to Lake Pontchartrain	1		7.5	

DATA TYPE 11 - INITIAL CONDITIONS								
Reach	ID	Name	Temp, deg C	Sal, ppt	DO, mg/l	Data Source	Chlorophyll a	Data Source
1	BL	BL01 TO Hwy 36 Ditch BL	28.40	0.01	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	BL01
2	D1	Hwy 36 Ditch BL	28.40	0.01	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
3	BL	Hwy 36 Ditch BL to BL02	28.40	0.01	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	BL01
4	BL	BL02 to BL03	28.40	0.00	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	BL02
5	BL	BL03 to SNG Ditch	28.40	0.00	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0	BL03
6	D2	SNG Ditch	28.40	0.0	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
7	BL	SNG Ditch to Hwy 434/I-12 Ditch BL	28.40	0.00	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0	BL03
8	D3	Hwy 434/I-12 Ditch BL	28.40	0.0	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
9	BL	Hwy 434/I-12 Ditch BL to BL04	28.40	0.00	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0	BL03
10	BL	BL04 to Keller Barn Ditch	28.40	0.02	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0	BL04
11	D4	Keller Barn Ditch	28.40	0.02	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
12	BL	Keller Barn Ditch To Beau Village Ditch	28.40	0.02	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0	BL04
13	D5	Beau Village Ditch	28.40	0.02	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
14	BL	Beau Village Ditch to BL05	28.40	0.02	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	BL04
15	BL	BL05 to Hwy 190 Ditch BL	28.40	0.36	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	10.0	BL05. Reduced to 10-LA standard practice

DATA TYPE 11 - INITIAL CONDITIONS								
Reach	ID	Name	Temp, deg C	Sal, ppt	DO, mg/l	Data Source	Chlorophyll a	Data Source
16	D6	Hwy 190 Ditch BL	28.40	0.36	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
17	BL	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	28.40	0.36	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	10.0	BL05. Reduced to 10-LA standard practice
18	D7	Hwy 434/190 Ditch BL	28.40	0.36	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
19	BL	Hwy 434/190 Ditch BL to BL06	30.80	0.36	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL05. Reduced to 10-LA standard practice
20	BL	BL06 to confluence with BBB	30.80	4.78	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL06. Reduced to 10-LA standard practice
21	BB	BB03 to Hwy 434/I-12 ditch BBB	28.40	0	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	2.6	BB03 lab data
22	D8	Hwy 434/I-12 Ditch BBB	28.40	0.0	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
23	BB	Hwy 434/I-12 Ditch BBB to Folger Ditch	28.40	0	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	2.6	BB03 lab data
24	D9	Folger Ditch	28.40	0.0	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
25	BB	Folger Ditch to BB02	28.40	0	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	2.6	BB03 lab data
26	BB	BB02 to Berry Todd Rd Ditch	28.40	0.35	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	10.0	BB02 lab data. Reduced to 10-LA standard practice
27	DA	Berry Todd Rd Ditch	28.40	0.35	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
28	BB	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	28.40	0.35	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	10.0	BB02 lab data. Reduced to 10-LA standard practice
29	DB	Hwy 190 Ditch BBB	28.40	0.35	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
30	BB	Hwy 190 Ditch BBB to BB01	30.80	0.35	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BB02 lab data. Reduced to 10-LA standard practice

DATA TYPE 11 - INITIAL CONDITIONS								
Reach	ID	Name	Temp, deg C	Sal, ppt	DO, mg/l	Data Source	Chlorophyll a	Data Source
31	BB	BB01 to Confluence With Bayou Lacombe	30.80	4.19	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BB01 lab data. Reduced to 10-LA standard practice
32	BL	Big Branch Bayou to BL07	30.80	4.08	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL07 lab data. Reduced to 10-LA standard practice
33	BL	BL07 to confluence w/ Cypress Bayou	30.80	4.08	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL07 lab data. Reduced to 10-LA standard practice
34	CB	CB03 to Hwy 190 ditch CB	30.80	0.14	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	CB03 lab data. Reduced to 10-LA standard practice
35	DC	Hwy 190 Ditch CB	30.80	0.14	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
36	CB	Hwy 190 Ditch CB to CB02	30.80	0.14	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	CB03 lab data. Reduced to 10-LA standard practice
37	CB	CB02 to CB01	30.80	3.82	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	Average of CB03 and CB01. Reduced to 10-LA standard practice
38	CB	CB01 to confluence w/ Bayou Lacombe	30.80	5.34	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	CB01 lab data. Reduced to 10-LA standard practice
39	BL	Cypress Bayou to BL08	30.80	5.26	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL08 lab data. Reduced to 10-LA standard practice
40	BL	BL08 to BL09	30.80	5.26	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL08 lab data. Reduced to 10-LA standard practice
41	BL	BL09 to Lake Pontchartrain	30.80	7.05	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL09 lab data. Reduced to 10-LA standard practice

			DATA TYPE 12 - REAERATION, SEDIMENT				DATA TYPE 12 -		DATA TYPE 12 -	
REACH	ID	NAME	K_2 OPT	Data Source	BKGRND SOD, $gmO_2/m^2/day$ at 20 deg C	Data Source	Aerobic BOD1 Decay Rate (1/day)	Data Source	BOD1 SETT RATE (1/day)	Data Source
1	BL	BL01 TO Hwy 36 Ditch BL	11	Texas Equation	0.00	For all reaches: reduction required to meet criteria	0.034	BL01 lab data	0.05	Calibration--For all reaches except generic ditches
2	D1	Hwy 36 Ditch BL	15	Louisiana Equation	0.63		0.08	Generic Ditch	0.05	Generic Ditch
3	BL	Hwy 36 Ditch BL to BL02	11	Texas Equation	0.31		0.034	BL01 lab data	0.05	
4	BL	BL02 to BL03	11	Texas Equation	0.31		0.031	BL02 lab data	0.05	
5	BL	BL03 to SNG Ditch	11	Texas Equation	2.19		0.038	BL03 lab data	0.05	
6	D2	SNG Ditch	15	Louisiana Equation	0.63		0.08	Generic Ditch	0.05	Generic Ditch
7	BL	SNG Ditch to Hwy 434/I-12 Ditch BL	11	Texas Equation	2.19		0.038	BL03 lab data	0.05	
8	D3	Hwy 434/I-12 Ditch BL	15	Louisiana Equation	0.63		0.08	Generic Ditch	0.05	Generic Ditch
9	BL	Hwy 434/I-12 Ditch BL to BL04	11	Texas Equation	2.19		0.038	BL03 lab data	0.05	
10	BL	BL04 to Keller Barn Ditch	11	Texas Equation	1.69		0.029	BL04 lab data	0.05	
11	D4	Keller Barn Ditch	15	Louisiana Equation	0.19		0.08	Generic Ditch	0.05	Generic Ditch
12	BL	Keller Barn Ditch To Beau Village Ditch	11	Texas Equation	1.69		0.029	BL04 lab data	0.05	
13	D5	Beau Village Ditch	15	Louisiana Equation	0.19		0.08	Generic Ditch	0.05	Generic Ditch
14	BL	Beau Village Ditch to BL05	11	Texas Equation	1.69		0.029	BL04 lab data	0.05	
15	BL	BL05 to Hwy 190 Ditch BL	3	O'Connor-Dobbins	1.13		0.045	BL05 lab data	0.05	
16	D6	Hwy 190 Ditch BL	15	Louisiana Equation	0.38		0.08	Generic Ditch	0.05	Generic Ditch
17	BL	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	3	O'Connor-Dobbins	2.25		0.045	BL05 lab data	0.05	
18	D7	Hwy 434/190 Ditch BL	15	Louisiana Equation	0.38		0.08	Generic Ditch	0.05	Generic Ditch
19	BL	Hwy 434/190 Ditch BL to BL06	3	O'Connor-Dobbins	2.25		0.045	BL05 lab data	0.05	
20	BL	BL06 to confluence with BBB	3	O'Connor-Dobbins	2.63		0.041	BL06 lab data	0.05	
21	BB	BB03 to Hwy 434/I-12 ditch BBB	11	Texas Equation	0.50		0.07	BB03 lab data (due to graphing error in spreadsheet, this is based on values in CB and BBB)	0.05	
22	D8	Hwy 434/I-12 Ditch BBB	15	Louisiana Equation	0.13		0.08	Generic Ditch	0.05	Generic Ditch

			DATA TYPE 12 - REAERATION, SEDIMENT				DATA TYPE 12 -		DATA TYPE 12 -	
REACH	ID	NAME	K_2 OPT	Data Source	BKGRND SOD, $gmO_2/m^2/day$ at 20 deg C	Data Source	Aerobic BOD1 Decay Rate (1/day)	Data Source	BOD1 SETT RATE (1/day)	Data Source
23	BB	Hwy 434/I-12 Ditch BBB to Folger Ditch	11	Texas Equation	0.50		0.07	BB03 lab data (due to graphing error in spreadsheet, this is based on values in CB and BBB)	0.05	
24	D9	Folger Ditch	15	Louisiana Equation	0.13		0.08	Generic Ditch	0.05	Generic Ditch
25	BB	Folger Ditch to BB02	11	Texas Equation	1.50		0.07	BB03 lab data (due to graphing error in spreadsheet, this is based on values in CB and BBB)	0.05	
26	BB	BB02 to Berry Todd Rd Ditch	3	O'Connor-Dobbins	1.75		0.053	BB02 lab data	0.05	
27	DA	Berry Todd Rd Ditch	15	Louisiana Equation	0.13		0.08	Generic Ditch	0.05	Generic Ditch
28	BB	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	3	O'Connor-Dobbins	1.75		0.053	BB02 lab data	0.05	
29	DB	Hwy 190 Ditch BBB	15	Louisiana Equation	0.13		0.08	Generic Ditch	0.05	Generic Ditch
30	BB	Hwy 190 Ditch BBB to BB01	3	O'Connor-Dobbins	1.75		0.053	BB02 lab data	0.05	
31	BB	BB01 to Confluence With Bayou Lacombe	3	O'Connor-Dobbins	1.75		0.049	BB01 lab data	0.05	
32	BL	Big Branch Bayou to BL07	3	O'Connor-Dobbins	4.38		0.048	BL07 lab	0.05	
33	BL	BL07 to confluence w/ Cypress Bayou	3	O'Connor-Dobbins	1.25		0.048	BL07 lab	0.05	
34	CB	CB03 to Hwy 190 ditch CB	11	Texas Equation	1.50		0.069	CB03 lab data	0.05	
35	DC	Hwy 190 Ditch CB	15	Louisiana Equation	0.13		0.08	Generic Ditch	0.05	Generic Ditch
36	CB	Hwy 190 Ditch CB to CB02	11	Texas Equation	1.50		0.069	CB03 lab data	0.05	
37	CB	CB02 to CB01	3	O'Connor-Dobbins	1.50		0.052	CB02 lab data	0.05	
38	CB	CB01 to confluence w/ Bayou Lacombe	3	O'Connor-Dobbins	0.00		0.054	CB01 lab data	0.05	
39	BL	Cypress Bayou to BL08	3	O'Connor-Dobbins	1.25		0.051	BL08 lab data	0.05	
40	BL	BL08 to BL09	3	O'Connor-Dobbins	1.69		0.051	BL08 lab data	0.05	
41	BL	BL09 to Lake Pontchartrain	3	O'Connor-Dobbins	0.00		0.063	BL09 lab data	0.05	

DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS					
Reach	**Name**	**NBOD decay rate, 1/day**	**Data Source**	**NBOD settling rate, 1/day**	**Data Source**
1	BL01 TO Hwy 36 Ditch BL	0.005	BL01 lab	0.05	Calibration--for all reaches except ditches
2	Hwy 36 Ditch BL	0.030	Generic Ditch	0.05	Generic Ditch
3	Hwy 36 Ditch BL to BL02	0.005	BL01 lab	0.05	
4	BL02 to BL03	0.595	BL02 lab	0.05	
5	BL03 to SNG Ditch	0.041	BL03 lab	0.05	
6	SNG Ditch	0.030	Generic Ditch	0.05	Generic Ditch
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0.041	BL03 lab	0.05	
8	Hwy 434/I-12 Ditch BL	0.030	Generic Ditch	0.05	Generic Ditch
9	Hwy 434/I-12 Ditch BL to BL04	0.041	BL03 lab	0.05	
10	BL04 to Keller Barn Ditch	0.070	BL04 lab	0.05	
11	Keller Barn Ditch	0.030	Generic Ditch	0.05	Generic Ditch
12	Keller Barn Ditch To Beau Village Ditch	0.070	BL04 lab	0.05	
13	Beau Village Ditch	0.03	Generic Ditch	0.05	Generic Ditch
14	Beau Village Ditch to BL05	0.07	BL04 lab	0.05	
15	BL05 to Hwy 190 Ditch BL	0.052	BL05 lab	0.05	
16	Hwy 190 Ditch BL	0.03	Generic Ditch	0.05	Generic Ditch
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.052	BL05 lab	0.05	
18	Hwy 434/190 Ditch BL	0.03	Generic Ditch	0.05	Generic Ditch
19	Hwy 434/190 Ditch BL to BL06	0.052	BL05 lab	0.05	
20	BL06 to confluence with BBB	0.089	BL06 lab	0.05	
21	BB03 to Hwy 434/I-12 ditch BBB	0.595	BB03 lab	0.05	
22	Hwy 434/I-12 Ditch BBB	0.03	Generic Ditch	0.05	Generic Ditch
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0.595	BB03 lab	0.05	
24	Folger Ditch	0.03	Generic Ditch	0.05	Generic Ditch
25	Folger Ditch to BB02	0.595	BB03 lab	0.05	
26	BB02 to Berry Todd Rd Ditch	0.106	BB02 lab	0.05	
27	Berry Todd Rd Ditch	0.03	Generic Ditch	0.05	Generic Ditch
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	0.106	BB02 lab	0.05	
29	Hwy 190 Ditch BBB	0.03	Generic Ditch	0.05	Generic Ditch
30	Hwy 190 Ditch BBB to BB01	0.106	BB02 lab	0.05	
31	BB01 to Confluence With Bayou Lacombe	0.042	BB01 lab data	0.05	
32	Big Branch Bayou to BL07	0.129	BL07 lab	0.05	
33	BL07 to confluence w/ Cypress Bayou	0.129	BL07 lab	0.05	
34	CB03 to Hwy 190 ditch CB	0.136	CB03 lab	0.05	
35	Hwy 190 Ditch CB	0.03	Generic Ditch	0.05	Generic Ditch
36	Hwy 190 Ditch CB to CB02	0.136	CB03 lab	0.05	
37	CB02 to CB01	0.054	CB02 lab	0.05	
38	CB01 to confluence w/ Bayou Lacombe	0.08	CB01 lab	0.05	
39	Cypress Bayou to BL08	0.064	BL08 lab	0.05	
40	BL08 to BL09	0.064	BL08 lab	0.05	
41	BL09 to Lake Pontchartrain	0.101	BL09 lab	0.05	

DATA TYPE 16 - INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVE								
Reach	Reach Name	Incr. Inflow, m^3 per sec	Data Source	Temp, deg C	Sal., ppt	Cons. Mat I=Chloride mg/L	Cons. Mat II=Cond µS/cm	Data Source
1	BL01 TO Hwy 36 Ditch BL	0.179959	Flow balance	20.85	0.01	5.6	51.6	BL01 CONT MON AND LAB DATA
2	Hwy 36 Ditch BL	0.000000						
3	Hwy 36 Ditch BL to BL02	0.000000						
4	BL02 to BL03	0.041881	Flow balance	21.28	0.00	5.5	56	BL02 CONT MON AND LAB DATA
5	BL03 to SNG Ditch	0.043261	Flow balance	22.03	0.00	5.7	58.04	BL03 CONT MON AND LAB DATA
6	SNG Ditch	0.000000						
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0.000000						
8	Hwy 434/I-12 Ditch BL	0.000000						
9	Hwy 434/I-12 Ditch BL to BL04	0.000000						
10	BL04 to Keller Barn Ditch	0.000000						
11	Keller Barn Ditch	0.000000						
12	Keller Barn Ditch To Beau Village Ditch	0.000000						
13	Beau Village Ditch	0.000000						
14	Beau Village Ditch to BL05	0.000000						
15	BL05 to Hwy 190 Ditch BL	0.000000						
16	Hwy 190 Ditch BL	0.000000						
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.000000						
18	Hwy 434/190 Ditch BL	0.000000						
19	Hwy 434/190 Ditch BL to BL06	0.000000						
20	BL06 to confluence with BBB	0.000000						
21	BB03 to Hwy 434/I-12 ditch BBB	0.147505	Flow balance	21.66	0.00	10.4	95.61	BB03 CONT MON AND LAB DATA
22	Hwy 434/I-12 Ditch BBB	0.000000						
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0.000000						
24	Folger Ditch	0.000000						
25	Folger Ditch to BB02	0.000000						
26	BB02 to Berry Todd Rd Ditch	0.000000						
27	Berry Todd Rd Ditch	0.000000						
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	0.000000						
29	Hwy 190 Ditch BBB	0.000000						
30	Hwy 190 Ditch BBB to BB01	0.000000						
31	BB01 to Confluence With Bayou Lacombe	0.000000						
32	Big Branch Bayou to BL07	0.000000						
33	BL07 to confluence w/ Cypress Bayou	0.000000						
34	CB03 to Hwy 190 ditch CB	0.188823	Flow balance	23.25	0.14	22.5	286.9	CB03 INSITU AND LAB DATA
35	Hwy 190 Ditch CB	0.000000						
36	Hwy 190 Ditch CB to CB02	0.000000						
37	CB02 to CB01	0.000000						
38	CB01 to confluence w/ Bayou Lacombe	0.000000						
39	Cypress Bayou to BL08	0.000000						
40	BL08 to BL09	0.000000						
41	BL09 to Lake Pontchartrain	0.000000						

DATA TYPE 17 - INCREMENTAL DATA FOR DO, BOD, AND NITROGEN						
Reach	Reach Name	DO, mg/l	Data Source	UCBOD1, mg/l	NBOD, mg/L	Data Source
1	BL01 TO Hwy 36 Ditch BL	5	Criterion	1.91	0.0	Reduction required to meet criterion
2	Hwy 36 Ditch BL					
3	Hwy 36 Ditch BL to BL02					
4	BL02 to BL03	5	Criterion	1.65	0.03	Reduction required to meet criterion
5	BL03 to SNG Ditch	5	Criterion	2.99	0.49	Reduction required to meet criterion
6	SNG Ditch					
7	SNG Ditch to Hwy 434/I-12 Ditch BL					
8	Hwy 434/I-12 Ditch BL					
9	Hwy 434/I-12 Ditch BL to BL04					
10	BL04 to Keller Barn Ditch					
11	Keller Barn Ditch					
12	Keller Barn Ditch To Beau Village Ditch					
13	Beau Village Ditch					
14	Beau Village Ditch to BL05					
15	BL05 to Hwy 190 Ditch BL					
16	Hwy 190 Ditch BL					
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL					
18	Hwy 434/190 Ditch BL					
19	Hwy 434/190 Ditch BL to BL06					
20	BL06 to confluence with BBB					
21	BB03 to Hwy 434/I-12 ditch BBB	4	Criterion	0.67	0.01	Reduction required to meet criterion
22	Hwy 434/I-12 Ditch BBB					
23	Hwy 434/I-12 Ditch BBB to Folger Ditch					
24	Folger Ditch					
25	Folger Ditch to BB02					
26	BB02 to Berry Todd Rd Ditch					
27	Berry Todd Rd Ditch					
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB					
29	Hwy 190 Ditch BBB					
30	Hwy 190 Ditch BBB to BB01					
31	BB01 to Confluence With Bayou Lacombe					
32	Big Branch Bayou to BL07					
33	BL07 to confluence w/ Cypress Bayou					
34	CB03 to Hwy 190 ditch CB	4	Criterion	4.1	0.64	Reduction required to meet criterion
35	Hwy 190 Ditch CB					
36	Hwy 190 Ditch CB to CB02					
37	CB02 to CB01					
38	CB01 to confluence w/ Bayou Lacombe					
39	Cypress Bayou to BL08					
40	BL08 to BL09					
41	BL09 to Lake Pontchartrain					

DATA TYPE 19 - NONPOINT SOURCES					
Reach	Reach Name	Length of Reach, km	UCBOD1, kg/day	NBOD, kg/day	Data Source
1	BL01 TO Hwy 36 Ditch BL	0.1	0.000	0.000	All reaches: Reduction required to meet criterion.
2	Hwy 36 Ditch BL	4.2	0.079	0.021	
3	Hwy 36 Ditch BL to BL02	5.7	0.000	0.000	
4	BL02 to BL03	4.9	31.250	6.250	
5	BL03 to SNG Ditch	0.9	0.000	0.000	
6	SNG Ditch	2.1	0.040	0.011	
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0.3	0.000	0.000	
8	Hwy 434/I-12 Ditch BL	3.0	0.058	0.016	
9	Hwy 434/I-12 Ditch BL to BL04	0.2	0.000	0.000	
10	BL04 to Keller Barn Ditch	1.6	18.750	9.750	
11	Keller Barn Ditch	0.9	0.005	0.002	
12	Keller Barn Ditch To Beau Village Ditch	2.7	31.875	9.750	
13	Beau Village Ditch	3.0	0.018	0.005	
14	Beau Village Ditch to BL05	1.4	18.750	9.750	
15	BL05 to Hwy 190 Ditch BL	2.1	93.750	33.750	
16	Hwy 190 Ditch BL	2.2	0.026	0.008	
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.1	0.000	0.000	
18	Hwy 434/190 Ditch BL	2.2	0.026	0.008	
19	Hwy 434/190 Ditch BL to BL06	0.1	0.000	0.000	
20	BL06 to confluence with BBB	2.1	112.500	0.000	
21	BB03 to Hwy 434/I-12 ditch BBB	0.1	0.000	0.000	
22	Hwy 434/I-12 Ditch BBB	6.5	0.025	0.007	
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0.2	0.000	0.000	
24	Folger Ditch	0.4	0.001	0.001	
25	Folger Ditch to BB02	2.9	6.250	0.000	
26	BB02 to Berry Todd Rd Ditch	0.1	0.000	0.000	
27	Berry Todd Rd Ditch	2.0	0.008	0.002	
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	1.1	8.750	0.000	
29	Hwy 190 Ditch BBB	1.3	0.005	0.002	
30	Hwy 190 Ditch BBB to BB01	0.5	8.750	0.000	
31	BB01 to Confluence With Bayou Lacombe	0.3	97.500	50.000	
32	Big Branch Bayou to BL07	0.1	0.000	0.000	
33	BL07 to confluence w/ Cypress Bayou	2.4	250.000	0.000	
34	CB03 to Hwy 190 ditch CB	0.3	0.000	0.000	
35	Hwy 190 Ditch CB	1.6	0.006	0.002	
36	Hwy 190 Ditch CB to CB02	1.7	16.250	0.000	
37	CB02 to CB01	2.7	37.500	0.000	
38	CB01 to confluence w/ Bayou Lacombe	0.2	12.500	0.000	
39	Cypress Bayou to BL08	0.2	0.000	0.000	
40	BL08 to BL09	5.8	1687.500	562.500	
41	BL09 to Lake Pontchartrain	0.3	250.000	0.000	

DATA TYPE 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES							
Headwater Name	**Element No.**	**Headwater Flow, cms**	**Temp, deg C**	**Salinity, ppt**	**Conservative Material I (chloride, mg/L)**	**Conservative Material II (conductivity, µS/cm)**	**Data Source**
Bayou Lacombe	1	0.092	28.4	0.01	5.6	51.6	Flow & WQ=BL01. Temp=90th percentile temperature from water quality network site 0300.
Ditch #1: Hwy 36 ditch BL	11	0.00028	28.4	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Ditch #2: SNG ditch	168	0.00028	28.4	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Ditch #3: Hwy 434/I-12 BL	192	0.00028	28.4	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Ditch #4: Keller Barn ditch	240	0.00028	28.4	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Ditch #5: Beau Village ditch	276	0.00028	28.4	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Ditch #6: Hwy 190 ditch BL	341	0.00028	28.4	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Ditch #7: Hwy 434/190 ditch BL	373	0.00028	28.4	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Big Branch Bayou	426	0.009	28.4	0	10.4	95.61	Flow & WQ=BB03. Temp=90th percentile temperature from water quality network site 0300
Ditch #8: Hwy 434/I-12 ditch BBB	436	0.00028	28.4	0	10.4	95.61	Minimal Flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BB03
Ditch #9: Folger ditch	521	0.00028	28.4	0	10.4	95.61	Minimal Flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BB03
Ditch A: Berry Todd Rd ditch	564	0.00028	28.4	0	10.4	95.61	Minimal Flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BB03
Ditch B: Hwy 190 ditch BBB	595	0.00028	28.4	0	10.4	95.61	Minimal Flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BB03
Cypress Bayou	650	0.023	30.8	0.14	22.5	286.9	Flow & WQ=CB03. Temp=90th percentile temperature from water quality network site 1047.
Ditch C: Hwy 190 ditch CB	653	0.00028	30.8	0.14	22.5	286.9	Minimal Flow. Temp=90th percentile temperature from water quality network site 1047. WQ=CB03.

DATA TYPE 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN					
Headwater Name	**Element No.**	**Dissolved Oxygen, mg/L**	**UCBOD1, mg/l**	**UNBOD mg/L**	**Data Source**
Bayou Lacombe	1	5.0	1.913	0.000	All reaches: DO=criterion. UCBOD and UNBOD=reduction required to meet criterion.
Ditch #1: Hwy 36 ditch BL	11	5.0	2.750	1.250	
Ditch #2: SNG ditch	168	5.0	2.750	1.250	
Ditch #3: Hwy 434/I-12 BL	192	5.0	2.750	1.250	
Ditch #4: Keller Barn ditch	240	5.0	0.825	0.375	
Ditch #5: Beau Village ditch	276	5.0	0.825	0.375	
Ditch #6: Hwy 190 ditch BL	341	4.0	1.650	0.750	
Ditch #7: Hwy 434/190 ditch BL	373	4.0	1.650	0.750	
Big Branch Bayou	426	4.0	0.671	0.012	
Ditch #8: Hwy 434/I-12 ditch BBB	436	4.0	0.550	0.250	
Ditch #9: Folger ditch	521	4.0	0.550	0.250	
Ditch A: Berry Todd Rd ditch	564	4.0	0.550	0.250	
Ditch B: Hwy 190 ditch BBB	595	4.0	0.550	0.250	
Cypress Bayou	650	4.0	4.096	0.638	
Ditch C: Hwy 190 ditch CB	653	4.0	0.550	0.250	

DATA TYPE 23 - JUNCTION DATA		
Junction Name	**Computational element number of the element immediately downstream of the junction**	**Computational element number of the element immediately upstream of the junction**
Hwy 36 ditch BL confluence with Bayou Lacombe	53	10
Ditch #2-SNG Ditch confluence with Bayou Lacombe	189	167
Ditch #3-Hwy 434/I-12 Ditch BL confluence with Bayou Lacombe	222	191
Ditch #4-Keller Barn Ditch confluence with Bayou Lacombe	249	239
Ditch #5-Beau Village Ditch confluence with Bayou Lacombe	306	275
Ditch #6-Hwy 190 Ditch BL confluence with Bayou Lacombe	363	340
Ditch #7-Hwy 434/190 Ditch BL confluence with Bayou Lacombe	395	372
Ditch #8-Hwy 434/I-12 Ditch BBB confluence with Big Branch Bayou	501	435
Ditch #9-Folger Ditch confluence with Big Branch Bayou	525	520
Ditch A-Berry Todd Rd Ditch confluence with Big Branch Bayou	584	563
Ditch B-Hwy 190 Ditch BBB confluence with Big Branch Bayou	608	594
Big Branch Bayou confluence with Bayou Lacombe	616	425
Ditch C-Hwy 190 Ditch CB confluence with Cypress Bayou	669	652
Cypress Bayou confluence with Bayou Lacombe	715	649

DATA TYPE 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES									
Wasteload / Withdrawal Name	EL #	Flow, cms	Data Source	Temperature, deg C	Data Source	Salinity, ppt	Conservative Material I (chloride, mg/L)	Conservative Material II (conductivity, µS/cm)	Data Source
AI 138040, Animal Services Campus - St. Tammany Parish Government	12	0.0002191	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 120304, St Tammany Speedway	40	0.0001315	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 94746, Southern Natural Gas Co - Lacombe Compressor Station	169	0.0001369	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 155402, Axonic, LLC, Neurology Clinic	196	0.0000548	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 1 Hwy. 434/I-12 ditch BL (AIs 122894, 149786, 41574, 116987, 94618, 118350, 86020, 43188, 102362)	206	0.0002788	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 2 Hwy. 434/I-12 ditch BL (AIs 151676, 128325, 52076)	208	0.0005728	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Unnamed Tributary	223	0.004389	UNT01	21.85	UNT01	0.02	7.4	62.6	UNT01
AI 119164, St Tammany Parish Government - Keller Barn	241	0.0000076	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157591, Carmelite Spirituality Center - Sisters of Mt Carmel	272	0.0000274	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 33916, WTSO Utilities, Beau Village Subdivision	277	0.0013144	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 93344, US Fish & Wildlife Service - Southeast Louisiana Refuges	325	0.0000614	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 43023, Regina Coeli Child Development Center - Lacombe/Mandeville Head Start	342	0.0001068	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 40796, Janie Brown's Casual Restaurant	344	0.0000959	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 1 on Hwy. 190 ditch BL: AIs 157721, 154892	349	0.0000208	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 2 on Hwy. 190 ditch BL: AIs 157850, 99609, 157435	350	0.0004244	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 3 on Hwy. 190 ditch BL: AIs 89241, 84112, 43400	352	0.000804	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 4 on Hwy. 190 ditch BL: AIs 6470, 157670, 130003, 149801	353	0.0000488	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 43406, Bayou Lacombe Middle School	354	0.0002519	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 5 on Hwy. 190 ditch BL: AIs 42348, 142046, 157759, 157768, 155069, 75810, 75143, 157523	358	0.0001758	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 6 on Hwy. 190 ditch BL: AIs 33986, 70935, 151841, 122511, 114927, 43087, 162031	360	0.0012046	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities

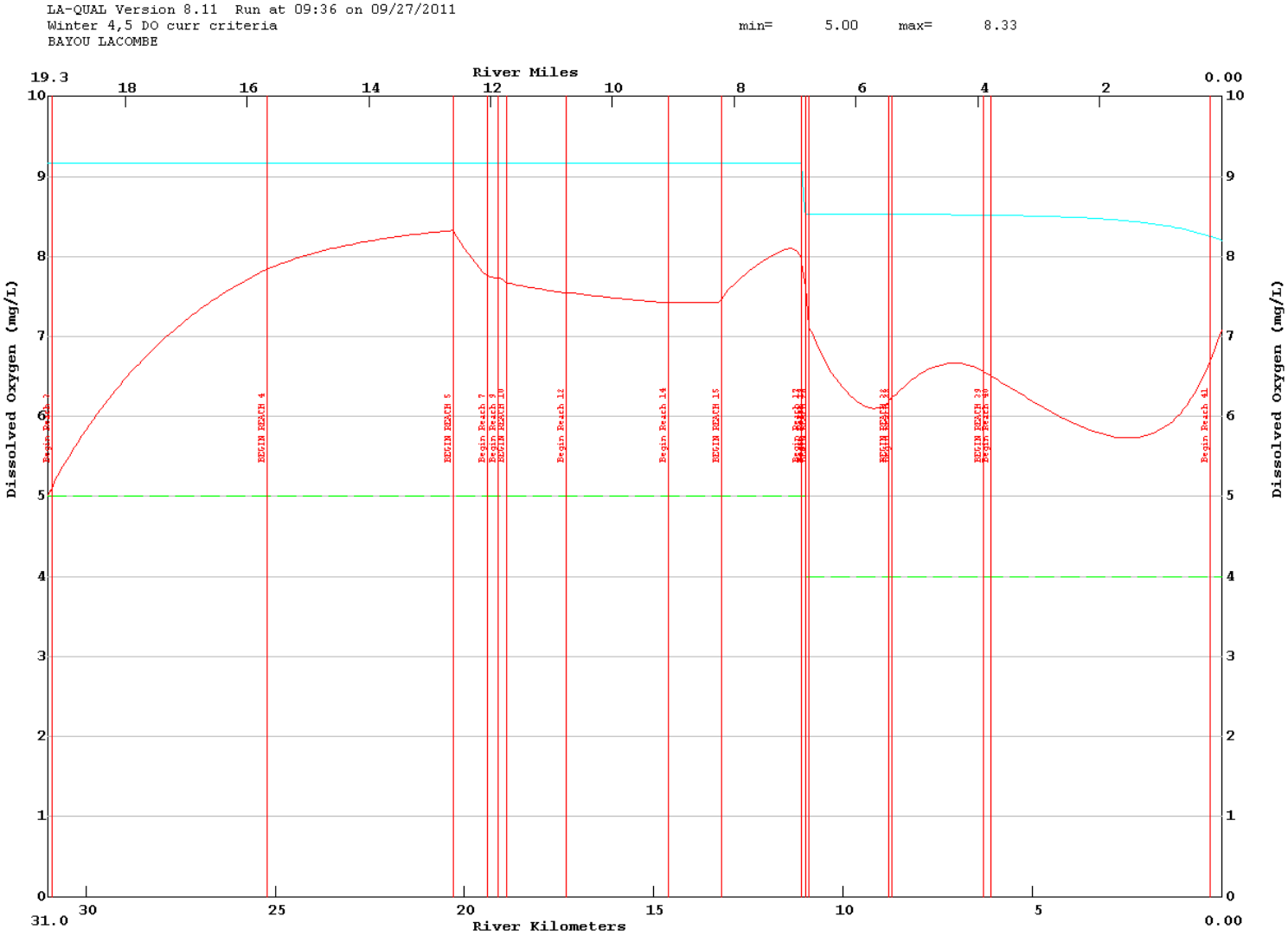
DATA TYPE 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES									
Wasteload / Withdrawal Name	EL #	Flow, cms	Data Source	Temperature, deg C	Data Source	Salinity, ppt	Conservative Material I (chloride, mg/L)	Conservative Material II (conductivity, µS/cm)	Data Source
AI 97944, Hwy 434 Mini Storage Inc	374	0.0000011	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157861, Kingdom Hall of Jehovah's Witnesses	390	0.0000411	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 119750, Highway 434 Retail Space	391	0.000012	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 165334, H2O Systems, Inc., St. Tammany Parish Coroner's Complex	442	0.0000384	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 94173, Southeastern Louisiana Water & Sewer Co.,LLC, Medcath WWTP, LA Medical Center & Heart Hospital	464	0.003286	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 114220, Folger Coffee Co - Lacombe Distribution Center	522	0.0002191	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157509, Feather & Fin Ranch	565	0.0030669	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 156133, Python Corporation - Office/Warehouse	596	0.0000066	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 101375, OW Inc - Bayou Mini Storage	602	0.0000011	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 31079, Brier Lake Utilities Inc - Brier Lake Estates	651	0.0021906	Expected flow X 1.25	23.06	survey data	0.26	23.5	516.3	survey data
AI 156693, H2O Systems Inc - Cypress Park Subdivision	652	0.0065719	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 127495, A to Z Preschool LLC	654	0.0000931	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 123821, Kevin J. Smith Construction Company - Smith Office Building	655	0.000011	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157767, St Tammany Fire Protection District 3 - Fire Station 32	660	0.0000011	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157892, Mottie McClary/Southern Motor Carrier Safety Consultants	661	0.0000023	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 119584, Tiller of the Land	663	0.0000055	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 41881, ICO Corp	674	0.0000044	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 117076, LA Pines Ranch Inc	677	0.0002738	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities

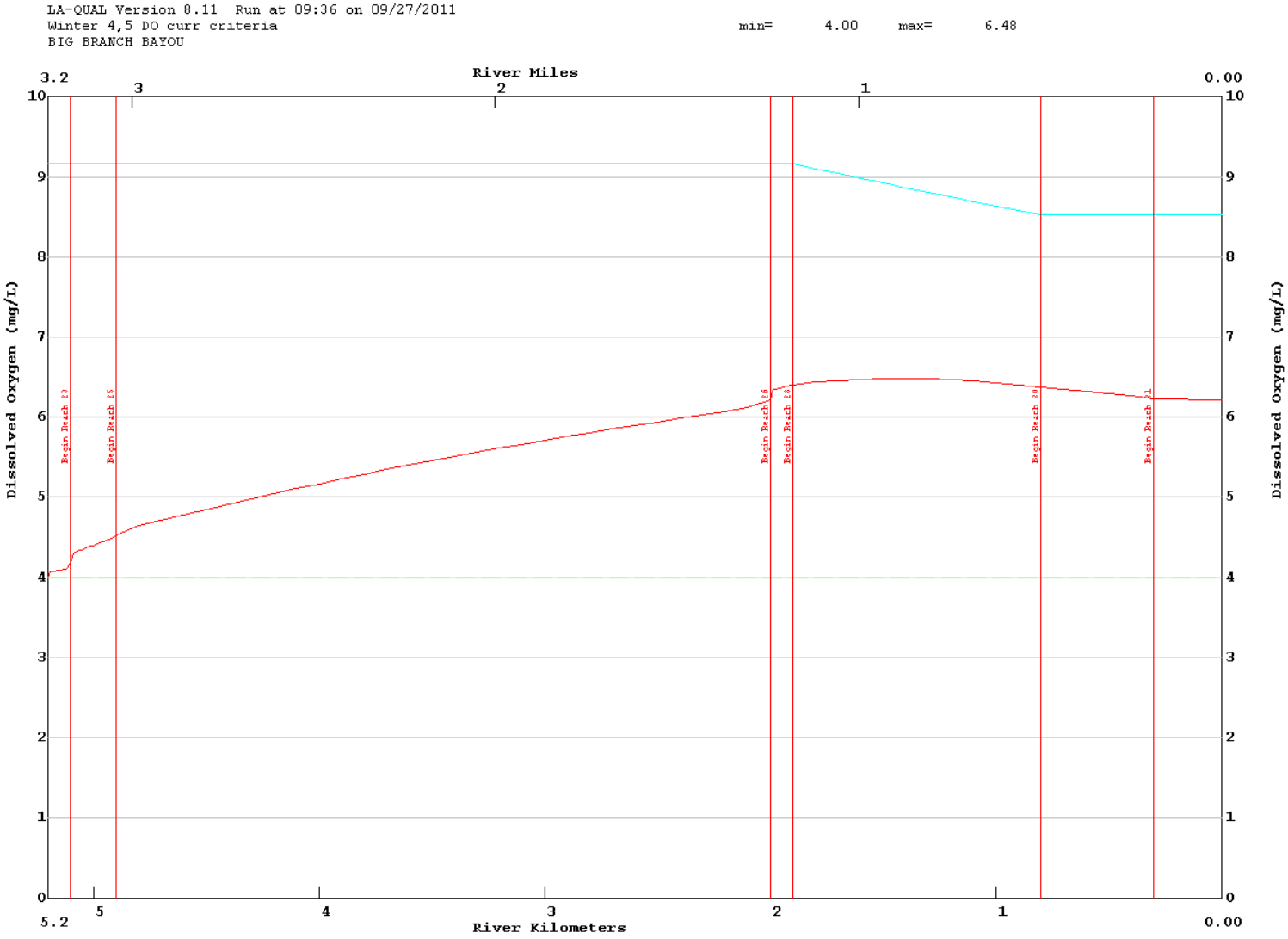
DATA TYPE 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN					
Wasteload / Withdrawal Name	**Element #**	**DO, mg/l**	**UCBOD1, mg/l**	**UNBOD, mg/l**	**Data Source**
AI 138040, Animal Services Campus - St. Tammany Parish Government	12	2	69	64.5	Permit limit required to meet criterion.
AI 120304, St Tammany Speedway	40	2	103.5	64.5	Permit limit required to meet criterion.
AI 94746, Southern Natural Gas Co - Lacombe Compressor Station	169	2	103.5	64.5	Permit limit required to meet criterion.
AI 155402, Axonic, LLC, Neurology Clinic	196	2	103.5	64.5	Permit limit required to meet criterion.
Cluster 1 Hwy. 434/I-12 ditch BL (AIs 122894, 149786, 41574, 116987, 94618, 118350, 86020, 43188, 102362)	206	2	103.5	64.5	Permit limit required to meet criterion.
Cluster 2 Hwy. 434/I-12 ditch BL (AIs 151676, 128325, 52076)	208	2	69	64.5	Permit limit required to meet criterion.
Unnamed Tributary	223	4.24	3.887	0.137	UNT01
AI 119164, St Tammany Parish Government - Keller Barn	241	2	23	21.5	Permit limit required to meet criterion.
AI 157591, Carmelite Spirituality Center - Sisters of Mt Carmel	272	2	23	21.5	Permit limit required to meet criterion.
AI 33916, WTSO Utilities, Beau Village Subdivision	277	2	11.5	8.6	Permit limit required to meet criterion.
AI 93344, US Fish & Wildlife Service - Southeast Louisiana Refuges	325	2	23	21.5	Permit limit required to meet criterion.
AI 43023, Regina Coeli Child Development Center - Lacombe/Mandeville Head Start	342	2	46	43	Permit limit required to meet criterion.
AI 40796, Janie Brown's Casual Restaurant	344	2	46	43	Permit limit required to meet criterion.
Cluster 1 on Hwy. 190 ditch BL: AIs 157721, 154892	349	2	46	43	Permit limit required to meet criterion.
Cluster 2 on Hwy. 190 ditch BL: AIs 157850, 99609, 157435	350	2	46	43	Permit limit required to meet criterion.
Cluster 3 on Hwy. 190 ditch BL: AIs 89241, 84112, 43400	352	2	46	43	Permit limit required to meet criterion.
Cluster 4 on Hwy. 190 ditch BL: AIs 6470, 157670, 130003, 149801	353	2	46	43	Permit limit required to meet criterion.
AI 43406, Bayou Lacombe Middle School	354	2	23	21.5	Permit limit required to meet criterion.
Cluster 5 on Hwy. 190 ditch BL: AIs 42348, 142046, 157759, 157768, 155069, 75810, 75143, 157523	358	2	46	43	Permit limit required to meet criterion.
Cluster 6 on Hwy. 190 ditch BL: AIs 33986, 70935, 151841, 122511, 114927, 43087, 162031	360	2	46	43	Permit limit required to meet criterion.

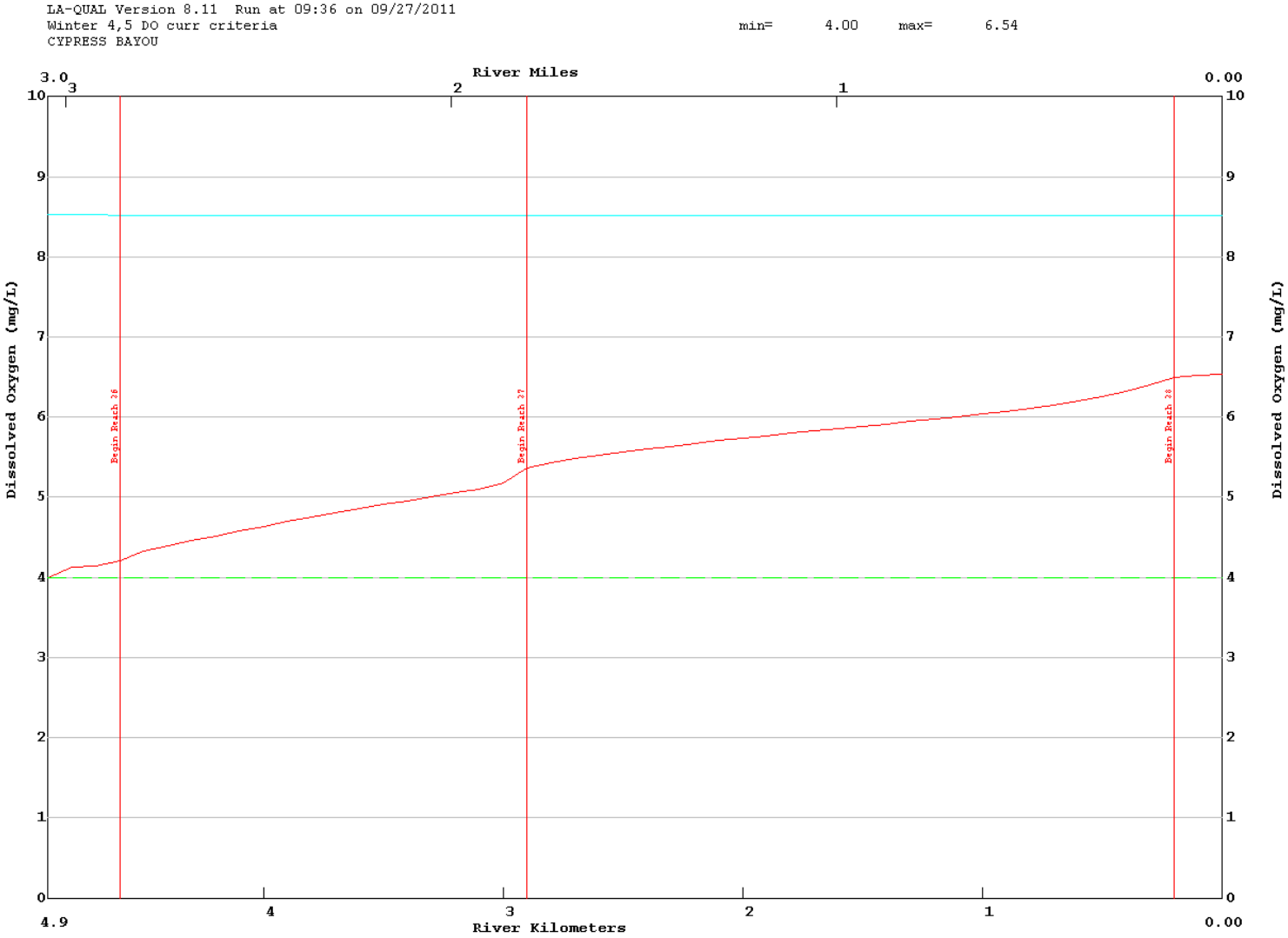
DATA TYPE 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN					
Wasteload / Withdrawal Name	**Element #**	**DO, mg/l**	**UCBOD1, mg/l**	**UNBOD, mg/l**	**Data Source**
AI 97944, Hwy 434 Mini Storage Inc	374	2	46	43	Permit limit required to meet criterion.
AI 157861, Kingdom Hall of Jehovah's Witnesses	390	2	46	43	Permit limit required to meet criterion.
AI 119750, Highway 434 Retail Space	391	2	46	43	Permit limit required to meet criterion.
AI 165334, H2O Systems, Inc., St. Tammany Parish Coroner's Complex	442	2	23	8.6	Permit limit required to meet criterion.
AI 94173, Southeastern Louisiana Water & Sewer Co.,LLC, Medcath WWTP, LA Medical Center & Heart Hospital	464	2	11.5	8.6	Permit limit required to meet criterion.
AI 114220, Folger Coffee Co - Lacombe Distribution Center	522	2	23	8.6	Permit limit required to meet criterion.
AI 157509, Feather & Fin Ranch	565	2	23	8.6	Permit limit required to meet criterion.
AI 156133, Python Corporation - Office/Warehouse	596	2	23	8.6	Permit limit required to meet criterion.
AI 101375, OW Inc - Bayou Mini Storage	602	2	23	8.6	Permit limit required to meet criterion.
AI 31079, Brier Lake Utilities Inc - Brier Lake Estates	651	2	11.5	8.6	Permit limit required to meet criterion.
AI 156693, H2O Systems Inc - Cypress Park Subdivision	652	5	11.5	8.6	Permit limit required to meet criterion.
AI 127495, A to Z Preschool LLC	654	2	23	8.6	Permit limit required to meet criterion.
AI 123821, Kevin J. Smith Construction Company - Smith Office Building	655	2	23	8.6	Permit limit required to meet criterion.
AI 157767, St Tammany Fire Protection District 3 - Fire Station 32	660	2	23	8.6	Permit limit required to meet criterion.
AI 157892, Mottie McClary/Southern Motor Carrier Safety Consultants	661	2	23	8.6	Permit limit required to meet criterion.
AI 119584, Tiller of the Land	663	2	23	8.6	Permit limit required to meet criterion.
AI 41881, ICO Corp	674	2	23	8.6	Permit limit required to meet criterion.
AI 117076, LA Pines Ranch Inc	677	2	23	8.6	Permit limit required to meet criterion.

DATA TYPE 27 - LOWER BOUNDARY CONDITIONS Survey Site Name:			
Parameter	**Value**	**Units**	**Data Source**
TEMPERATURE	30.8	deg C	90th percentile temperature from water quality network site 1047.
SALINITY	7.02	ppt	LP01 - CONT MONITOR
CONSERVATIVE MATERIAL I (chloride)	4128	mg/l	LP01 - LAB DATA
CONSERVATIVE MATERIAL II (conductivity)	12216	umhos/cm	LP01 - CONT MONITOR
DISSOLVED OXYGEN	7.14	mg/l	LP01 - CONT MONITOR
BIOCHEMICAL OXYGEN DEMAND 1	5.012	mg/l	LP01 - LAB DATA
CHLOROPHYLL A	8.3	ug/l	LP01 - LAB DATA
NBOD	1.166	mg/l	LP01 - LAB DATA

Appendix D3 –Winter Output Graphs and Input, Overlay, and Output Files


LA-QUAL Version 8.11 Run at 09:36 on 09/27/2011
Winter 4,5 DO curr criteria
BAYOU LACOMBE
min= 5.00 max= 8.33
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Dissolved Oxygen (mg/L)
BEGIN REACH 4
BEGIN REACH 5
Begin Reach 7
Begin Reach 9
BEGIN REACH 10
Begin Reach 12
Begin Reach 14
BEGIN REACH 15
BEGIN REACH 28
BEGIN REACH 29
Begin Reach 30
Begin Reach 41
31.0
30
25
20
15
10
5
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 09:36 on 09/27/2011
Winter 4,5 DO curr criteria
BIG BRANCH BAYOU
min= 4.00 max= 6.48
River Miles
3.2
3
2
1
0.00
Dissolved Oxygen (mg/L)
Begin Reach 22
Begin Reach 25
Begin Reach 26
Begin Reach 28
Begin Reach 30
Begin Reach 31
5.2
5
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 09:36 on 09/27/2011
Winter 4,5 DO curr criteria
CYPRESS BAYOU
min= 4.00 max= 6.54
River Miles
3.0
3
2
1
0.00
Dissolved Oxygen (mg/L)
Begin Reach 36
Begin Reach 37
Begin Reach 38
4.9
4
3
2
1
0.00
River Kilometers

BAYOU LACOMBE WINTER PROJECTION INPUT DATA SET

```
TITLE01      BAYOU LACOMBE WATERSHED MODEL
TITLE02      Winter 4,5 DO curr criteria
CONTROL  YES METRIC UNITS
ENDATA01
MODOPT    NO TEMPERATURE
MODOPT   YES SALINITY
MODOPT   YES CONSERVATIVE MATERIAL  I = CHLORIDE                 IN  mg/L     chloride
MODOPT   YES CONSERVATIVE MATERIAL II = CONDUCTIVITY             IN  uS/cm    conduct
MODOPT   YES DISSOLVED OXYGEN
MODOPT   YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT    NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT   YES NBOD OXYGEN DEMAND
MODOPT    NO PHOSPHORUS
MODOPT    NO CHLOROPHYLL A
MODOPT    NO MACROPHYTES
MODOPT    NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  DISPERSION EQUATION               =     1
PROGRAM  OCEAN EXCHANGE RATIO              =     1.0
PROGRAM  TIDE HEIGHT                       =     0.152
PROGRAM  TIDAL PERIOD                      =     25.0
PROGRAM  PERIOD OF TIDAL RISE              =     12.5
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =      2.0
PROGRAM  SETTLING RATE UNITS               =      2.0
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
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!	R#	ID	REACH NAME	RKM	RKM	LENGTH
REACH ID	1	BL	BL01 TO Hwy 36 Ditch BL	31.0	30.9	0.01
REACH ID	2	D1	Hwy 36 Ditch BL	4.2	0.0	0.1
REACH ID	3	BL	Hwy 36 Ditch BL to BL02	30.9	25.2	0.1
REACH ID	4	BL	BL02 to BL03	25.2	20.3	0.1
REACH ID	5	BL	BL03 to SNG Ditch	20.3	19.4	0.1
REACH ID	6	D2	SNG Ditch	2.1	0.0	0.1
REACH ID	7	BL	SNG Ditch to Hwy434/I-12 Dich BL	19.4	19.1	0.1
REACH ID	8	D3	Hwy 434/I-12 Ditch BL	3.0	0.0	0.1
REACH ID	9	BL	Hwy434/I-12DitchBL to BL04	19.1	18.9	0.1
REACH ID	10	BL	BL04 to Keller Barn Ditch	18.9	17.3	0.1
REACH ID	11	D4	Keller Barn Ditch	0.9	0.0	0.1
REACH ID	12	BL	KellerBarnDitchToBeauVillageDich	17.3	14.6	0.1
REACH ID	13	D5	Beau Village Ditch	3.0	0.0	0.1
REACH ID	14	BL	Beau Village Ditch to BL05	14.6	13.2	0.1
REACH ID	15	BL	BL05 to Hwy 190 Ditch BL	13.2	11.1	0.1
REACH ID	16	D6	Hwy 190 Ditch BL	2.2	0.0	0.1
REACH ID	17	BL	Hwy190DitchBLtoHwy434/190DitchBL	11.1	11.0	0.01
REACH ID	18	D7	Hwy 434/190 Ditch BL	2.2	0.0	0.1
REACH ID	19	BL	Hwy 434/190 Ditch BL to BL06	11.0	10.9	0.01
REACH ID	20	BL	BL06 to confluence with BBB	10.9	8.8	0.1
REACH ID	21	BB	BB03 to Hwy 434/I-12 ditch BBB	5.2	5.1	0.01
REACH ID	22	D8	Hwy 434/I-12 Ditch BBB	6.5	0.0	0.1
REACH ID	23	BB	Hwy434/I-12DitchBBBtoFolgerDitch	5.1	4.9	0.01
REACH ID	24	D9	Folger Ditch	0.4	0.0	0.1
REACH ID	25	BB	Folger Ditch to BB02	4.9	2.0	0.1
REACH ID	26	BB	BB02 to Berry Todd Rd Ditch	2.0	1.9	0.01
REACH ID	27	DA	Berry Todd Rd Ditch	2.0	0.0	0.1
REACH ID	28	BB	BerryToddRdDitchtoHwy190DitchBBB	1.9	0.8	0.1
REACH ID	29	DB	Hwy 190 Ditch BBB	1.3	0.0	0.1
REACH ID	30	BB	Hwy 190 Ditch BBB to BB01	0.8	0.3	0.1
REACH ID	31	BB	BB01toConfluenceWithBayouLacombe	0.3	0.0	0.1
REACH ID	32	BL	Big Branch Bayou to BL07	8.8	8.7	0.01
REACH ID	33	BL	BL07to confluence w/CypressBayou	8.7	6.3	0.1
REACH ID	34	CB	CB03 to Hwy 190 ditch CB	4.9	4.6	0.1
REACH ID	35	DC	Hwy 190 Ditch CB	1.6	0.0	0.1
REACH ID	36	CB	Hwy 190 Ditch CB to CB02	4.6	2.9	0.1
REACH ID	37	CB	CB02 to CB01	2.9	0.2	0.1
REACH ID	38	CB	CB01to confluence w/BayouLacombe	0.2	0.0	0.1
REACH ID	39	BL	Cypress Bayou to BL08	6.3	6.1	0.1
REACH ID	40	BL	BL08 to BL09	6.1	0.3	0.1
REACH ID	41	BL	BL09 to Lake Pontchartrain	0.3	0.0	0.1

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ENDATA08
!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!              WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#  COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1    0.0     0.0   5.79    0.0    0.0  0.40        0   0.02
HYDR-1      2    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      3    0.0     0.0   5.79    0.0    0.0  0.40        0   0.02
HYDR-1      4    0.0     0.0   6.10    0.0    0.0  0.18        0   0.02
HYDR-1      5    0.0     0.0   7.16    0.0    0.0  0.17        0   0.02
HYDR-1      6    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      7    0.0     0.0   7.16    0.0    0.0  0.17        0   0.02
HYDR-1      8    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      9    0.0     0.0   7.16    0.0    0.0  0.17        0   0.02
HYDR-1     10    0.0     0.0   9.30    0.0    0.0  0.42        0   0.02
HYDR-1     11    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     12    0.0     0.0   9.30    0.0    0.0  0.42        0   0.02
HYDR-1     13    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     14    0.0     0.0   9.30    0.0    0.0  0.42        0   0.02
HYDR-1     15    0.0     0.0  25.30    0.0    0.0  3.60        0   0.02
HYDR-1     16    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     17    0.0     0.0  25.30    0.0    0.0  3.60        0   0.02
HYDR-1     18    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     19    0.0     0.0  25.30    0.0    0.0  3.60        0   0.02
HYDR-1     20    0.0     0.0  44.20    0.0    0.0  3.15        0   0.02
HYDR-1     21    0.0     0.0   3.66    0.0    0.0  0.39        0   0.02
HYDR-1     22    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     23    0.0     0.0   3.66    0.0    0.0  0.39        0   0.02
HYDR-1     24    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     25    0.0     0.0   3.66    0.0    0.0  0.39        0   0.02
HYDR-1     26    0.0     0.0  15.24    0.0    0.0  1.12        0   0.02
HYDR-1     27    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     28    0.0     0.0  15.24    0.0    0.0  1.12        0   0.02
HYDR-1     29    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     30    0.0     0.0  15.24    0.0    0.0  1.12        0   0.02
HYDR-1     31    0.0     0.0  39.62    0.0    0.0  2.13        0   0.02
HYDR-1     32    0.0     0.0  82.30    0.0    0.0  2.56        0   0.02
HYDR-1     33    0.0     0.0  82.30    0.0    0.0  2.56        0   0.02
HYDR-1     34    0.0     0.0   4.69    0.0    0.0  0.29        0   0.02
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HYDR-1      35     0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      36     0.0     0.0   4.69    0.0    0.0  0.29        0   0.02
HYDR-1      37     0.0     0.0  14.02    0.0    0.0  1.39        0   0.02
HYDR-1      38     0.0     0.0  35.36    0.0    0.0  2.73        0   0.02
HYDR-1      39     0.0     0.0  74.68    0.0    0.0  3.03        0   0.02
HYDR-1      40     0.0     0.0  74.68    0.0    0.0  3.03        0   0.02
HYDR-1      41     0.0     0.0  99.36    0.0    0.0  1.80        0   0.02
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!          R#  RANGE    a          b         c         d
!         ***  -----**********----------**********----------
HYDR-2       1  0.00 0.5        0.000     0.0       0.0
HYDR-2       2  0.00   0        0.000     0.0       0.0
HYDR-2       3  0.00 0.5        0.000     0.0       0.0
HYDR-2       4  0.00 0.5        0.000     0.0       0.0
HYDR-2       5  0.00 0.5        0.000     0.0       0.0
HYDR-2       6  0.00    0       0.000     0.0       0.0
HYDR-2       7  0.00 0.5        0.000     0.0       0.0
HYDR-2       8  0.00   0        0.000     0.0       0.0
HYDR-2       9  0.00 0.5        0.000     0.0       0.0
HYDR-2      10  0.25 0.5        0.000     0.0       0.0
HYDR-2      11  0.00    0       0.000     0.0       0.0
HYDR-2      12  0.25 0.5        0.000     0.0       0.0
HYDR-2      13  0.00   0        0.000     0.0       0.0
HYDR-2      14  0.50 0.5        0.000     0.0       0.0
HYDR-2      15  0.75 0.5        0.000     0.0       0.0
HYDR-2      16  0.00   0        0.000     0.0       0.0
HYDR-2      17  0.75 0.5        0.000     0.0       0.0
HYDR-2      18  0.00    0       0.000     0.0       0.0
HYDR-2      19  0.75 0.5        0.000     0.0       0.0
HYDR-2      20  1.00 2          0.000     0.0       0.0
HYDR-2      21  0.25 0.5        0.000     0.0       0.0
HYDR-2      22  0.00    0       0.000     0.0       0.0
HYDR-2      23  0.50 1.0        0.000     0.0       0.0
HYDR-2      24  0.00    0       0.000     0.0       0.0
HYDR-2      25  0.75 2.0        0.000     0.0       0.0
HYDR-2      26  1.00 2.5        0.000     0.0       0.0
HYDR-2      27  0.00    0       0.000     0.0       0.0
HYDR-2      28  1.00 3.5        0.000     0.0       0.0
HYDR-2      29  0.00    0       0.000     0.0       0.0
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HYDR-2     30  1.00 5.5        0.000     0.0       0.0
HYDR-2     31  1.00 7.5        0.000     0.0       0.0
HYDR-2     32  1.00 3          0.000     0.0       0.0
HYDR-2     33  1.00 4          0.000     0.0       0.0
HYDR-2     34  0.50 1          0.000     0.0       0.0
HYDR-2     35  0.00    0       0.000     0.0       0.0
HYDR-2     36  0.75 3.5        0.000     0.0       0.0
HYDR-2     37  1.00 5.5        0.000     0.0       0.0
HYDR-2     38  1.00 7.5        0.000     0.0       0.0
HYDR-2     39  1.00 5          0.000     0.0       0.0
HYDR-2     40  1.00 6          0.000     0.0       0.0
HYDR-2     41  1.00 7.5        0.000     0.0       0.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1     19.60    0.01   5.00    0.00    0.000   0.00    0.0     0.0
INITIAL     2     19.60    0.01   5.00    0.000   0.000   0.00    0.0     0.0
INITIAL     3     19.60    0.01   5.00    0.000   0.000   0.00    0.0     0.0
INITIAL     4     19.60    0.00   5.00    0.000   0.000   0.00    0.0     0.0
INITIAL     5     19.60    0.00   5.00    0.000   0.000   0.00   0000     0.0
INITIAL     6     19.60    0.00   5.00    0.000   0.000   0.000  0000     0.0
INITIAL     7     19.60    0.00   5.00    0.000   0.000   0.000   000     0.0
INITIAL     8     19.60    0.00   5.00    0.000   0.000   0.000  0000     0.0
INITIAL     9     19.60    0000   5.00    0.000   0.000   0.000  0000     0.0
INITIAL    10     19.60    0.02   5.00    0.000   0.000   0.000  0000     0.0
INITIAL    11     19.60    0.02   5.00    0.000   0.000   0.000  0000     0.0
INITIAL    12     19.60    0.02   5.00    0.000   0.000   0.000  0000     0.0
INITIAL    13     19.60    0.02   5.00    0.00    0.000   0.00    0.0     0.0
INITIAL    14     19.60    0.02   5.00    0.000   0.000   0.00    0.0     0.0
INITIAL    15     19.60    0.36   5.00    0.000   0.000   0.00   10.0     0.0
INITIAL    16     19.60    0.36   4.00    0.000   0.000   0.00    0.0     0.0
INITIAL    17     19.60    0.36   4.00    0.000   0.000   0.00   10.0     0.0
INITIAL    18     19.60    0.36   4.00    0.000   0.000   0.000  0000     0.0
INITIAL    19     23.30    0.36   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    20     23.30    4.78   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    21     19.60    0000   4.00    0.000   0.000   0.000  2.60     0.0
INITIAL    22     19.60    0.00   4.00    0.000   0.000   0.000  0000     0.0
INITIAL    23     19.60    0000   4.00    0.000   0.000   0.000  2.60     0.0
INITIAL    24     19.60    0.00   4.00    0.000   0.000   0.000  0000     0.0
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INITIAL    25     19.60    0.00   4.00    0.000   0.000   0.000  2.60     0.0
INITIAL    26     19.60    0.35   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    27     19.60    0.35   4.00    0.000   0.000   0.000  0000     0.0
INITIAL    28     19.60    0.35   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    29     19.60    0.35   4.00    0.000   0.000   0.000  0000     0.0
INITIAL    30     23.30    0.35   4.00    0.00    0.000   0.00   10.0     0.0
INITIAL    31     23.30    4.19   4.00    0.000   0.000   0.00   10.0     0.0
INITIAL    32     23.30    4.08   4.00    0.000   0.000   0.00   10.0     0.0
INITIAL    33     23.30    4.08   4.00    0.000   0.000   0.00   10.0     0.0
INITIAL    34     23.30    0.14   4.00    0.000   0.000   0.00   10.0     0.0
INITIAL    35     23.30    0.14   4.00    0.000   0.000   0.000  0000     0.0
INITIAL    36     23.30    0.14   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    37     23.30    3.82   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    38     23.30    5.34   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    39     23.30    5.26   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    40     23.30    5.26   4.00    0.000   0.000   0.000  10.0     0.0
INITIAL    41     23.30    7.05   4.00    0.000   0.000   0.000  10.0     0.0
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9----
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234
!         ***  -----********** ******-------*******-------*******-------*******-------*******
!               REA                            BOD 1  BOD 1   BOD 1       BOD 2    BOD 2  BOD 2
!          R#   EQ   "a"                  SOD  DECAY  SETT    CONV        DECAY    SETT   CONV
COEF-1      1   11.0  0.00 0.0   0.0     0.00  .034  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      2   15.0  0.00 0.0   0.0    0.625  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      3   11.0  0.00 0.0   0.0    0.313  .034  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      4   11.0  0.00 0.0   0.0    0.313  .031  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      5   11.0  0.00 0.0   0.0    2.188  .038  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      6   15.0  0.00 0.0   0.0    0.625  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      7   11.0  0.00 0.0   0.0    2.188  .038  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      8   15.0  0.00 0.0   0.0    0.625  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      9   11.0  0.00 0.0   0.0    2.188  .038  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     10   11.0  0.00 0.0   0.0    1.688  .029  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     11   15.0  0.00 0.0   0.0    0.188  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     12   11.0  0.00 0.0   0.0    1.688  .029  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     13   15.0  0.00 0.0   0.0    0.188  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     14   11.0  0.00 0.0   0.0    1.688  .029  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     15    3.0  0.00 0.0   0.0    1.125  .045  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     16   15.0  0.00 0.0   0.0    0.375  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     17    3.0  0.00 0.0   0.0    2.250  .045  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     18   15.0  0.00 0.0   0.0    0.375  .080  0.05    0.0     0.00 .000    0.00    0.0
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COEF-1      19    3.0  0.00 0.0   0.0    2.250  .045  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      20    3.0  0.00 0.0   0.0    2.625  .041  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      21   11.0  0.00 0.0   0.0     0.50  .070  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      22   15.0  0.00 0.0   0.0    0.125  .08   0.05    0.0     0.00 .000    0.00    0.0
COEF-1      23   11.0  0.00 0.0   0.0    0.500  .070  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      24   15.0  0.00 0.0   0.0    0.125  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      25   11.0  0.00 0.0   0.0    1.500  .070  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      26    3.0  0.00 0.0   0.0    1.750  .053  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      27   15.0  0.00 0.0   0.0    0.125  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      28    3.0  0.00 0.0   0.0    1.750  .053  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      29   15.0  0.00 0.0   0.0    0.125  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      30    3.0  0.00 0.0   0.0    1.750  .053  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      31    3.0  0.00 0.0   0.0    1.750  .049  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      32    3.0  0.00 0.0   0.0    4.375  .048  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      33    3.0  0.00 0.0   0.0     1.25  .048  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      34   11.0  0.00 0.0   0.0    1.500  .069  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      35   15.0  0.00 0.0   0.0    0.125  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      36   11.0  0.00 0.0   0.0    1.500  .069  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      37    3.0  0.00 0.0   0.0    1.500  .052  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      38    3.0  0.00 0.0   0.0     0.00  .054  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      39    3.0  0.00 0.0   0.0     1.25  .051  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      40    3.0  0.00 0.0   0.0    1.688  .051  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      41    3.0  0.00 0.0   0.0     0.00  .063  0.05    0.0     0.00 .000    0.00    0.0
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.005    0.05
COEF-2      2  0.030    0.05
COEF-2      3  0.005    0.05
COEF-2      4  0.595    0.05
COEF-2      5  0.041    0.05
COEF-2      6  0.030    0.05
COEF-2      7  0.041    0.05
COEF-2      8  0.030    0.05
COEF-2      9  0.041    0.05
COEF-2     10  0.070    0.05
COEF-2     11  0.030    0.05
COEF-2     12  0.070    0.05
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COEF-2      13  0.030    0.05
COEF-2      14  0.070    0.05
COEF-2      15  0.052    0.05
COEF-2      16  0.030    0.05
COEF-2      17  0.052    0.05
COEF-2      18  0.030    0.05
COEF-2      19  0.052    0.05
COEF-2      20  0.089    0.05
COEF-2      21  0.595    0.05
COEF-2      22  0.030    0.05
COEF-2      23  0.595    0.05
COEF-2      24  0.030    0.05
COEF-2      25  0.595    0.05
COEF-2      26  0.106    0.05
COEF-2      27  0.030    0.05
COEF-2      28  0.106    0.05
COEF-2      29  0.030    0.05
COEF-2      30  0.106    0.05
COEF-2      31  0.042    0.05
COEF-2      32  0.129    0.05
COEF-2      33  0.129    0.05
COEF-2      34  0.136    0.05
COEF-2      35  0.030    0.05
COEF-2      36  0.136    0.05
COEF-2      37  0.054    0.05
COEF-2      38  0.080    0.05
COEF-2      39  0.064    0.05
COEF-2      40  0.064    0.05
COEF-2      41  0.101    0.05
ENDATA13
ENDATA14
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------*********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
!
INCR-1      1    0.0     0.179959 20.85   0.01        5.60     51.6
INCR-1      2    0.0     0.000000 00000   0.00        0000     00.00
INCR-1      3    0.0     0.000000 00000   0.00        0000     00000
INCR-1      4    0.0     0.041881 21.28   0.00         5.5     56.00
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INCR-1       5    0.0      0.043261 22.03   0.00          5.7     58.04
INCR-1       6    0.0      0.0000   00.000  0.00          000     00000
INCR-1       7    0.0      0.000000 00000   0.00         0000     00000
INCR-1       8    0.0      0.0000   00.000  0.00          000     00000
INCR-1       9    0.0      0.0000   00.000  0.00          000     00000
INCR-1      10    0.0      0.000000 00000   0.00         0000     00000
INCR-1      11    0.0      0.0000   00.000  0.00          000     00000
INCR-1      12    0.0      0.0000   00.000  0.00          000     00000
INCR-1      13    0.0      0.000000 00000   0.00         0000     0000
INCR-1      14    0.0      0.000000 00000   0.00         0000     00000
INCR-1      15    0.0      0.000000 00000   0.00         0000     00000
INCR-1      16    0.0      0.0000   00.000  0.00          000     00000
INCR-1      17    0.0      0.0000   00.000  0.00          000     00000
INCR-1      18    0.0      0.0000   00.000  0.00          000     00000
INCR-1      19    0.0      0.000000 00000   0.00         0000     00000
INCR-1      20    0.0      0.0000   00.000  0.00          000     00000
INCR-1      21    0.0      0.147505 21.66   0.00          10.4    95.61
INCR-1      22    0.0      0.000000 00000   0.00         0000     00000
INCR-1      23    0.0      0.0000   00.000  0.00          000     00000
INCR-1      24    0.0      0.0000   00.000  0.00          000     00000
INCR-1      25    0.0      0.0000   00.000  0.00          000     00000
INCR-1      26    0.0      0.0000   00.000  0.00          000     00000
INCR-1      27    0.0      0.000000 00000   0.00         0000     00000
INCR-1      28    0.0      0.0000   00.000  0.00          000     00000
INCR-1      29    0.0      0.0000   00.000  0.00          000     00000
INCR-1      30    0.0      0.000000 00000   0.00         0000     0000
INCR-1      31    0.0      0.000000 00000   0.00         0000     00000
INCR-1      32    0.0      0.000000 00000   0.00         0000     00000
INCR-1      33    0.0      0.0000   00.000  0.00          000     00000
INCR-1      34    0.0      0.188823 23.25   0.14          22.5    286.9
INCR-1      35    0.0      0.0000   00.000  0.00          000     00000
INCR-1      36    0.0      0.000000 00000   0.00         0000     00000
INCR-1      37    0.0      0.0000   00.000  0.00          000     00000
INCR-1      38    0.0      0.0000   00.000  0.00          000     00000
INCR-1      39    0.0      0.000000 00000   0.00         0000     00000
INCR-1      40    0.0      0.0000   00.000  0.00          000     00000
INCR-1      41    0.0      0.0000   00.000  0.00          000     00000
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------*********
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!	R#	DO	BOD 1	NBOD	NH3 N	NIT NIT	BOD 2
INCR-2	1	5.00	1.91	0.00	0.0	0.00	0.000
INCR-2	2	0000	0.00	0.00	0.0	0.00	0.00
INCR-2	3	0000	0000	0.00	0.0	0.00	0.00
INCR-2	4	5.00	1.650	0.030	0.0	0.00	0.000
INCR-2	5	5.00	2.990	0.490	0.0	0.00	0.000
INCR-2	6	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	7	0000	0.00	0.00	0.0	0.00	0000
INCR-2	8	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	9	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	10	0000	00000	0000	0.0	0.00	0000
INCR-2	11	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	12	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	13	0000	0.00	0.00	0.0	0.00	0.00
INCR-2	14	0000	0.00	0.00	0.0	0.00	0.00
INCR-2	15	0000	0000	0.00	0.0	0.00	0.00
INCR-2	16	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	17	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	18	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	19	0000	0.00	0.00	0.0	0.00	0000
INCR-2	20	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	21	4.00	0.670	0.010	0.0	0.00	00000
INCR-2	22	0000	00000	0000	0.0	0.00	0000
INCR-2	23	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	24	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	25	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	26	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	27	0000	00000	0000	0.0	0.00	0000
INCR-2	28	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	29	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	30	0000	0.00	0.00	0.0	0.00	0.00
INCR-2	31	0000	0.00	0.00	0.0	0.00	0.00
INCR-2	32	0000	0000	0.00	0.0	0.00	0.00
INCR-2	33	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	34	4.00	4.10	0.64	0.0	0.00	0000
INCR-2	35	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	36	0000	0.00	0.00	0.0	0.00	0000
INCR-2	37	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	38	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	39	0000	00000	0000	0.0	0.00	0000
INCR-2	40	0.00	0.00	0.00	0.0	0.00	0.00
INCR-2	41	0.00	0.00	0.00	0.0	0.00	0.00

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ENDATA17
!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
!
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1        0.0   0.0000     0.00      0.0      0.0      0.0
NONPOINT    2      0.079   00.021     0.00     00.0      0.0      0.0
NONPOINT    3       00.0   0.0000     0.00      0.0      0.0      0.0
NONPOINT    4      31.25   6.2500     0.00     00.0      0.0    000.0
NONPOINT    5       00.0   00.000     0.00     00.0      0.0    000.0
NONPOINT    6      0.040   00.011     0.00    000.0      0.0     00.0
NONPOINT    7       00.0   00.000     0.00      0.0      0.0     00.0
NONPOINT    8      0.058   00.016     0.00     00.0      0.0     00.0
NONPOINT    9       00.0   00.000     0.00    000.0      0.0    000.0
NONPOINT   10      18.75    9.750     0.00     00.0      0.0     00.0
NONPOINT   11      0.005   0.0020     0.00      0.0      0.0      0.0
NONPOINT   12     31.875    9.750     0.00    000.0      0.0    000.0
NONPOINT   13      0.018   00.005     0.00      0.0      0.0      0.0
NONPOINT   14      18.75    9.750     0.00     00.0      0.0      0.0
NONPOINT   15      93.75    33.75     0.00      0.0      0.0      0.0
NONPOINT   16      0.026   00.008     0.00     00.0      0.0    000.0
NONPOINT   17       00.0   00.000     0.00     00.0      0.0    000.0
NONPOINT   18      0.026   00.008     0.00    000.0      0.0     00.0
NONPOINT   19       00.0   00.000     0.00      0.0      0.0     00.0
NONPOINT   20     112.50  00.0000     0.00     00.0      0.0     00.0
NONPOINT   21      0.000      000     0.00    000.0      0.0    000.0
NONPOINT   22      0.025    0.007     0.00     00.0      0.0    000.0
NONPOINT   23       00.0      000     0.00      0.0      0.0      0.0
NONPOINT   24      0.001    0.001     0.00    000.0      0.0    000.0
NONPOINT   25       6.25      000     0.00     00.0      0.0     00.0
NONPOINT   26      000.0      000     0.00    000.0      0.0    000.0
NONPOINT   27      0.008    0.002     0.00     00.0      0.0     00.0
NONPOINT   28      8.750      000     0.00      0.0      0.0      0.0
NONPOINT   29      0.005    0.002     0.00    000.0      0.0    000.0
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NONPOINT   30       8.75       00     0.00      0.0      0.0      0.0
NONPOINT   31     97.500       50     0.00     00.0      0.0      0.0
NONPOINT   32       00.0   0.0000     0.00      0.0      0.0      0.0
NONPOINT   33      250.0  000.000     0.00     00.0      0.0    000.0
NONPOINT   34      0.000   00.000     0.00     00.0      0.0    000.0
NONPOINT   35      0.006   00.002     0.00    000.0      0.0     00.0
NONPOINT   36     16.250   000.00     0.00      0.0      0.0     00.0
NONPOINT   37     37.500   000.00     0.00     00.0      0.0     00.0
NONPOINT   38     12.500   000.00     0.00    000.0      0.0    00000
NONPOINT   39       00.0    0.000     0.00     00.0      0.0     00.0
NONPOINT   40    1687.50   562.50    0.00      0.0      0.0      0.0
NONPOINT   41        250     0000     0.00    000.0      0.0    000.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  BAYOU LACOMBE            0.092    19.60  0.01       5.6   51.6
HDWTR-1    11  Ditch #1 Hwy 36 BL       0.0028   19.60  0.01       5.6   51.6
HDWTR-1   168  Ditch #2 SNG ditch       0.0028   19.60  0.01       5.6   51.6
HDWTR-1   192  Ditch#3Hwy434/I-12BL     0.0028   19.60  0.01       5.6   51.6
HDWTR-1   240  Ditch #4 Keller Barn     0.0028   19.60  0.01       5.6   51.6
HDWTR-1   276  Ditch#5 Beau Village     0.0028   19.60  0.01       5.6   51.6
HDWTR-1   341  Ditch #6 Hwy 190 BL      0.0028   19.60  0.01       5.6   51.6
HDWTR-1   373  Ditch#7 Hwy434/190BL     0.0028   19.60  0.01       5.6   51.6
HDWTR-1   426  Big Branch Bayou         0.009    19.60  0.00      10.4   95.61
HDWTR-1   436  Dich#8Hwy434/I-12BBB     0.0028   19.60  0.00      10.4   95.61
HDWTR-1   521  Ditch #9 Folger          0.0028   19.60  0.00      10.4   95.61
HDWTR-1   564  Ditch A BerryTodd Rd     0.0028   19.60  0.00      10.4   95.61
HDWTR-1   595  Ditch B Hwy 190 BBB      0.0028   19.60  0.00      10.4   95.61
HDWTR-1   650  Cypress Bayou            0.023    23.30  0.14      22.5   286.9
HDWTR-1   653  Ditch C Hwy 190 CB       0.0028   23.30  0.14      22.5   286.9
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD    NH3-N    NIT NIT  BOD 2
HDWTR-2     1      5.00     1.913    0.000   .00      .00      0.000
HDWTR-2    11      5.00     2.750    1.250   .00      .00      00000
HDWTR-2   168      5.00     2.750    1.250   .00      .00      00000
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HDWTR-2   192      5.00     2.75     1.250   .00      .00      0.000
HDWTR-2   240      5.00     0.825    0.375   .00      .00      00000
HDWTR-2   276      5.00     0.825    0.375   .00      .00      00000
HDWTR-2   341      4.00     1.65     0.750   .00      .00      0.000
HDWTR-2   373      4.00     1.650    0.750   .00      .00      00000
HDWTR-2   426      4.00     0.671    0.012   .00      .00      00000
HDWTR-2   436      4.00     0.55     0.250   .00      .00      0.000
HDWTR-2   521      4.00     0.550    0.250   .00      .00      00000
HDWTR-2   564      4.00     0.550    0.250   .00      .00      00000
HDWTR-2   595      4.00     0.55     0.250   .00      .00      0.000
HDWTR-2   650      4.00     4.096    0.638   .00      .00      00000
HDWTR-2   653      4.00     0.550    0.250   .00      .00      00000
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
ENDATA22
!         DS   US
JUNCTION  53   10   Hwy 36 ditch BL confluence with Bayou Lacombe
JUNCTION  189  167  Ditch #2-SNG Ditch confluence with Bayou Lacombe
JUNCTION  222  191  Ditch #3-Hwy 434/I-12 Ditch BL confluence with Bayou Lacombe
JUNCTION  249  239  Ditch #4-Keller Barn Ditch confluence with Bayou Lacombe
JUNCTION  306  275  Ditch #5-Beau Village Ditch confluence with Bayou Lacombe
JUNCTION  363  340  Ditch #6-Hwy 190 Ditch BL confluence with Bayou Lacombe
JUNCTION  395  372  Ditch #7-Hwy 434/190 Ditch BL confluence with Bayou Lacombe
JUNCTION  501  435  Ditch #8-Hwy 434/I-12 Ditch BBB confluence w/Big BranchBayou
JUNCTION  525  520  Ditch #9-Folger Ditch confluence with Big Branch Bayou
JUNCTION  584  563  Ditch A-Berry Todd Rd Ditch confluence with Big Branch Bayou
JUNCTION  608  594  Ditch B-Hwy 190 Ditch BBB confluence with Big Branch Bayou
JUNCTION  616  425  Big Branch Bayou confluence with Bayou Lacombe
JUNCTION  669  652  Ditch C-Hwy 190 Ditch CB confluence with Cypress Bayou
JUNCTION  715  649  Cypress Bayou confluence with Bayou Lacombe
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------------------********---------********---------********
!          E#     NAME                FLOW      TEMP   SALINITY CHLORIDE  COND
WSTLD-1    12  AI 138040 Animal Se 0.0002191   30.60    0.37     57.9    719.7
WSTLD-1    40  AI 120304 St Tamman 0.0001315   30.60    0.37     57.9    719.7
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WSTLD-1   169  AI 94746 Southern N 0.0001369   30.60    0.37     57.9    719.7
WSTLD-1   196  AI 155402 Axonic Ne 0.0000548   30.60    0.37     57.9    719.7
WSTLD-1   206  Cluster1Hwy434I12BL 0.0002788   30.60    0.37     57.9    719.7
WSTLD-1   208  Cluster2Hwy434I12BL 0.0005728   30.60    0.37     57.9    719.7
WSTLD-1   223  Unnamed Tributary   0.004389    21.85    0.02      7.4     62.6
WSTLD-1   241  AI 119164 St Tamman 0.0000076   30.60    0.37     57.9    719.7
WSTLD-1   272  AI 157591 Carmelite 0.0000274   30.60    0.37     57.9    719.7
WSTLD-1   277  AI 33916 WTSO Beau  0.0013144   30.60    0.37     57.9    719.7
WSTLD-1   325  AI 93344 US Fish &  0.0000614   30.60    0.37     57.9    719.7
WSTLD-1   342  AI 43023 Regina Coe 0.0001068   30.60    0.37     57.9    719.7
WSTLD-1   344  AI 40796 Janie Brow 0.0000959   30.60    0.37     57.9    719.7
WSTLD-1   349  Cluster 1 Hwy190 BL 0.0000208   30.60    0.37     57.9    719.7
WSTLD-1   350  Cluster 2 Hwy190 BL 0.0004244   30.60    0.37     57.9    719.7
WSTLD-1   352  Cluster 3 Hwy190 BL 0.0008040   30.60    0.37     57.9    719.7
WSTLD-1   353  Cluster 4 Hwy190 BL 0.0000488   30.60    0.37     57.9    719.7
WSTLD-1   354  AI 43406 Bayou Laco 0.0002519   30.60    0.37     57.9    719.7
WSTLD-1   358  Cluster 5 Hwy190 BL 0.0001758   30.60    0.37     57.9    719.7
WSTLD-1   360  Cluster 6 Hwy190 BL 0.0012046   30.60    0.37     57.9    719.7
WSTLD-1   374  AI 97944 Hwy 34 Min 0.0000011   30.60    0.37     57.9    719.7
WSTLD-1   390  AI 157861 Kingdom H 0.0000411   30.60    0.37     57.9    719.7
WSTLD-1   391  AI 119750 Highway 4 0.0000120   30.60    0.37     57.9    719.7
WSTLD-1   442  AI 165334 H2O Syste 0.0000384   30.60    0.37     57.9    719.7
WSTLD-1   464  AI 94173 Southeaste 0.0032860   30.60    0.37     57.9    719.7
WSTLD-1   522  AI 114220 Folger Co 0.0002191   30.60    0.37     57.9    719.7
WSTLD-1   565  AI 157509 Feather & 0.0030669   30.60    0.37     57.9    719.7
WSTLD-1   596  AI 156133 Python Co 0.0000066   30.60    0.37     57.9    719.7
WSTLD-1   602  AI 101375 OW Bayou  0.0000011   30.60    0.37     57.9    719.7
WSTLD-1   651  AI 31079 Brier Lake 0.0021906   23.06    0.26     23.5    516.3
WSTLD-1   652  AI 156693 H2O Syste 0.0065719   30.60    0.37     57.9    719.7
WSTLD-1   654  AI 127495 A to Z Pr 0.0000931   30.60    0.37     57.9    719.7
WSTLD-1   655  AI 123821 Kevin J S 0.0000110   30.60    0.37     57.9    719.7
WSTLD-1   660  AI 157767 St Tamman 0.0000011   30.60    0.37     57.9    719.7
WSTLD-1   661  AI 157892 Mottie Mc 0.0000023   30.60    0.37     57.9    719.7
WSTLD-1   663  AI 119584 Tiller of 0.0000055   30.60    0.37     57.9    719.7
WSTLD-1   674  AI 41881 ICO Corp   0.0000044   30.60    0.37     57.9    719.7
WSTLD-1   677  AI 117076 LA Pines  0.0002738   30.60    0.37     57.9    719.7
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------*********----------*********----------*****---------*********
!          E#      DO      BOD 1         NBOD    NH3-N        NIT NIT   BOD 2
```

```
WSTLD-2    12     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2    40     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   169     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   196     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   206     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   208     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   223     4.24      3.887  0.0   0.137    0.00    0.0   0.00     00000
WSTLD-2   241     2.00       23.0  0.0    21.5    0.00    0.0   0.00     00000
WSTLD-2   272     2.00       23.0  0.0    21.5    0.00    0.0   0.00     00000
WSTLD-2   277     2.00       11.5  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   325     2.00       23.0  0.0    21.5    0.00    0.0   0.00     00000
WSTLD-2   342     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   344     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   349     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   350     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   352     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   353     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   354     2.00       23.0  0.0    21.5    0.00    0.0   0.00     00000
WSTLD-2   358     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   360     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   374     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   390     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   391     2.00       46.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   442     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   464     2.00       11.5  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   522     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   565     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   596     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   602     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   651     2.00       11.5  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   652     5.00       11.5  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   654     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   655     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   660     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   661     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   663     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   674     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
WSTLD-2   677     2.00       23.0  0.0     8.6    0.00    0.0   0.00     00000
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345789012345678901234567890123456789
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!        ****  ---------********---------********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
ENDATA26
LOWER BC TEMPERATURE                        =  23.30
LOWER BC SALINITY                           =   7.02
LOWER BC CONSERVATIVE MATERIAL I (chloride) =   4128
LOWER BC CONSERVATIVE MATERIAL II (conduct) =  12216
LOWER BC DISSOLVED OXYGEN                   =   7.14
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =   5.012
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =   00000
LOWER BC CHLOROPHYLL A                      =   8.3
LOWER BC NBOD                               =   1.166
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ******************** ** ******** ******** ********
ENDATA28
SENSITIV BASEFLOW   30    -30
SENSITIV VELOCITY   30    -30
SENSITIV DEPTH      30    -30
SENSITIV DISPERSI   30    -30
SENSITIV REAERATI   30    -30
SENSITIV BOD DECA   30    -30
SENSITIV BOD SETT   30    -30
SENSITIV BOD2 DEC   30    -30
SENSITIV BOD2 SET   30    -30
SENSITIV TRANGE     30    -30
SENSITIV NBOD DEC   30    -30
SENSITIV NBOD SET   30    -30
SENSITIV BENTHAL    30    -30
SENSITIV TEMPERAT    2     -2
SENSITIV SALINITY   30    -30
SENSITIV CHLOR A    30    -30
SENSITIV INC INFL   30    -30
SENSITIV INC TEMP   30    -30
SENSITIV INC DO     30    -30
SENSITIV INC BOD    30    -30
SENSITIV INC BOD2   30    -30
SENSITIV INC NBOD   30    -30
SENSITIV HDW FLOW   30    -30
SENSITIV HDW TEMP   30    -30
```

```
SENSITIV HDW DO     30    -30
SENSITIV HDW BOD    30    -30
SENSITIV HDW BOD2   30    -30
SENSITIV HDW NBOD   30    -30
SENSITIV WSL FLOW   30    -30
SENSITIV WSL TEMP    2     -2
SENSITIV WSL DO     30    -30
SENSITIV WSL BOD    30    -30
SENSITIV WSL BOD2   30    -30
SENSITIV WSL NBOD   30    -30
SENSITIV OXR        30    -30
SENSITIV LBC TEMP    2     -2
SENSITIV LBC DO     30    -30
SENSITIV LBC BOD    30    -30
SENSITIV LBC BOD2   30    -30
SENSITIV LBC CHLO   30    -30
SENSITIV LBC NBOD   30    -30
SENSITIV NPS BOD    30    -30
SENSITIV NPS BOD2   30    -30
SENSITIV NPS NBOD   30    -30
ENDATA29
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
NUMBER OF PLOTS = 8
NUMBER OF REACHES IN PLOT 1 =  18
PLOT RCH 1  3  4  5  7  9  10 12 14 15 17 19 20 32 33 39 40 41
NUMBER OF REACHES IN PLOT 2 =   7
PLOT RCH 21 23 25 26 28 30 31
NUMBER OF REACHES IN PLOT 3 =   4
PLOT RCH 34 36 37 38
NUMBER OF REACHES IN PLOT 4 =   1
PLOT RCH 22
NUMBER OF REACHES IN PLOT 5 =   1
PLOT RCH 24
NUMBER OF REACHES IN PLOT 6 =   1
PLOT RCH 27
NUMBER OF REACHES IN PLOT 7 =   1
PLOT RCH 29
NUMBER OF REACHES IN PLOT 8 =   1
PLOT RCH 35
!--------1---------2---------3---------4---------5---------6---------7---------8
```

```
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
ENDATA30
OVERLAY 1 OVLBL.txt                        BAYOU LACOMBE
OVERLAY 2 OVLBBB.txt                       BIG BRANCH BAYOU
OVERLAY 3 OVLCB.txt                        CYPRESS BAYOU
OVERLAY 4 ovld8rch22.txt                   Hwy 434/I-12 ditch on BBB (D8, Rch 22)
OVERLAY 5 ovld9rch24.txt                   Folger ditch on BBB (D9, Rch 24)
OVERLAY 6 ovldarch27.txt                   Berry Todd Rd ditch on BBB (DA, Rch 27)
OVERLAY 7 ovldbrch29.txt                   Hwy 190 ditch on BBB (DB, Rch 29)
OVERLAY 8 ovldcrch35.txt                   Hwy 190 ditch on CB (DC, Rch 35)
ENDATA31
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
!NUMBER OF PLOTS = 7
!NUMBER OF REACHES IN PLOT 1 =   1
!PLOT RCH 2
!NUMBER OF REACHES IN PLOT 2 =   1
!PLOT RCH 6
!NUMBER OF REACHES IN PLOT 3 =   1
!PLOT RCH 8
!NUMBER OF REACHES IN PLOT 4 =   1
!PLOT RCH 11
!NUMBER OF REACHES IN PLOT 5 =   1
!PLOT RCH 13
!NUMBER OF REACHES IN PLOT 6 =   1
!PLOT RCH 16
!NUMBER OF REACHES IN PLOT 7 =   1
!PLOT RCH 18
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
!ENDATA30
!OVERLAY 1 ovld1rch2.txt                    Hwy 36 ditch on BL (D1, Rch 2)
!OVERLAY 2 ovld2rch6.txt                    SNG ditch on BL (D2, Rch 6)
!OVERLAY 3 ovld3rch8.txt                    Hwy 434/I-12 ditch on BL (D3, Rch 8)
!OVERLAY 4 ovld4rch11.txt                   Keller Barn ditch on BL (D4, Rch 11)
!OVERLAY 5 ovld5rch13.txt                   Beau Village ditch on BL (D5, Rch 13)
!OVERLAY 6 ovld6rch16.txt                   Hwy 190 ditch on BL (D6, Rch 16)
!OVERLAY 7 ovld7rch18.txt                   Hwy 434/190 ditch on BL (D7, Rch 18)
!ENDATA31
```

BAYOU LACOMBE 040901 and 040902 WINTER PROJECTION OUTPUT DATA SET

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LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is \\Alpha_nt\owreng\Personal_Folders\Bryan Hitt\Bayou Lacombe\Input Files\Winter Projection\proj lacombe 4 & 5 DO winter.txt
Output produced at 09:36 on 09/27/2011

$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$

CARD TYPE       CONTROL TITLES

TITLE01         BAYOU LACOMBE WATERSHED MODEL
TITLE02         Winter 4,5 DO curr criteria
CONTROL   YES   METRIC UNITS
ENDATA01

$$$ DATA TYPE 2 (MODEL OPTIONS) $$$

CARD TYPE       MODEL OPTION

MODOPT     NO   TEMPERATURE
MODOPT    YES   SALINITY
MODOPT    YES   CONSERVATIVE MATERIAL  I = CHLORIDE                  IN  mg/L     chloride
MODOPT    YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN  uS/cm    conduct
MODOPT    YES   DISSOLVED OXYGEN
MODOPT    YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT     NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT    YES   NBOD OXYGEN DEMAND
MODOPT     NO   PHOSPHORUS
MODOPT     NO   CHLOROPHYLL A
MODOPT     NO   MACROPHYTES
MODOPT     NO   COLIFORM
ENDATA02

$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                          =         0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE            =         3.00000 (inhibit all rates but SOD)
PROGRAM         DISPERSION EQUATION                 =         1.00000 (values entered as a constant)
PROGRAM         OCEAN EXCHANGE RATIO                =         1.00000
PROGRAM         TIDE HEIGHT                         =         0.15200 meters
PROGRAM         TIDAL PERIOD                        =        25.00000 hours
PROGRAM         PERIOD OF TIDAL RISE                =        12.50000 hours
PROGRAM         K2 MAXIMUM                          =        25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD        =         2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS                 =         2.00000 (values entered as per day)
ENDATA03

$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA05

$$$ DATA TYPE 6 (ALGAE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA06

$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                                      BEGIN         END     ELEM    REACH     ELEMS   BEGIN    END
CARD TYPE  REACH  ID  NAME                            REACH        REACH   LENGTH   LENGTH    PER RCH   ELEM   ELEM
                                                         km           km       km       km               NUM    NUM

REACH ID      1   BL  BL01 TO Hwy 36 Ditch BL         31.00  TO   30.90   0.0100     0.10      10        1     10
REACH ID      2   D1  Hwy 36 Ditch BL                  4.20  TO    0.00   0.1000     4.20      42       11     52
REACH ID      3   BL  Hwy 36 Ditch BL to BL02         30.90  TO   25.20   0.1000     5.70      57       53    109
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REACH ID      4   BL  BL02 to BL03                        25.20  TO   20.30   0.1000     4.90      49      110    158
REACH ID      5   BL  BL03 to SNG Ditch                   20.30  TO   19.40   0.1000     0.90       9      159    167
REACH ID      6   D2  SNG Ditch                            2.10  TO    0.00   0.1000     2.10      21      168    188
REACH ID      7   BL  SNG Ditch to Hwy434/I-12 Dich BL   19.40  TO   19.10   0.1000     0.30       3      189    191
REACH ID      8   D3  Hwy 434/I-12 Ditch BL                3.00  TO    0.00   0.1000     3.00      30      192    221
REACH ID      9   BL  Hwy434/I-12DitchBL to BL04          19.10  TO   18.90   0.1000     0.20       2      222    223
REACH ID     10   BL  BL04 to Keller Barn Ditch           18.90  TO   17.30   0.1000     1.60      16      224    239
REACH ID     11   D4  Keller Barn Ditch                    0.90  TO    0.00   0.1000     0.90       9      240    248
REACH ID     12   BL  KellerBarnDitchToBeauVillageDich    17.30  TO   14.60   0.1000     2.70      27      249    275
REACH ID     13   D5  Beau Village Ditch                   3.00  TO    0.00   0.1000     3.00      30      276    305
REACH ID     14   BL  Beau Village Ditch to BL05          14.60  TO   13.20   0.1000     1.40      14      306    319
REACH ID     15   BL  BL05 to Hwy 190 Ditch BL            13.20  TO   11.10   0.1000     2.10      21      320    340
REACH ID     16   D6  Hwy 190 Ditch BL                     2.20  TO    0.00   0.1000     2.20      22      341    362
REACH ID     17   BL  Hwy190DitchBLtoHwy434/190DitchBL    11.10  TO   11.00   0.0100     0.10      10      363    372
REACH ID     18   D7  Hwy 434/190 Ditch BL                 2.20  TO    0.00   0.1000     2.20      22      373    394
REACH ID     19   BL  Hwy 434/190 Ditch BL to BL06        11.00  TO   10.90   0.0100     0.10      10      395    404
REACH ID     20   BL  BL06 to confluence with BBB         10.90  TO    8.80   0.1000     2.10      21      405    425
REACH ID     21   BB  BB03 to Hwy 434/I-12 ditch BBB       5.20  TO    5.10   0.0100     0.10      10      426    435
REACH ID     22   D8  Hwy 434/I-12 Ditch BBB               6.50  TO    0.00   0.1000     6.50      65      436    500
REACH ID     23   BB  Hwy434/I-12DitchBBBtoFolgerDitch     5.10  TO    4.90   0.0100     0.20      20      501    520
REACH ID     24   D9  Folger Ditch                         0.40  TO    0.00   0.1000     0.40       4      521    524
REACH ID     25   BB  Folger Ditch to BB02                 4.90  TO    2.00   0.1000     2.90      29      525    553
REACH ID     26   BB  BB02 to Berry Todd Rd Ditch          2.00  TO    1.90   0.0100     0.10      10      554    563
REACH ID     27   DA  Berry Todd Rd Ditch                  2.00  TO    0.00   0.1000     2.00      20      564    583
REACH ID     28   BB  BerryToddRdDitchtoHwy190DitchBBB     1.90  TO    0.80   0.1000     1.10      11      584    594
REACH ID     29   DB  Hwy 190 Ditch BBB                    1.30  TO    0.00   0.1000     1.30      13      595    607
REACH ID     30   BB  Hwy 190 Ditch BBB to BB01            0.80  TO    0.30   0.1000     0.50       5      608    612
REACH ID     31   BB  BB01toConfluenceWithBayouLacombe     0.30  TO    0.00   0.1000     0.30       3      613    615
REACH ID     32   BL  Big Branch Bayou to BL07             8.80  TO    8.70   0.0100     0.10      10      616    625
REACH ID     33   BL  BL07to confluence w/CypressBayou     8.70  TO    6.30   0.1000     2.40      24      626    649
REACH ID     34   CB  CB03 to Hwy 190 ditch CB             4.90  TO    4.60   0.1000     0.30       3      650    652
REACH ID     35   DC  Hwy 190 Ditch CB                     1.60  TO    0.00   0.1000     1.60      16      653    668
REACH ID     36   CB  Hwy 190 Ditch CB to CB02             4.60  TO    2.90   0.1000     1.70      17      669    685
REACH ID     37   CB  CB02 to CB01                         2.90  TO    0.20   0.1000     2.70      27      686    712
REACH ID     38   CB  CB01to confluence w/BayouLacombe     0.20  TO    0.00   0.1000     0.20       2      713    714
REACH ID     39   BL  Cypress Bayou to BL08                6.30  TO    6.10   0.1000     0.20       2      715    716
REACH ID     40   BL  BL08 to BL09                         6.10  TO    0.30   0.1000     5.80      58      717    774
REACH ID     41   BL  BL09 to Lake Pontchartrain           0.30  TO    0.00   0.1000     0.30       3      775    777
ENDATA08

$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID       WIDTH       WIDTH       WIDTH       DEPTH       DEPTH       DEPTH      SLOPE    MANNINGS
                            "A"         "B"         "C"         "D"         "E"         "F"                   "N"

HYDR-1       1   BL       0.000       0.000       5.790       0.000       0.000       0.400    0.00000   0.020
HYDR-1       2   D1       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1       3   BL       0.000       0.000       5.790       0.000       0.000       0.400    0.00000   0.020
HYDR-1       4   BL       0.000       0.000       6.100       0.000       0.000       0.180    0.00000   0.020
HYDR-1       5   BL       0.000       0.000       7.160       0.000       0.000       0.170    0.00000   0.020
HYDR-1       6   D2       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1       7   BL       0.000       0.000       7.160       0.000       0.000       0.170    0.00000   0.020
HYDR-1       8   D3       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1       9   BL       0.000       0.000       7.160       0.000       0.000       0.170    0.00000   0.020
HYDR-1      10   BL       0.000       0.000       9.300       0.000       0.000       0.420    0.00000   0.020
HYDR-1      11   D4       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1      12   BL       0.000       0.000       9.300       0.000       0.000       0.420    0.00000   0.020
HYDR-1      13   D5       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1      14   BL       0.000       0.000       9.300       0.000       0.000       0.420    0.00000   0.020
HYDR-1      15   BL       0.000       0.000      25.300       0.000       0.000       3.600    0.00000   0.020
HYDR-1      16   D6       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1      17   BL       0.000       0.000      25.300       0.000       0.000       3.600    0.00000   0.020
HYDR-1      18   D7       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1      19   BL       0.000       0.000      25.300       0.000       0.000       3.600    0.00000   0.020
HYDR-1      20   BL       0.000       0.000      44.200       0.000       0.000       3.150    0.00000   0.020
HYDR-1      21   BB       0.000       0.000       3.660       0.000       0.000       0.390    0.00000   0.020
HYDR-1      22   D8       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1      23   BB       0.000       0.000       3.660       0.000       0.000       0.390    0.00000   0.020
HYDR-1      24   D9       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1      25   BB       0.000       0.000       3.660       0.000       0.000       0.390    0.00000   0.020
HYDR-1      26   BB       0.000       0.000      15.240       0.000       0.000       1.120    0.00000   0.020
HYDR-1      27   DA       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1      28   BB       0.000       0.000      15.240       0.000       0.000       1.120    0.00000   0.020
HYDR-1      29   DB       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1      30   BB       0.000       0.000      15.240       0.000       0.000       1.120    0.00000   0.020
HYDR-1      31   BB       0.000       0.000      39.620       0.000       0.000       2.130    0.00000   0.020
HYDR-1      32   BL       0.000       0.000      82.300       0.000       0.000       2.560    0.00000   0.020
HYDR-1      33   BL       0.000       0.000      82.300       0.000       0.000       2.560    0.00000   0.020
HYDR-1      34   CB       0.000       0.000       4.690       0.000       0.000       0.290    0.00000   0.020
HYDR-1      35   DC       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1      36   CB       0.000       0.000       4.690       0.000       0.000       0.290    0.00000   0.020
HYDR-1      37   CB       0.000       0.000      14.020       0.000       0.000       1.390    0.00000   0.020
HYDR-1      38   CB       0.000       0.000      35.360       0.000       0.000       2.730    0.00000   0.020
HYDR-1      39   BL       0.000       0.000      74.680       0.000       0.000       3.030    0.00000   0.020
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HYDR-1       40   BL       0.000       0.000      74.680       0.000       0.000       3.030     0.00000   0.020
HYDR-1       41   BL       0.000       0.000      99.360       0.000       0.000       1.800     0.00000   0.020
ENDATA09

$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                         RANGE        "A"            "B"            "C"            "D"

HYDR         1   BL      0.00        0.500          0.000          0.000          0.000
HYDR         2   D1      0.00        0.000          0.000          0.000          0.000
HYDR         3   BL      0.00        0.500          0.000          0.000          0.000
HYDR         4   BL      0.00        0.500          0.000          0.000          0.000
HYDR         5   BL      0.00        0.500          0.000          0.000          0.000
HYDR         6   D2      0.00        0.000          0.000          0.000          0.000
HYDR         7   BL      0.00        0.500          0.000          0.000          0.000
HYDR         8   D3      0.00        0.000          0.000          0.000          0.000
HYDR         9   BL      0.00        0.500          0.000          0.000          0.000
HYDR        10   BL      0.25        0.500          0.000          0.000          0.000
HYDR        11   D4      0.00        0.000          0.000          0.000          0.000
HYDR        12   BL      0.25        0.500          0.000          0.000          0.000
HYDR        13   D5      0.00        0.000          0.000          0.000          0.000
HYDR        14   BL      0.50        0.500          0.000          0.000          0.000
HYDR        15   BL      0.75        0.500          0.000          0.000          0.000
HYDR        16   D6      0.00        0.000          0.000          0.000          0.000
HYDR        17   BL      0.75        0.500          0.000          0.000          0.000
HYDR        18   D7      0.00        0.000          0.000          0.000          0.000
HYDR        19   BL      0.75        0.500          0.000          0.000          0.000
HYDR        20   BL      1.00        2.000          0.000          0.000          0.000
HYDR        21   BB      0.25        0.500          0.000          0.000          0.000
HYDR        22   D8      0.00        0.000          0.000          0.000          0.000
HYDR        23   BB      0.50        1.000          0.000          0.000          0.000
HYDR        24   D9      0.00        0.000          0.000          0.000          0.000
HYDR        25   BB      0.75        2.000          0.000          0.000          0.000
HYDR        26   BB      1.00        2.500          0.000          0.000          0.000
HYDR        27   DA      0.00        0.000          0.000          0.000          0.000
HYDR        28   BB      1.00        3.500          0.000          0.000          0.000
HYDR        29   DB      0.00        0.000          0.000          0.000          0.000
HYDR        30   BB      1.00        5.500          0.000          0.000          0.000
HYDR        31   BB      1.00        7.500          0.000          0.000          0.000
HYDR        32   BL      1.00        3.000          0.000          0.000          0.000
HYDR        33   BL      1.00        4.000          0.000          0.000          0.000
HYDR        34   CB      0.50        1.000          0.000          0.000          0.000
HYDR        35   DC      0.00        0.000          0.000          0.000          0.000
HYDR        36   CB      0.75        3.500          0.000          0.000          0.000
HYDR        37   CB      1.00        5.500          0.000          0.000          0.000
HYDR        38   CB      1.00        7.500          0.000          0.000          0.000
HYDR        39   BL      1.00        5.000          0.000          0.000          0.000
HYDR        40   BL      1.00        6.000          0.000          0.000          0.000
HYDR        41   BL      1.00        7.500          0.000          0.000          0.000
ENDATA10

$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$

CARD TYPE      REACH  ID        TEMP     SALIN        DO       NH3     NO3+2      PHOS     CHL A     MACRO

INITIAL          1   BL       19.60      0.01      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL          2   D1       19.60      0.01      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL          3   BL       19.60      0.01      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL          4   BL       19.60      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL          5   BL       19.60      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL          6   D2       19.60      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL          7   BL       19.60      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL          8   D3       19.60      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL          9   BL       19.60      0.00      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL         10   BL       19.60      0.02      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL         11   D4       19.60      0.02      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL         12   BL       19.60      0.02      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL         13   D5       19.60      0.02      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL         14   BL       19.60      0.02      5.00      0.00      0.00      0.00      0.00      0.00
INITIAL         15   BL       19.60      0.36      5.00      0.00      0.00      0.00     10.00      0.00
INITIAL         16   D6       19.60      0.36      4.00      0.00      0.00      0.00      0.00      0.00
INITIAL         17   BL       19.60      0.36      4.00      0.00      0.00      0.00     10.00      0.00
INITIAL         18   D7       19.60      0.36      4.00      0.00      0.00      0.00      0.00      0.00
INITIAL         19   BL       23.30      0.36      4.00      0.00      0.00      0.00     10.00      0.00
INITIAL         20   BL       23.30      4.78      4.00      0.00      0.00      0.00     10.00      0.00
INITIAL         21   BB       19.60      0.00      4.00      0.00      0.00      0.00      2.60      0.00
INITIAL         22   D8       19.60      0.00      4.00      0.00      0.00      0.00      0.00      0.00
INITIAL         23   BB       19.60      0.00      4.00      0.00      0.00      0.00      2.60      0.00
INITIAL         24   D9       19.60      0.00      4.00      0.00      0.00      0.00      0.00      0.00
INITIAL         25   BB       19.60      0.00      4.00      0.00      0.00      0.00      2.60      0.00
INITIAL         26   BB       19.60      0.35      4.00      0.00      0.00      0.00     10.00      0.00
INITIAL         27   DA       19.60      0.35      4.00      0.00      0.00      0.00      0.00      0.00
INITIAL         28   BB       19.60      0.35      4.00      0.00      0.00      0.00     10.00      0.00
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INITIAL	29	DB	19.60	0.35	4.00	0.00	0.00	0.00	0.00	0.00
INITIAL	30	BB	23.30	0.35	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	31	BB	23.30	4.19	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	32	BL	23.30	4.08	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	33	BL	23.30	4.08	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	34	CB	23.30	0.14	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	35	DC	23.30	0.14	4.00	0.00	0.00	0.00	0.00	0.00
INITIAL	36	CB	23.30	0.14	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	37	CB	23.30	3.82	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	38	CB	23.30	5.34	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	39	BL	23.30	5.26	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	40	BL	23.30	5.26	4.00	0.00	0.00	0.00	10.00	0.00
INITIAL	41	BL	23.30	7.05	4.00	0.00	0.00	0.00	10.00	0.00

ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$

CARD TYPE	RCH NUM	RCH ID	K2 OPT		K2 "A"	K2 "B"	K2 "C"	BKGRND SOD g/m²/d	BOD DECAY per day	BOD SETT m/d	BOD CONV TO SOD	ANAER BOD2 DECAY per day	BOD2 DECAY per day	BOD2 SETT m/d	BOD2 CONV TO SOD	ANAER BOD2 DECAY per day
COEF-1	1	BL	11	TEXAS	0.000	0.000	0.000	0.000	0.034	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	D1	15	LOUISIANA	0.000	0.000	0.000	0.625	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	BL	11	TEXAS	0.000	0.000	0.000	0.313	0.034	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	BL	11	TEXAS	0.000	0.000	0.000	0.313	0.031	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	BL	11	TEXAS	0.000	0.000	0.000	2.188	0.038	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	D2	15	LOUISIANA	0.000	0.000	0.000	0.625	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	BL	11	TEXAS	0.000	0.000	0.000	2.188	0.038	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	D3	15	LOUISIANA	0.000	0.000	0.000	0.625	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	BL	11	TEXAS	0.000	0.000	0.000	2.188	0.038	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	BL	11	TEXAS	0.000	0.000	0.000	1.688	0.029	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	11	D4	15	LOUISIANA	0.000	0.000	0.000	0.188	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	BL	11	TEXAS	0.000	0.000	0.000	1.688	0.029	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	D5	15	LOUISIANA	0.000	0.000	0.000	0.188	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	BL	11	TEXAS	0.000	0.000	0.000	1.688	0.029	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	15	BL	3	OCONNER-DOBB	0.000	0.000	0.000	1.125	0.045	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	16	D6	15	LOUISIANA	0.000	0.000	0.000	0.375	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	17	BL	3	OCONNER-DOBB	0.000	0.000	0.000	2.250	0.045	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	18	D7	15	LOUISIANA	0.000	0.000	0.000	0.375	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	19	BL	3	OCONNER-DOBB	0.000	0.000	0.000	2.250	0.045	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	20	BL	3	OCONNER-DOBB	0.000	0.000	0.000	2.625	0.041	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	21	BB	11	TEXAS	0.000	0.000	0.000	0.500	0.070	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	22	D8	15	LOUISIANA	0.000	0.000	0.000	0.125	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	23	BB	11	TEXAS	0.000	0.000	0.000	0.500	0.070	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	24	D9	15	LOUISIANA	0.000	0.000	0.000	0.125	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	25	BB	11	TEXAS	0.000	0.000	0.000	1.500	0.070	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	26	BB	3	OCONNER-DOBB	0.000	0.000	0.000	1.750	0.053	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	27	DA	15	LOUISIANA	0.000	0.000	0.000	0.125	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	28	BB	3	OCONNER-DOBB	0.000	0.000	0.000	1.750	0.053	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	29	DB	15	LOUISIANA	0.000	0.000	0.000	0.125	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	30	BB	3	OCONNER-DOBB	0.000	0.000	0.000	1.750	0.053	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	31	BB	3	OCONNER-DOBB	0.000	0.000	0.000	1.750	0.049	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	32	BL	3	OCONNER-DOBB	0.000	0.000	0.000	4.375	0.048	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	33	BL	3	OCONNER-DOBB	0.000	0.000	0.000	1.250	0.048	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	34	CB	11	TEXAS	0.000	0.000	0.000	1.500	0.069	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	35	DC	15	LOUISIANA	0.000	0.000	0.000	0.125	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	36	CB	11	TEXAS	0.000	0.000	0.000	1.500	0.069	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	37	CB	3	OCONNER-DOBB	0.000	0.000	0.000	1.500	0.052	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	38	CB	3	OCONNER-DOBB	0.000	0.000	0.000	0.000	0.054	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	39	BL	3	OCONNER-DOBB	0.000	0.000	0.000	1.250	0.051	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	40	BL	3	OCONNER-DOBB	0.000	0.000	0.000	1.688	0.051	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	41	BL	3	OCONNER-DOBB	0.000	0.000	0.000	0.000	0.063	0.050	0.000	0.000	0.000	0.000	0.000	0.000

ENDATA12

$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$

CARD TYPE	REACH	ID	NBOD DECA	NBOD SETT	ORGN CONV TO NH3 SRCE	NH3 DECA	NH3 SRCE	PHOS SRCE	DENIT RATE
COEF-2	1	BL	0.005	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	2	D1	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	3	BL	0.005	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	4	BL	0.595	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	5	BL	0.041	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	6	D2	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	7	BL	0.041	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	8	D3	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	9	BL	0.041	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	10	BL	0.070	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	11	D4	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	12	BL	0.070	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	13	D5	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	14	BL	0.070	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	15	BL	0.052	0.050	0.000	0.000	0.000	0.000	0.000

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COEF-2          16  D6      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          17  BL      0.052     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          18  D7      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          19  BL      0.052     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          20  BL      0.089     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          21  BB      0.595     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          22  D8      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          23  BB      0.595     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          24  D9      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          25  BB      0.595     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          26  BB      0.106     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          27  DA      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          28  BB      0.106     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          29  DB      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          30  BB      0.106     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          31  BB      0.042     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          32  BL      0.129     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          33  BL      0.129     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          34  CB      0.136     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          35  DC      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          36  CB      0.136     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          37  CB      0.054     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          38  CB      0.080     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          39  BL      0.064     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          40  BL      0.064     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          41  BL      0.101     0.050     0.000       0.000     0.000     0.000     0.000
ENDATA13

$$$ DATA TYPE 14 (ALGAE AND MACROPHYTE COEFFICIENTS) $$$

CARD TYPE      REACH  ID       SECCHI    ALGAE:     ALGAE    ALG CONV     ALGAE     ALGAE     MACRO     MACRO
                                DEPTH     CHL A      SETT     TO SOD       GROW      RESP      GROW      RESP   SHADING

ENDATA14

$$$ DATA TYPE 15 (COLIFORM AND NONCONSERVATIVE COEFFICIENTS) $$$

CARD TYPE      REACH  ID    COLIFORM       NCM       NCM    NCM CONV
                             DIE-OFF     DECAY      SETT     TO SOD

ENDATA15

$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE      REACH  ID       OUTFLOW      INFLOW      TEMP     SALIN      CM-I     CM-II   IN/DIST  OUT/DIST

INCR-1           1   BL      0.00000     0.17996     20.85      0.01      5.60     51.60   1.79958   0.00000
INCR-1           2   D1      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           3   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           4   BL      0.00000     0.04188     21.28      0.00      5.50     56.00   0.00855   0.00000
INCR-1           5   BL      0.00000     0.04326     22.03      0.00      5.70     58.04   0.04807   0.00000
INCR-1           6   D2      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           7   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           8   D3      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           9   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          10   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          11   D4      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          12   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          13   D5      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          14   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          15   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          16   D6      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          17   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          18   D7      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          19   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          20   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          21   BB      0.00000     0.14751     21.66      0.00     10.40     95.61   1.47505   0.00000
INCR-1          22   D8      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          23   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          24   D9      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          25   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          26   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          27   DA      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          28   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          29   DB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          30   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          31   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          32   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          33   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          34   CB      0.00000     0.18882     23.25      0.14     22.50    286.90   0.62941   0.00000
INCR-1          35   DC      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          36   CB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          37   CB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          38   CB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
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INCR-1          39   BL       0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          40   BL       0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          41   BL       0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
ENDATA16

$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE      REACH  ID          DO       BOD      NBOD                        BOD#2

INCR-2           1   BL        5.00      1.91      0.00      0.00      0.00      0.00
INCR-2           2   D1        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2           3   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2           4   BL        5.00      1.65      0.03      0.00      0.00      0.00
INCR-2           5   BL        5.00      2.99      0.49      0.00      0.00      0.00
INCR-2           6   D2        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2           7   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2           8   D3        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2           9   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          10   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          11   D4        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          12   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          13   D5        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          14   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          15   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          16   D6        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          17   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          18   D7        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          19   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          20   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          21   BB        4.00      0.67      0.01      0.00      0.00      0.00
INCR-2          22   D8        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          23   BB        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          24   D9        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          25   BB        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          26   BB        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          27   DA        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          28   BB        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          29   DB        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          30   BB        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          31   BB        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          32   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          33   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          34   CB        4.00      4.10      0.64      0.00      0.00      0.00
INCR-2          35   DC        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          36   CB        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          37   CB        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          38   CB        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          39   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          40   BL        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2          41   BL        0.00      0.00      0.00      0.00      0.00      0.00
ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

 CARD TYPE      REACH  ID         PHOS     CHL A      COLI       NCM

ENDATA18

$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$

CARD TYPE      REACH  ID       BOD#1      NBOD      COLI       NCM        DO     BOD#2

NONPOINT         1   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         2   D1        0.08      0.02      0.00      0.00      0.00      0.00
NONPOINT         3   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         4   BL       31.25      6.25      0.00      0.00      0.00      0.00
NONPOINT         5   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         6   D2        0.04      0.01      0.00      0.00      0.00      0.00
NONPOINT         7   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         8   D3        0.06      0.02      0.00      0.00      0.00      0.00
NONPOINT         9   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        10   BL       18.75      9.75      0.00      0.00      0.00      0.00
NONPOINT        11   D4        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        12   BL       31.88      9.75      0.00      0.00      0.00      0.00
NONPOINT        13   D5        0.02      0.00      0.00      0.00      0.00      0.00
NONPOINT        14   BL       18.75      9.75      0.00      0.00      0.00      0.00
NONPOINT        15   BL       93.75     33.75      0.00      0.00      0.00      0.00
NONPOINT        16   D6        0.03      0.01      0.00      0.00      0.00      0.00
NONPOINT        17   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        18   D7        0.03      0.01      0.00      0.00      0.00      0.00
NONPOINT        19   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        20   BL      112.50      0.00      0.00      0.00      0.00      0.00
NONPOINT        21   BB        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        22   D8        0.03      0.01      0.00      0.00      0.00      0.00
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NONPOINT         23   BB        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         24   D9        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         25   BB        6.25      0.00      0.00      0.00      0.00      0.00
NONPOINT         26   BB        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         27   DA        0.01      0.00      0.00      0.00      0.00      0.00
NONPOINT         28   BB        8.75      0.00      0.00      0.00      0.00      0.00
NONPOINT         29   DB        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         30   BB        8.75      0.00      0.00      0.00      0.00      0.00
NONPOINT         31   BB       97.50     50.00      0.00      0.00      0.00      0.00
NONPOINT         32   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         33   BL      250.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         34   CB        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         35   DC        0.01      0.00      0.00      0.00      0.00      0.00
NONPOINT         36   CB       16.25      0.00      0.00      0.00      0.00      0.00
NONPOINT         37   CB       37.50      0.00      0.00      0.00      0.00      0.00
NONPOINT         38   CB       12.50      0.00      0.00      0.00      0.00      0.00
NONPOINT         39   BL        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         40   BL     1687.50    562.50      0.00      0.00      0.00      0.00
NONPOINT         41   BL      250.00      0.00      0.00      0.00      0.00      0.00
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                   UNIT     FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                          m³/s      cfs   deg C      ppt      mg/L     uS/cm

HDWTR-1           1     BAYOU LACOMBE           0   0.09200    3.249   19.60     0.01     5.600    51.600   0.00
HDWTR-1          11     Ditch #1 Hwy 36 BL      0   0.00280    0.099   19.60     0.01     5.600    51.600   0.00
HDWTR-1         168     Ditch #2 SNG ditch      0   0.00280    0.099   19.60     0.01     5.600    51.600   0.00
HDWTR-1         192     Ditch#3Hwy434/I-12BL    0   0.00280    0.099   19.60     0.01     5.600    51.600   0.00
HDWTR-1         240     Ditch #4 Keller Barn    0   0.00280    0.099   19.60     0.01     5.600    51.600   0.00
HDWTR-1         276     Ditch#5 Beau Village    0   0.00280    0.099   19.60     0.01     5.600    51.600   0.00
HDWTR-1         341     Ditch #6 Hwy 190 BL     0   0.00280    0.099   19.60     0.01     5.600    51.600   0.00
HDWTR-1         373     Ditch#7 Hwy434/190BL    0   0.00280    0.099   19.60     0.01     5.600    51.600   0.00
HDWTR-1         426     Big Branch Bayou        0   0.00900    0.318   19.60     0.00    10.400    95.610   0.00
HDWTR-1         436     Dich#8Hwy434/I-12BBB    0   0.00280    0.099   19.60     0.00    10.400    95.610   0.00
HDWTR-1         521     Ditch #9 Folger         0   0.00280    0.099   19.60     0.00    10.400    95.610   0.00
HDWTR-1         564     Ditch A BerryTodd Rd    0   0.00280    0.099   19.60     0.00    10.400    95.610   0.00
HDWTR-1         595     Ditch B Hwy 190 BBB     0   0.00280    0.099   19.60     0.00    10.400    95.610   0.00
HDWTR-1         650     Cypress Bayou           0   0.02300    0.812   23.30     0.14    22.500   286.900   0.00
HDWTR-1         653     Ditch C Hwy 190 CB      0   0.00280    0.099   23.30     0.14    22.500   286.900   0.00
ENDATA20

$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE     ELEMENT   NAME                        DO     BOD#1     NBOD                          BOD#2
                                                    mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     BAYOU LACOMBE             5.00      1.91      0.00      0.00      0.00      0.00
HDWTR-2          11     Ditch #1 Hwy 36 BL        5.00      2.75      1.25      0.00      0.00      0.00
HDWTR-2         168     Ditch #2 SNG ditch        5.00      2.75      1.25      0.00      0.00      0.00
HDWTR-2         192     Ditch#3Hwy434/I-12BL      5.00      2.75      1.25      0.00      0.00      0.00
HDWTR-2         240     Ditch #4 Keller Barn      5.00      0.82      0.38      0.00      0.00      0.00
HDWTR-2         276     Ditch#5 Beau Village      5.00      0.82      0.38      0.00      0.00      0.00
HDWTR-2         341     Ditch #6 Hwy 190 BL       4.00      1.65      0.75      0.00      0.00      0.00
HDWTR-2         373     Ditch#7 Hwy434/190BL      4.00      1.65      0.75      0.00      0.00      0.00
HDWTR-2         426     Big Branch Bayou          4.00      0.67      0.01      0.00      0.00      0.00
HDWTR-2         436     Dich#8Hwy434/I-12BBB      4.00      0.55      0.25      0.00      0.00      0.00
HDWTR-2         521     Ditch #9 Folger           4.00      0.55      0.25      0.00      0.00      0.00
HDWTR-2         564     Ditch A BerryTodd Rd      4.00      0.55      0.25      0.00      0.00      0.00
HDWTR-2         595     Ditch B Hwy 190 BBB       4.00      0.55      0.25      0.00      0.00      0.00
HDWTR-2         650     Cypress Bayou             4.00      4.10      0.64      0.00      0.00      0.00
HDWTR-2         653     Ditch C Hwy 190 CB        4.00      0.55      0.25      0.00      0.00      0.00
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                       PHOS     CHL A      COLI       NCM
                                                    mg/L      mg/L      mg/L      mg/L

ENDATA22

$$$ DATA TYPE 23 (JUNCTION DATA) $$$

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

JUNCTION          53      10      30.90  Hwy 36 ditch BL confluence with Bayou Lacombe
JUNCTION         189     167      19.40  Ditch #2-SNG Ditch confluence with Bayou Lacombe
JUNCTION         222     191      19.10  Ditch #3-Hwy 434/I-12 Ditch BL confluence with Bayou Lacombe
JUNCTION         249     239      17.30  Ditch #4-Keller Barn Ditch confluence with Bayou Lacombe
JUNCTION         306     275      14.60  Ditch #5-Beau Village Ditch confluence with Bayou Lacombe
JUNCTION         363     340      11.10  Ditch #6-Hwy 190 Ditch BL confluence with Bayou Lacombe
JUNCTION         395     372      11.00  Ditch #7-Hwy 434/190 Ditch BL confluence with Bayou Lacombe
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JUNCTION         501     435       5.10  Ditch #8-Hwy 434/I-12 Ditch BBB confluence w/Big BranchBayou
JUNCTION         525     520       4.90  Ditch #9-Folger Ditch confluence with Big Branch Bayou
JUNCTION         584     563       1.90  Ditch A-Berry Todd Rd Ditch confluence with Big Branch Bayou
JUNCTION         608     594       0.80  Ditch B-Hwy 190 Ditch BBB confluence with Big Branch Bayou
JUNCTION         616     425       8.80  Big Branch Bayou confluence with Bayou Lacombe
JUNCTION         669     652       4.60  Ditch C-Hwy 190 Ditch CB confluence with Cypress Bayou
JUNCTION         715     649       6.30  Cypress Bayou confluence with Bayou Lacombe
ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE  ELEMENT    RKILO  NAME                      FLOW       FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                       m³/s        cfs      MGD   deg C     ppt      mg/L     uS/cm

WSTLD-1       12       4.10  AI 138040 Animal Se    0.00022    0.00774    0.005   30.60     0.37    57.900   719.700
WSTLD-1       40       1.30  AI 120304 St Tamman    0.00013    0.00464    0.003   30.60     0.37    57.900   719.700
WSTLD-1      169       2.00  AI 94746 Southern N    0.00014    0.00483    0.003   30.60     0.37    57.900   719.700
WSTLD-1      196       2.60  AI 155402 Axonic Ne    0.00005    0.00194    0.001   30.60     0.37    57.900   719.700
WSTLD-1      206       1.60  Cluster1Hwy434I12BL    0.00028    0.00984    0.006   30.60     0.37    57.900   719.700
WSTLD-1      208       1.40  Cluster2Hwy434I12BL    0.00057    0.02023    0.013   30.60     0.37    57.900   719.700
WSTLD-1      223      19.00  Unnamed Tributary      0.00439    0.15498    0.100   21.85     0.02     7.400    62.600
WSTLD-1      241       0.80  AI 119164 St Tamman    0.00001    0.00027    0.000   30.60     0.37    57.900   719.700
WSTLD-1      272      15.00  AI 157591 Carmelite    0.00003    0.00097    0.001   30.60     0.37    57.900   719.700
WSTLD-1      277       2.90  AI 33916 WTSO Beau     0.00131    0.04641    0.030   30.60     0.37    57.900   719.700
WSTLD-1      325      12.70  AI 93344 US Fish &     0.00006    0.00217    0.001   30.60     0.37    57.900   719.700
WSTLD-1      342       2.10  AI 43023 Regina Coe    0.00011    0.00377    0.002   30.60     0.37    57.900   719.700
WSTLD-1      344       1.90  AI 40796 Janie Brow    0.00010    0.00339    0.002   30.60     0.37    57.900   719.700
WSTLD-1      349       1.40  Cluster 1 Hwy190 BL    0.00002    0.00073    0.000   30.60     0.37    57.900   719.700
WSTLD-1      350       1.30  Cluster 2 Hwy190 BL    0.00042    0.01499    0.010   30.60     0.37    57.900   719.700
WSTLD-1      352       1.10  Cluster 3 Hwy190 BL    0.00080    0.02839    0.018   30.60     0.37    57.900   719.700
WSTLD-1      353       1.00  Cluster 4 Hwy190 BL    0.00005    0.00172    0.001   30.60     0.37    57.900   719.700
WSTLD-1      354       0.90  AI 43406 Bayou Laco    0.00025    0.00889    0.006   30.60     0.37    57.900   719.700
WSTLD-1      358       0.50  Cluster 5 Hwy190 BL    0.00018    0.00621    0.004   30.60     0.37    57.900   719.700
WSTLD-1      360       0.30  Cluster 6 Hwy190 BL    0.00120    0.04254    0.027   30.60     0.37    57.900   719.700
WSTLD-1      374       2.10  AI 97944 Hwy 34 Min    0.00000    0.00004    0.000   30.60     0.37    57.900   719.700
WSTLD-1      390       0.50  AI 157861 Kingdom H    0.00004    0.00145    0.001   30.60     0.37    57.900   719.700
WSTLD-1      391       0.40  AI 119750 Highway 4    0.00001    0.00042    0.000   30.60     0.37    57.900   719.700
WSTLD-1      442       5.90  AI 165334 H2O Syste    0.00004    0.00136    0.001   30.60     0.37    57.900   719.700
WSTLD-1      464       3.70  AI 94173 Southeaste    0.00329    0.11603    0.075   30.60     0.37    57.900   719.700
WSTLD-1      522       0.30  AI 114220 Folger Co    0.00022    0.00774    0.005   30.60     0.37    57.900   719.700
WSTLD-1      565       1.90  AI 157509 Feather &    0.00307    0.10829    0.070   30.60     0.37    57.900   719.700
WSTLD-1      596       1.20  AI 156133 Python Co    0.00001    0.00023    0.000   30.60     0.37    57.900   719.700
WSTLD-1      602       0.60  AI 101375 OW Bayou     0.00000    0.00004    0.000   30.60     0.37    57.900   719.700
WSTLD-1      651       4.80  AI 31079 Brier Lake    0.00219    0.07735    0.050   23.06     0.26    23.500   516.300
WSTLD-1      652       4.70  AI 156693 H2O Syste    0.00657    0.23206    0.150   30.60     0.37    57.900   719.700
WSTLD-1      654       1.50  AI 127495 A to Z Pr    0.00009    0.00329    0.002   30.60     0.37    57.900   719.700
WSTLD-1      655       1.40  AI 123821 Kevin J S    0.00001    0.00039    0.000   30.60     0.37    57.900   719.700
WSTLD-1      660       0.90  AI 157767 St Tamman    0.00000    0.00004    0.000   30.60     0.37    57.900   719.700
WSTLD-1      661       0.80  AI 157892 Mottie Mc    0.00000    0.00008    0.000   30.60     0.37    57.900   719.700
WSTLD-1      663       0.60  AI 119584 Tiller of    0.00001    0.00019    0.000   30.60     0.37    57.900   719.700
WSTLD-1      674       4.10  AI 41881 ICO Corp      0.00000    0.00016    0.000   30.60     0.37    57.900   719.700
WSTLD-1      677       3.80  AI 117076 LA Pines     0.00027    0.00967    0.006   30.60     0.37    57.900   719.700
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                      % BOD                          %
CARD TYPE     ELEMENT   NAME                      DO       BOD      RMVL     NBOD              NITRIF              BOD#2
                                                 mg/L      mg/L                mg/L      mg/L                mg/L      mg/L

WSTLD-2          12     AI 138040 Animal Se     2.00     69.00      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2          40     AI 120304 St Tamman     2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         169     AI 94746 Southern N     2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         196     AI 155402 Axonic Ne     2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         206     Cluster1Hwy434I12BL     2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         208     Cluster2Hwy434I12BL     2.00     69.00      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         223     Unnamed Tributary       4.24      3.89      0.00     0.14      0.00      0.00      0.00      0.00
WSTLD-2         241     AI 119164 St Tamman     2.00     23.00      0.00    21.50      0.00      0.00      0.00      0.00
WSTLD-2         272     AI 157591 Carmelite     2.00     23.00      0.00    21.50      0.00      0.00      0.00      0.00
WSTLD-2         277     AI 33916 WTSO Beau      2.00     11.50      0.00     8.60      0.00      0.00      0.00      0.00
WSTLD-2         325     AI 93344 US Fish &      2.00     23.00      0.00    21.50      0.00      0.00      0.00      0.00
WSTLD-2         342     AI 43023 Regina Coe     2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         344     AI 40796 Janie Brow     2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         349     Cluster 1 Hwy190 BL     2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         350     Cluster 2 Hwy190 BL     2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         352     Cluster 3 Hwy190 BL     2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         353     Cluster 4 Hwy190 BL     2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         354     AI 43406 Bayou Laco     2.00     23.00      0.00    21.50      0.00      0.00      0.00      0.00
WSTLD-2         358     Cluster 5 Hwy190 BL     2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         360     Cluster 6 Hwy190 BL     2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         374     AI 97944 Hwy 34 Min     2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         390     AI 157861 Kingdom H     2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         391     AI 119750 Highway 4     2.00     46.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         442     AI 165334 H2O Syste     2.00     23.00      0.00     8.60      0.00      0.00      0.00      0.00
WSTLD-2         464     AI 94173 Southeaste     2.00     11.50      0.00     8.60      0.00      0.00      0.00      0.00
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WSTLD-2         522     AI 114220 Folger Co         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         565     AI 157509 Feather &         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         596     AI 156133 Python Co         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         602     AI 101375 OW Bayou          2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         651     AI 31079 Brier Lake         2.00     11.50      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         652     AI 156693 H2O Syste         5.00     11.50      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         654     AI 127495 A to Z Pr         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         655     AI 123821 Kevin J S         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         660     AI 157767 St Tamman         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         661     AI 157892 Mottie Mc         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         663     AI 119584 Tiller of         2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         674     AI 41881 ICO Corp           2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
WSTLD-2         677     AI 117076 LA Pines          2.00     23.00      0.00      8.60      0.00      0.00      0.00      0.00
ENDATA25

$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                        PHOS     CHL A      COLI       NCM
                                                    mg/L      mg/L      mg/L      mg/L

ENDATA26

$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     23.300     deg C
LOWER BC     SALINITY                          =      7.020     ppt
LOWER BC     CONSERVATIVE MATERIAL I (chloride) =   4128.000     mg/L
LOWER BC     CONSERVATIVE MATERIAL II (conduct) =  12216.000     uS/cm
LOWER BC     DISSOLVED OXYGEN                  =      7.140     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =      5.012     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND    =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                     =      8.300     µg/L
LOWER BC     NBOD                              =      1.166     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$

CARD TYPE     ELEMENT   NAME                  EQN      "A"       "B"       "H"

ENDATA28

$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$

CARD TYPE       PARAMETER     COL 1     COL 2     COL 3     COL 4     COL 5     COL 6     COL 7     COL 8

SENSITIV         BASEFLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         VELOCITY      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         DEPTH         30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         DISPERSI      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         REAERATI      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD DECA      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD SETT      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD2 DEC      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD2 SET      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         TRANGE        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NBOD DEC      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NBOD SET      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BENTHAL       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         TEMPERAT       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         SALINITY      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         CHLOR A       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC INFL      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC TEMP      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW FLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW TEMP      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL FLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL TEMP       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         OXR           30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC TEMP       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
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SENSITIV         LBC BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC CHLO      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NPS BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NPS BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NPS NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
ENDATA29

$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$


NUMBER OF PLOTS =  8
NUMBER OF REACHES IN PLOT 1 =  18
PLOT RCH  1  3  4  5  7  9 10 12 14 15 17 19 20 32 33 39 40 41
NUMBER OF REACHES IN PLOT 2 =   7
PLOT RCH 21 23 25 26 28 30 31
NUMBER OF REACHES IN PLOT 3 =   4
PLOT RCH 34 36 37 38
NUMBER OF REACHES IN PLOT 4 =   1
PLOT RCH 22
NUMBER OF REACHES IN PLOT 5 =   1
PLOT RCH 24
NUMBER OF REACHES IN PLOT 6 =   1
PLOT RCH 27
NUMBER OF REACHES IN PLOT 7 =   1
PLOT RCH 29
NUMBER OF REACHES IN PLOT 8 =   1
PLOT RCH 35
ENDATA30

$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$


OVERLAY 1 OVLBL.txt                        BAYOU LACOMBE
OVERLAY 2 OVLBBB.txt                       BIG BRANCH BAYOU
OVERLAY 3 OVLCB.txt                        CYPRESS BAYOU
OVERLAY 4 ovld8rch22.txt                   Hwy 434/I-12 ditch on BBB (D8, Rch 22)
OVERLAY 5 ovld9rch24.txt                   Folger ditch on BBB (D9, Rch 24)
OVERLAY 6 ovldarch27.txt                   Berry Todd Rd ditch on BBB (DA, Rch 27)
OVERLAY 7 ovldbrch29.txt                   Hwy 190 ditch on BBB (DB, Rch 29)
OVERLAY 8 ovldcrch35.txt                   Hwy 190 ditch on CB (DC, Rch 35)
ENDATA31


     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
     .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12
     .....GRAPHICS DATA FOR PLOT 3 WRITTEN TO UNIT 13
     .....GRAPHICS DATA FOR PLOT 4 WRITTEN TO UNIT 14
     .....GRAPHICS DATA FOR PLOT 5 WRITTEN TO UNIT 15
     .....GRAPHICS DATA FOR PLOT 6 WRITTEN TO UNIT 16
     .....GRAPHICS DATA FOR PLOT 7 WRITTEN TO UNIT 17
     .....GRAPHICS DATA FOR PLOT 8 WRITTEN TO UNIT 18


FINAL REPORT    BAYOU LACOMBE                                   BAYOU LACOMBE WATERSHED MODEL
REACH NO.  1    BL01 TO Hwy 36 Ditch BL                         Winter 4,5 DO curr criteria

 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

    1  HDWTR     0.09200   19.60     0.01     5.60    51.60   5.00   1.91   0.00   1.91   0.00   0.00   0.00   0.00   0.00   0.00     0.00    0.00
 EACH  INCR      0.01800   20.85     0.01     5.60    51.60   5.00   1.91   0.00                  0.00   0.00   0.00   0.00    0.00     0.00

 ************************************************** HYDRAULIC PARAMETER VALUES **************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
  NO.    DIST    DIST               EFF     VELO      TIME                                  AREA    AREA     PRISM    VELO              VELO
          km      km        m³/s            m/s      days       m       m        m³         m²      m²        m³     m/s      m²/s     m/s

    1   31.00   30.99    0.11000   0.0   0.04749      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.047
    2   30.99   30.98    0.12799   0.0   0.05526      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.055
    3   30.98   30.97    0.14599   0.0   0.06303      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.063
    4   30.97   30.96    0.16398   0.0   0.07080      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.071
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5	30.96	30.95	0.18198	0.0	0.07857	0.00	0.40	5.79	23.16	57.90	2.32	0.00	0.000	0.500	0.079
6	30.95	30.94	0.19998	0.0	0.08635	0.00	0.40	5.79	23.16	57.90	2.32	0.00	0.000	0.500	0.086
7	30.94	30.93	0.21797	0.0	0.09412	0.00	0.40	5.79	23.16	57.90	2.32	0.00	0.000	0.500	0.094
8	30.93	30.92	0.23597	0.0	0.10189	0.00	0.40	5.79	23.16	57.90	2.32	0.00	0.000	0.500	0.102
9	30.92	30.91	0.25396	0.0	0.10966	0.00	0.40	5.79	23.16	57.90	2.32	0.00	0.000	0.500	0.110
10	30.91	30.90	0.27196	0.0	0.11743	0.00	0.40	5.79	23.16	57.90	2.32	0.00	0.000	0.500	0.117
TOT						0.02			231.60	579.00					
AVG					0.0760		0.40	5.79			2.32				
CUM						0.02									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	30.990	9.16	1.88	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	30.980	9.16	1.96	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	30.970	9.16	2.03	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	30.960	9.16	2.10	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	30.950	9.16	2.16	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	30.940	9.16	2.22	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	30.930	9.16	2.27	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	30.920	9.16	2.32	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	30.910	9.16	2.37	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	30.900	9.16	2.41	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.19	0.03	0.05	0.00	0.00	0.00	0.00	0.00			0.00	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
1	30.990	19.60	0.01	5.60	51.60	5.03	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
2	30.980	19.60	0.01	5.60	51.60	5.04	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
3	30.970	19.60	0.01	5.60	51.60	5.05	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
4	30.960	19.60	0.01	5.60	51.60	5.06	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
5	30.950	19.60	0.01	5.60	51.60	5.06	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
6	30.940	19.60	0.01	5.60	51.60	5.07	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
7	30.930	19.60	0.01	5.60	51.60	5.08	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
8	30.920	19.60	0.01	5.60	51.61	5.08	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
9	30.910	19.60	0.01	5.60	51.62	5.09	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
10	30.900	19.60	0.01	5.60	51.66	5.10	1.92	0.00	1.92	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 3 Hwy 36 Ditch BL to BL02 Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
53	UPR RCH	0.27196	19.60	0.01	5.60	51.66	5.10	1.92	0.00	1.92	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
53	TRIB	0.00315	19.60	0.05	11.42	125.95	8.62	11.02	0.00	11.02	0.00	7.98	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
53	30.90	30.80	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
54	30.80	30.70	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
55	30.70	30.60	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
56	30.60	30.50	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
57	30.50	30.40	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
58	30.40	30.30	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
59	30.30	30.20	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
60	30.20	30.10	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
61	30.10	30.00	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
62	30.00	29.90	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
63	29.90	29.80	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
64	29.80	29.70	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
65	29.70	29.60	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
66	29.60	29.50	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119

67	29.50	29.40	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
68	29.40	29.30	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
69	29.30	29.20	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
70	29.20	29.10	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
71	29.10	29.00	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
72	29.00	28.90	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
73	28.90	28.80	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
74	28.80	28.70	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
75	28.70	28.60	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
76	28.60	28.50	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
77	28.50	28.40	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
78	28.40	28.30	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
79	28.30	28.20	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
80	28.20	28.10	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
81	28.10	28.00	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
82	28.00	27.90	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
83	27.90	27.80	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
84	27.80	27.70	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
85	27.70	27.60	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
86	27.60	27.50	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
87	27.50	27.40	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
88	27.40	27.30	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
89	27.30	27.20	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
90	27.20	27.10	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
91	27.10	27.00	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
92	27.00	26.90	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
93	26.90	26.80	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
94	26.80	26.70	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
95	26.70	26.60	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
96	26.60	26.50	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
97	26.50	26.40	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
98	26.40	26.30	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
99	26.30	26.20	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
100	26.20	26.10	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
101	26.10	26.00	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
102	26.00	25.90	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
103	25.90	25.80	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
104	25.80	25.70	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
105	25.70	25.60	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
106	25.60	25.50	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
107	25.50	25.40	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
108	25.40	25.30	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
109	25.30	25.20	0.27511	0.1	0.11879	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.119
TOT						0.56			13201.19	33003.00					
AVG					0.1188		0.40	5.79			2.32				
CUM						0.57									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
53	30.800	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	30.700	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	30.600	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	30.500	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	30.400	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	30.300	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	30.200	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	30.100	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	30.000	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62	29.900	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	29.800	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	29.700	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	29.600	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66	29.500	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67	29.400	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	29.300	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	29.200	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	29.100	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	29.000	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72	28.900	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	28.800	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	28.700	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	28.600	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	28.500	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	28.400	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	28.300	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	28.200	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	28.100	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81	28.000	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

82	27.900	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	27.800	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	27.700	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	27.600	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	27.500	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	27.400	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	27.300	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	27.200	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	27.100	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	27.000	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	26.900	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	26.800	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	26.700	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	26.600	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	26.500	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	26.400	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	26.300	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	26.200	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	26.100	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	26.000	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	25.900	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	25.800	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	25.700	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	25.600	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	25.500	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	25.400	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	25.300	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	25.200	9.16	2.42	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.44	0.03	0.05	0.00	0.00	0.00	0.00	0.31			0.00	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
53	30.800	19.60	0.01	5.67	52.45	5.22	2.01	0.00	2.01	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
54	30.700	19.60	0.01	5.67	52.45	5.30	2.01	0.00	2.01	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
55	30.600	19.60	0.01	5.67	52.45	5.38	2.01	0.00	2.01	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
56	30.500	19.60	0.01	5.67	52.45	5.46	2.01	0.00	2.01	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
57	30.400	19.60	0.01	5.67	52.45	5.54	2.01	0.00	2.01	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
58	30.300	19.60	0.01	5.67	52.45	5.61	2.00	0.00	2.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
59	30.200	19.60	0.01	5.67	52.45	5.69	2.00	0.00	2.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
60	30.100	19.60	0.01	5.67	52.45	5.76	2.00	0.00	2.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
61	30.000	19.60	0.01	5.67	52.45	5.83	2.00	0.00	2.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
62	29.900	19.60	0.01	5.67	52.45	5.90	2.00	0.00	2.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
63	29.800	19.60	0.01	5.67	52.45	5.96	2.00	0.00	2.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
64	29.700	19.60	0.01	5.67	52.45	6.03	1.99	0.00	1.99	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
65	29.600	19.60	0.01	5.67	52.45	6.09	1.99	0.00	1.99	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
66	29.500	19.60	0.01	5.67	52.45	6.16	1.99	0.00	1.99	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
67	29.400	19.60	0.01	5.67	52.45	6.22	1.99	0.00	1.99	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
68	29.300	19.60	0.01	5.67	52.45	6.28	1.99	0.00	1.99	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
69	29.200	19.60	0.01	5.67	52.45	6.34	1.99	0.00	1.99	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
70	29.100	19.60	0.01	5.67	52.45	6.39	1.98	0.00	1.98	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
71	29.000	19.60	0.01	5.67	52.45	6.45	1.98	0.00	1.98	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
72	28.900	19.60	0.01	5.67	52.45	6.50	1.98	0.00	1.98	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
73	28.800	19.60	0.01	5.67	52.45	6.56	1.98	0.00	1.98	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
74	28.700	19.60	0.01	5.67	52.45	6.61	1.98	0.00	1.98	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
75	28.600	19.60	0.01	5.67	52.45	6.66	1.98	0.00	1.98	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
76	28.500	19.60	0.01	5.67	52.45	6.71	1.98	0.00	1.98	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
77	28.400	19.60	0.01	5.67	52.45	6.76	1.97	0.00	1.97	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
78	28.300	19.60	0.01	5.67	52.45	6.81	1.97	0.00	1.97	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
79	28.200	19.60	0.01	5.67	52.45	6.85	1.97	0.00	1.97	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
80	28.100	19.60	0.01	5.67	52.45	6.90	1.97	0.00	1.97	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
81	28.000	19.60	0.01	5.67	52.45	6.94	1.97	0.00	1.97	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
82	27.900	19.60	0.01	5.67	52.45	6.99	1.97	0.00	1.97	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
83	27.800	19.60	0.01	5.67	52.45	7.03	1.96	0.00	1.96	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
84	27.700	19.60	0.01	5.67	52.45	7.07	1.96	0.00	1.96	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
85	27.600	19.60	0.01	5.67	52.45	7.11	1.96	0.00	1.96	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
86	27.500	19.60	0.01	5.67	52.45	7.15	1.96	0.00	1.96	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
87	27.400	19.60	0.01	5.67	52.45	7.19	1.96	0.00	1.96	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
88	27.300	19.60	0.01	5.67	52.45	7.22	1.96	0.00	1.96	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
89	27.200	19.60	0.01	5.67	52.45	7.26	1.95	0.00	1.95	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
90	27.100	19.60	0.01	5.67	52.45	7.30	1.95	0.00	1.95	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
91	27.000	19.60	0.01	5.67	52.45	7.33	1.95	0.00	1.95	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
92	26.900	19.60	0.01	5.67	52.45	7.37	1.95	0.00	1.95	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
93	26.800	19.60	0.01	5.67	52.45	7.40	1.95	0.00	1.95	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
94	26.700	19.60	0.01	5.67	52.45	7.43	1.95	0.00	1.95	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
95	26.600	19.60	0.01	5.67	52.45	7.47	1.94	0.00	1.94	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
96	26.500	19.60	0.01	5.67	52.45	7.50	1.94	0.00	1.94	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
97	26.400	19.60	0.01	5.67	52.45	7.53	1.94	0.00	1.94	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

98	26.300	19.60	0.01	5.67	52.45	7.56	1.94	0.00	1.94	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
99	26.200	19.60	0.01	5.67	52.45	7.59	1.94	0.00	1.94	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
100	26.100	19.60	0.01	5.67	52.45	7.61	1.94	0.00	1.94	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
101	26.000	19.60	0.01	5.67	52.45	7.64	1.94	0.00	1.94	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
102	25.900	19.60	0.01	5.67	52.45	7.67	1.93	0.00	1.93	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
103	25.800	19.60	0.01	5.67	52.45	7.70	1.93	0.00	1.93	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
104	25.700	19.60	0.01	5.67	52.45	7.72	1.93	0.00	1.93	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
105	25.600	19.60	0.01	5.67	52.45	7.75	1.93	0.00	1.93	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
106	25.500	19.60	0.01	5.67	52.45	7.77	1.93	0.00	1.93	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
107	25.400	19.60	0.01	5.67	52.45	7.80	1.93	0.00	1.93	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
108	25.300	19.60	0.01	5.67	52.45	7.82	1.92	0.00	1.92	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
109	25.200	19.60	0.01	5.67	52.45	7.84	1.92	0.00	1.92	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 4 BL02 to BL03 Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
110	UPR RCH	0.27511	19.60	0.01	5.67	52.45	7.84	1.92	0.00	1.92	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
EACH	INCR	0.00085	21.28	0.00	5.50	56.00	5.00	1.65	0.00			0.03	0.00	0.00	0.00	0.00	0.00	

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
110	25.20	25.10	0.27596	0.1	0.25133	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.251
111	25.10	25.00	0.27682	0.1	0.25211	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.252
112	25.00	24.90	0.27767	0.1	0.25289	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.253
113	24.90	24.80	0.27853	0.1	0.25367	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.254
114	24.80	24.70	0.27938	0.1	0.25445	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.254
115	24.70	24.60	0.28024	0.1	0.25523	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.255
116	24.60	24.50	0.28109	0.1	0.25600	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.256
117	24.50	24.40	0.28195	0.1	0.25678	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.257
118	24.40	24.30	0.28280	0.1	0.25756	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.258
119	24.30	24.20	0.28366	0.1	0.25834	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.258
120	24.20	24.10	0.28451	0.1	0.25912	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.259
121	24.10	24.00	0.28537	0.1	0.25990	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.260
122	24.00	23.90	0.28622	0.1	0.26067	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.261
123	23.90	23.80	0.28708	0.1	0.26145	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.261
124	23.80	23.70	0.28793	0.1	0.26223	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.262
125	23.70	23.60	0.28878	0.1	0.26301	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.263
126	23.60	23.50	0.28964	0.1	0.26379	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.264
127	23.50	23.40	0.29049	0.1	0.26457	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.265
128	23.40	23.30	0.29135	0.1	0.26535	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.265
129	23.30	23.20	0.29220	0.1	0.26612	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.266
130	23.20	23.10	0.29306	0.1	0.26690	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.267
131	23.10	23.00	0.29391	0.1	0.26768	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.268
132	23.00	22.90	0.29477	0.1	0.26846	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.268
133	22.90	22.80	0.29562	0.1	0.26924	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.269
134	22.80	22.70	0.29648	0.1	0.27002	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.270
135	22.70	22.60	0.29733	0.1	0.27079	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.271
136	22.60	22.50	0.29819	0.1	0.27157	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.272
137	22.50	22.40	0.29904	0.1	0.27235	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.272
138	22.40	22.30	0.29990	0.1	0.27313	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.273
139	22.30	22.20	0.30075	0.1	0.27391	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.274
140	22.20	22.10	0.30161	0.1	0.27469	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.275
141	22.10	22.00	0.30246	0.1	0.27546	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.275
142	22.00	21.90	0.30331	0.1	0.27624	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.276
143	21.90	21.80	0.30417	0.1	0.27702	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.277
144	21.80	21.70	0.30502	0.1	0.27780	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.278
145	21.70	21.60	0.30588	0.1	0.27858	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.279
146	21.60	21.50	0.30673	0.1	0.27936	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.279
147	21.50	21.40	0.30759	0.1	0.28013	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.280
148	21.40	21.30	0.30844	0.1	0.28091	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.281
149	21.30	21.20	0.30930	0.1	0.28169	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.282
150	21.20	21.10	0.31015	0.1	0.28247	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.282
151	21.10	21.00	0.31101	0.1	0.28325	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.283
152	21.00	20.90	0.31186	0.1	0.28403	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.284
153	20.90	20.80	0.31272	0.1	0.28481	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.285
154	20.80	20.70	0.31357	0.1	0.28558	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.286
155	20.70	20.60	0.31443	0.1	0.28636	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.286
156	20.60	20.50	0.31528	0.1	0.28714	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.287
157	20.50	20.40	0.31614	0.1	0.28792	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.288
158	20.40	20.30	0.31699	0.1	0.28870	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.289
TOT						0.21			5380.20	29890.00					

AVG						0.2696			0.18	6.10													1.10
CUM								0.78															

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
110	25.100	9.16	6.06	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	25.000	9.16	6.07	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	24.900	9.16	6.07	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	24.800	9.16	6.08	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	24.700	9.16	6.08	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	24.600	9.16	6.09	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	24.500	9.16	6.09	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	24.400	9.16	6.10	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	24.300	9.16	6.10	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	24.200	9.16	6.11	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	24.100	9.16	6.11	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	24.000	9.16	6.12	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	23.900	9.16	6.12	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	23.800	9.16	6.13	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	23.700	9.16	6.13	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	23.600	9.16	6.14	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	23.500	9.16	6.14	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	23.400	9.16	6.15	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	23.300	9.16	6.15	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	23.200	9.16	6.16	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	23.100	9.16	6.16	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	23.000	9.16	6.17	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	22.900	9.16	6.17	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	22.800	9.16	6.18	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	22.700	9.16	6.18	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	22.600	9.16	6.19	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	22.500	9.16	6.19	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	22.400	9.16	6.20	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	22.300	9.16	6.20	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	22.200	9.16	6.21	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	22.100	9.16	6.21	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	22.000	9.16	6.22	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	21.900	9.16	6.22	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	21.800	9.16	6.22	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	21.700	9.16	6.23	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	21.600	9.16	6.23	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	21.500	9.16	6.24	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	21.400	9.16	6.24	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	21.300	9.16	6.25	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	21.200	9.16	6.25	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	21.100	9.16	6.26	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	21.000	9.16	6.26	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	20.900	9.16	6.27	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	20.800	9.16	6.27	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	20.700	9.16	6.28	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	20.600	9.16	6.28	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	20.500	9.16	6.29	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157	20.400	9.16	6.29	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	20.300	9.16	6.30	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.23	0.03	0.05	0.00	0.00	0.00	0.00	0.31			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
110	25.100	19.60	0.01	5.67	52.46	7.86	1.95	0.00	1.95	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
111	25.000	19.60	0.01	5.67	52.47	7.88	1.97	0.00	1.97	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
112	24.900	19.60	0.01	5.67	52.48	7.90	2.00	0.00	2.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
113	24.800	19.60	0.01	5.66	52.49	7.92	2.02	0.00	2.02	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
114	24.700	19.60	0.01	5.66	52.51	7.93	2.05	0.00	2.05	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
115	24.600	19.60	0.01	5.66	52.52	7.95	2.07	0.00	2.07	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
116	24.500	19.60	0.01	5.66	52.53	7.96	2.10	0.00	2.10	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
117	24.400	19.60	0.01	5.66	52.54	7.98	2.12	0.00	2.12	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
118	24.300	19.60	0.01	5.66	52.55	7.99	2.14	0.00	2.14	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
119	24.200	19.60	0.01	5.66	52.56	8.01	2.17	0.00	2.17	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
120	24.100	19.60	0.01	5.66	52.57	8.02	2.19	0.00	2.19	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
121	24.000	19.60	0.01	5.66	52.58	8.04	2.22	0.00	2.22	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
122	23.900	19.60	0.01	5.66	52.59	8.05	2.24	0.00	2.24	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
123	23.800	19.60	0.01	5.66	52.60	8.06	2.26	0.00	2.26	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

124	23.700	19.60	0.01	5.66	52.61	8.07	2.28	0.00	2.28	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
125	23.600	19.60	0.01	5.66	52.62	8.09	2.31	0.00	2.31	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
126	23.500	19.60	0.01	5.66	52.63	8.10	2.33	0.00	2.33	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
127	23.400	19.60	0.01	5.66	52.64	8.11	2.35	0.00	2.35	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
128	23.300	19.60	0.01	5.66	52.65	8.12	2.38	0.00	2.38	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
129	23.200	19.60	0.01	5.66	52.66	8.13	2.40	0.00	2.40	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
130	23.100	19.60	0.01	5.66	52.67	8.14	2.42	0.00	2.42	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
131	23.000	19.60	0.01	5.66	52.68	8.15	2.44	0.00	2.44	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
132	22.900	19.60	0.01	5.66	52.69	8.16	2.46	0.00	2.46	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
133	22.800	19.60	0.01	5.66	52.70	8.17	2.49	0.00	2.49	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
134	22.700	19.60	0.01	5.65	52.71	8.18	2.51	0.00	2.51	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
135	22.600	19.60	0.01	5.65	52.72	8.19	2.53	0.00	2.53	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
136	22.500	19.60	0.01	5.65	52.73	8.19	2.55	0.00	2.55	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
137	22.400	19.60	0.01	5.65	52.74	8.20	2.57	0.00	2.57	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
138	22.300	19.60	0.01	5.65	52.74	8.21	2.59	0.00	2.59	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
139	22.200	19.60	0.01	5.65	52.75	8.22	2.61	0.00	2.61	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
140	22.100	19.60	0.01	5.65	52.76	8.23	2.63	0.00	2.63	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
141	22.000	19.60	0.01	5.65	52.77	8.23	2.65	0.00	2.65	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
142	21.900	19.60	0.01	5.65	52.78	8.24	2.68	0.00	2.68	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
143	21.800	19.60	0.01	5.65	52.79	8.25	2.70	0.00	2.70	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
144	21.700	19.60	0.01	5.65	52.80	8.25	2.72	0.00	2.72	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
145	21.600	19.60	0.01	5.65	52.81	8.26	2.74	0.00	2.74	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
146	21.500	19.60	0.01	5.65	52.82	8.27	2.76	0.00	2.76	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
147	21.400	19.60	0.01	5.65	52.83	8.27	2.78	0.00	2.78	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
148	21.300	19.60	0.01	5.65	52.83	8.28	2.80	0.00	2.80	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
149	21.200	19.60	0.01	5.65	52.84	8.28	2.82	0.00	2.82	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
150	21.100	19.60	0.01	5.65	52.85	8.29	2.84	0.00	2.84	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
151	21.000	19.60	0.01	5.65	52.86	8.29	2.86	0.00	2.86	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
152	20.900	19.60	0.01	5.65	52.87	8.30	2.88	0.00	2.88	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
153	20.800	19.60	0.01	5.65	52.88	8.30	2.89	0.00	2.89	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
154	20.700	19.60	0.01	5.65	52.89	8.31	2.91	0.00	2.91	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
155	20.600	19.60	0.01	5.65	52.90	8.31	2.93	0.00	2.93	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
156	20.500	19.60	0.01	5.65	52.90	8.32	2.95	0.00	2.95	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
157	20.400	19.60	0.01	5.65	52.91	8.32	2.97	0.00	2.97	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
158	20.300	19.60	0.01	5.64	52.92	8.33	2.99	0.00	2.99	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 5 BL03 to SNG Ditch Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
159	UPR RCH	0.31699	19.60	0.01	5.64	52.92	8.33	2.99	0.00	2.99	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00
EACH	INCR	0.00481	22.03	0.00	5.70	58.04	5.00	2.99	0.00			0.49	0.00	0.00	0.00	0.00	0.00	

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
159	20.30	20.20	0.32180	0.1	0.26437	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.264
160	20.20	20.10	0.32660	0.1	0.26832	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.268
161	20.10	20.00	0.33141	0.1	0.27227	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.272
162	20.00	19.90	0.33622	0.1	0.27622	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.276
163	19.90	19.80	0.34102	0.1	0.28017	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.280
164	19.80	19.70	0.34583	0.1	0.28412	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.284
165	19.70	19.60	0.35064	0.1	0.28807	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.288
166	19.60	19.50	0.35544	0.1	0.29202	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.292
167	19.50	19.40	0.36025	0.1	0.29597	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.296
TOT						0.04			1095.48	6444.00					
AVG					0.2798		0.17	7.16			1.22				
CUM						0.82									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
159	20.200	9.16	6.47	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	20.100	9.16	6.49	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	20.000	9.16	6.52	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	19.900	9.16	6.55	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163	19.800	9.16	6.57	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	19.700	9.16	6.60	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	19.600	9.16	6.62	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

166	19.500	9.16	6.65	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167	19.400	9.16	6.67	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.62	0.04	0.05	0.00	0.00	0.00	0.00	2.19			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
159	20.200	19.60	0.01	5.65	53.00	8.25	2.99	0.00	2.99	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
160	20.100	19.60	0.01	5.65	53.07	8.17	2.99	0.00	2.99	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
161	20.000	19.60	0.01	5.65	53.14	8.10	2.99	0.00	2.99	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
162	19.900	19.60	0.01	5.65	53.21	8.03	2.98	0.00	2.98	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
163	19.800	19.60	0.01	5.65	53.28	7.97	2.98	0.00	2.98	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
164	19.700	19.60	0.01	5.65	53.35	7.91	2.98	0.00	2.98	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
165	19.600	19.60	0.01	5.65	53.41	7.86	2.98	0.00	2.98	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
166	19.500	19.60	0.01	5.65	53.48	7.80	2.98	0.00	2.98	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
167	19.400	19.60	0.01	5.65	53.54	7.75	2.98	0.00	2.98	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 7 SNG Ditch to Hwy434/I-12 Dich BL Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
189	UPR RCH	0.36025	19.60	0.01	5.65	53.54	7.75	2.98	0.00	2.98	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00
189	TRIB	0.00294	19.60	0.03	8.04	82.74	8.64	7.23	0.00	7.23	0.00	4.11	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
189	19.40	19.30	0.36319	0.1	0.29838	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.298
190	19.30	19.20	0.36319	0.1	0.29838	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.298
191	19.20	19.10	0.36319	0.1	0.29838	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.298
TOT						0.01			365.16	2148.00					
AVG					0.2984		0.17	7.16			1.22				
CUM						0.83									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
189	19.300	9.16	6.69	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	19.200	9.16	6.69	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
191	19.100	9.16	6.69	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.74	0.04	0.05	0.00	0.00	0.00	0.00	2.19			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
189	19.300	19.60	0.01	5.67	53.77	7.75	3.01	0.00	3.01	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
190	19.200	19.60	0.01	5.67	53.77	7.74	3.01	0.00	3.01	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
191	19.100	19.60	0.01	5.67	53.80	7.73	3.01	0.00	3.01	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 9 Hwy434/I-12DitchBL to BL04 Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM	TYPE	FLOW	TEMP	SALN	chloride	conduct	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NCM

NO.			deg C	ppt	mg/L	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL	
222	UPR RCH	0.36319	19.60	0.01	5.67	53.80	7.73	3.01	0.00	3.01	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00
222	TRIB	0.00371	19.60	0.10	18.39	214.98	8.57	21.46	0.00	21.46	0.00	16.43	0.00	0.00	0.00	0.00	0.00	0.00
223	WSTLD	0.00439	21.85	0.02	7.40	62.60	4.24	3.89	0.00	3.89	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
222	19.10	19.00	0.36689	0.4	0.30142	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.301
223	19.00	18.90	0.37128	1.6	0.30503	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.305
TOT						0.01			243.44	1432.00					
AVG					0.3032		0.17	7.16			1.22				
CUM						0.84									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
222	19.000	9.16	6.70	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	18.900	9.16	6.73	0.04	0.05	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.77	0.04	0.05	0.00	0.00	0.00	0.00	2.19			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
222	19.000	19.60	0.01	5.80	55.40	7.72	3.20	0.00	3.20	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
223	18.900	19.60	0.01	5.82	55.48	7.67	3.20	0.00	3.20	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 10 BL04 to Keller Barn Ditch Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
224	UPR RCH	0.37128	19.60	0.01	5.82	55.48	7.67	3.20	0.00	3.20	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
224	18.90	18.80	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	35.34	0.000	0.500	0.095
225	18.80	18.70	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	70.68	0.000	0.500	0.095
226	18.70	18.60	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	106.02	0.001	0.500	0.095
227	18.60	18.50	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	141.36	0.001	0.500	0.095
228	18.50	18.40	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	176.70	0.001	0.500	0.095
229	18.40	18.30	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	212.04	0.001	0.500	0.095
230	18.30	18.20	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	247.38	0.001	0.500	0.095
231	18.20	18.10	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	282.72	0.002	0.500	0.095
232	18.10	18.00	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	318.06	0.002	0.500	0.095
233	18.00	17.90	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	353.40	0.002	0.500	0.095
234	17.90	17.80	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	388.74	0.002	0.500	0.095
235	17.80	17.70	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	424.08	0.002	0.500	0.095
236	17.70	17.60	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	459.42	0.003	0.500	0.095
237	17.60	17.50	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	494.76	0.003	0.500	0.095
238	17.50	17.40	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	530.10	0.003	0.500	0.095
239	17.40	17.30	0.37128	1.6	0.09505	0.01	0.42	9.30	390.60	930.00	3.91	565.44	0.003	0.500	0.095
TOT						0.19			6249.60	14880.00					
AVG					0.0951		0.42	9.30			3.91				
CUM						1.03									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
224	18.800	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225	18.700	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
226	18.600	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
227	18.500	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
228	18.400	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
229	18.300	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
230	18.200	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
231	18.100	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
232	18.000	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
233	17.900	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
234	17.800	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
235	17.700	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
236	17.600	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
237	17.500	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
238	17.400	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
239	17.300	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.20	0.03	0.05	0.00	0.00	0.00	0.00	1.69			0.07	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
224	18.800	19.60	0.01	5.82	55.48	7.66	3.24	0.00	3.24	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
225	18.700	19.60	0.01	5.82	55.48	7.65	3.27	0.00	3.27	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
226	18.600	19.60	0.01	5.82	55.48	7.64	3.31	0.00	3.31	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
227	18.500	19.60	0.01	5.82	55.48	7.63	3.34	0.00	3.34	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
228	18.400	19.60	0.01	5.82	55.48	7.63	3.37	0.00	3.37	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
229	18.300	19.60	0.01	5.82	55.48	7.62	3.41	0.00	3.41	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
230	18.200	19.60	0.01	5.82	55.48	7.61	3.44	0.00	3.44	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
231	18.100	19.60	0.01	5.82	55.48	7.60	3.47	0.00	3.47	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
232	18.000	19.60	0.01	5.82	55.48	7.59	3.51	0.00	3.51	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
233	17.900	19.60	0.01	5.82	55.48	7.59	3.54	0.00	3.54	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
234	17.800	19.60	0.01	5.82	55.48	7.58	3.57	0.00	3.57	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
235	17.700	19.60	0.01	5.82	55.48	7.57	3.60	0.00	3.60	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
236	17.600	19.60	0.01	5.82	55.48	7.56	3.64	0.00	3.64	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
237	17.500	19.60	0.01	5.82	55.48	7.56	3.67	0.00	3.67	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
238	17.400	19.60	0.01	5.82	55.48	7.55	3.70	0.00	3.70	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
239	17.300	19.60	0.01	5.82	55.48	7.54	3.74	0.00	3.74	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 12 KellerBarnDitchToBeauVillageDich Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
249	UPR RCH	0.37128	19.60	0.01	5.82	55.48	7.54	3.74	0.00	3.74	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00
249	TRIB	0.00281	19.60	0.01	5.74	53.41	8.91	0.88	0.00	0.88	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00
272	WSTLD	0.00003	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
249	17.30	17.20	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	600.78	0.003	0.500	0.096
250	17.20	17.10	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	636.12	0.004	0.500	0.096
251	17.10	17.00	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	671.46	0.004	0.500	0.096
252	17.00	16.90	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	706.80	0.004	0.500	0.096
253	16.90	16.80	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	742.14	0.004	0.500	0.096
254	16.80	16.70	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	777.48	0.004	0.500	0.096
255	16.70	16.60	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	812.82	0.005	0.500	0.096
256	16.60	16.50	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	848.16	0.005	0.500	0.096
257	16.50	16.40	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	883.50	0.005	0.500	0.096
258	16.40	16.30	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	918.84	0.005	0.500	0.096
259	16.30	16.20	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	954.18	0.005	0.500	0.096
260	16.20	16.10	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	989.52	0.006	0.500	0.096
261	16.10	16.00	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	1024.86	0.006	0.500	0.096

262	16.00	15.90	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	1060.20	0.006	0.500	0.096
263	15.90	15.80	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	1095.54	0.006	0.500	0.096
264	15.80	15.70	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	1130.88	0.006	0.500	0.096
265	15.70	15.60	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	1166.22	0.007	0.500	0.096
266	15.60	15.50	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	1201.56	0.007	0.500	0.096
267	15.50	15.40	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	1236.90	0.007	0.500	0.096
268	15.40	15.30	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	1272.24	0.007	0.500	0.096
269	15.30	15.20	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	1307.58	0.007	0.500	0.096
270	15.20	15.10	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	1342.92	0.008	0.500	0.096
271	15.10	15.00	0.37409	1.5	0.09577	0.01	0.42	9.30	390.60	930.00	3.91	1378.26	0.008	0.500	0.096
272	15.00	14.90	0.37412	1.6	0.09578	0.01	0.42	9.30	390.60	930.00	3.91	1413.60	0.008	0.500	0.096
273	14.90	14.80	0.37412	1.6	0.09578	0.01	0.42	9.30	390.60	930.00	3.91	1448.94	0.008	0.500	0.096
274	14.80	14.70	0.37412	1.6	0.09578	0.01	0.42	9.30	390.60	930.00	3.91	1484.28	0.008	0.500	0.096
275	14.70	14.60	0.37412	1.6	0.09578	0.01	0.42	9.30	390.60	930.00	3.91	1519.62	0.009	0.500	0.096
TOT						0.33			10546.20	25110.00					
AVG					0.0958		0.42	9.30			3.91				
CUM						1.36									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
249	17.200	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250	17.100	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
251	17.000	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
252	16.900	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
253	16.800	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
254	16.700	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255	16.600	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
256	16.500	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
257	16.400	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
258	16.300	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
259	16.200	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
260	16.100	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
261	16.000	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
262	15.900	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
263	15.800	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
264	15.700	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
265	15.600	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
266	15.500	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
267	15.400	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
268	15.300	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
269	15.200	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270	15.100	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
271	15.000	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
272	14.900	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273	14.800	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	14.700	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
275	14.600	9.16	2.18	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.20	0.03	0.05	0.00	0.00	0.00	0.00	1.69			0.07	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* $g/m^2/d$ ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NCM
249	17.200	19.60	0.01	5.82	55.47	7.55	3.75	0.00	3.75	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
250	17.100	19.60	0.01	5.82	55.47	7.54	3.78	0.00	3.78	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
251	17.000	19.60	0.01	5.82	55.47	7.53	3.81	0.00	3.81	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
252	16.900	19.60	0.01	5.82	55.47	7.53	3.85	0.00	3.85	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
253	16.800	19.60	0.01	5.82	55.47	7.52	3.88	0.00	3.88	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
254	16.700	19.60	0.01	5.82	55.47	7.52	3.91	0.00	3.91	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
255	16.600	19.60	0.01	5.82	55.47	7.51	3.95	0.00	3.95	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
256	16.500	19.60	0.01	5.82	55.47	7.51	3.98	0.00	3.98	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
257	16.400	19.60	0.01	5.82	55.47	7.50	4.01	0.00	4.01	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
258	16.300	19.60	0.01	5.82	55.47	7.49	4.04	0.00	4.04	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
259	16.200	19.60	0.01	5.82	55.47	7.49	4.08	0.00	4.08	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
260	16.100	19.60	0.01	5.82	55.47	7.48	4.11	0.00	4.11	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
261	16.000	19.60	0.01	5.82	55.47	7.48	4.14	0.00	4.14	0.00	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
262	15.900	19.60	0.01	5.82	55.47	7.47	4.17	0.00	4.17	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
263	15.800	19.60	0.01	5.82	55.47	7.47	4.21	0.00	4.21	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
264	15.700	19.60	0.01	5.82	55.47	7.46	4.24	0.00	4.24	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
265	15.600	19.60	0.01	5.82	55.47	7.46	4.27	0.00	4.27	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
266	15.500	19.60	0.01	5.82	55.47	7.46	4.30	0.00	4.30	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
267	15.400	19.60	0.01	5.82	55.47	7.45	4.34	0.00	4.34	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
268	15.300	19.60	0.01	5.82	55.47	7.45	4.37	0.00	4.37	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

269	15.200	19.60	0.01	5.82	55.47	7.44	4.40	0.00	4.40	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
270	15.100	19.60	0.01	5.82	55.47	7.44	4.43	0.00	4.43	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
271	15.000	19.60	0.01	5.82	55.47	7.43	4.47	0.00	4.47	0.00	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
272	14.900	19.60	0.01	5.82	55.52	7.43	4.50	0.00	4.50	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
273	14.800	19.60	0.01	5.82	55.52	7.43	4.53	0.00	4.53	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
274	14.700	19.60	0.01	5.82	55.52	7.42	4.56	0.00	4.56	0.00	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
275	14.600	19.60	0.01	5.83	55.63	7.42	4.60	0.00	4.60	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 14 Beau Village Ditch to BL05 Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
306	UPR RCH	0.37412	19.60	0.01	5.83	55.63	7.42	4.60	0.00	4.60	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00
306	TRIB	0.00411	19.60	0.13	22.31	265.03	8.99	4.07	0.00	4.07	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
306	14.60	14.50	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	1590.30	0.009	0.500	0.097
307	14.50	14.40	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	1660.98	0.009	0.500	0.097
308	14.40	14.30	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	1731.66	0.010	0.500	0.097
309	14.30	14.20	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	1802.34	0.010	0.500	0.097
310	14.20	14.10	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	1873.02	0.011	0.500	0.097
311	14.10	14.00	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	1943.70	0.011	0.500	0.097
312	14.00	13.90	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	2014.38	0.011	0.500	0.097
313	13.90	13.80	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	2085.06	0.012	0.500	0.097
314	13.80	13.70	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	2155.74	0.012	0.500	0.097
315	13.70	13.60	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	2226.42	0.013	0.500	0.097
316	13.60	13.50	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	2297.10	0.013	0.500	0.097
317	13.50	13.40	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	2367.78	0.013	0.500	0.097
318	13.40	13.30	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	2438.46	0.014	0.500	0.097
319	13.30	13.20	0.37823	1.9	0.09683	0.01	0.42	9.30	390.60	930.00	3.91	2509.14	0.014	0.500	0.097
TOT						0.17			5468.40	13020.00					
AVG					0.0968		0.42	9.30			3.91				
CUM						1.53									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
306	14.500	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
307	14.400	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
308	14.300	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
309	14.200	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
310	14.100	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
311	14.000	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
312	13.900	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
313	13.800	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
314	13.700	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
315	13.600	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
316	13.500	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
317	13.400	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
318	13.300	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
319	13.200	9.16	2.19	0.03	0.05	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.21	0.03	0.05	0.00	0.00	0.00	0.00	1.69			0.07	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
306	14.500	19.60	0.01	6.00	57.80	7.43	4.63	0.00	4.63	0.00	1.09	0.00	0.00	0.00	0.00	0.71	0.00	0.	0.00
307	14.400	19.60	0.01	6.00	57.80	7.43	4.66	0.00	4.66	0.00	1.11	0.00	0.00	0.00	0.00	1.43	0.00	0.	0.00
308	14.300	19.60	0.01	6.00	57.80	7.43	4.70	0.00	4.70	0.00	1.13	0.00	0.00	0.00	0.00	2.14	0.00	0.	0.00
309	14.200	19.60	0.01	6.00	57.80	7.42	4.74	0.00	4.74	0.00	1.15	0.00	0.00	0.00	0.00	2.86	0.00	0.	0.00
310	14.100	19.60	0.01	6.00	57.80	7.42	4.77	0.00	4.77	0.00	1.17	0.00	0.00	0.00	0.00	3.57	0.00	0.	0.00

311	14.000	19.60	0.01	6.00	57.80	7.42	4.81	0.00	4.81	0.00	1.19	0.00	0.00	0.00	0.00	4.29	0.00	0.	0.00
312	13.900	19.60	0.01	6.00	57.80	7.42	4.85	0.00	4.85	0.00	1.21	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00
313	13.800	19.60	0.01	6.00	57.80	7.42	4.88	0.00	4.88	0.00	1.23	0.00	0.00	0.00	0.00	5.71	0.00	0.	0.00
314	13.700	19.60	0.01	6.00	57.80	7.42	4.92	0.00	4.92	0.00	1.25	0.00	0.00	0.00	0.00	6.43	0.00	0.	0.00
315	13.600	19.60	0.01	6.00	57.80	7.42	4.96	0.00	4.96	0.00	1.27	0.00	0.00	0.00	0.00	7.14	0.00	0.	0.00
316	13.500	19.60	0.01	6.00	57.80	7.42	4.99	0.00	4.99	0.00	1.29	0.00	0.00	0.00	0.00	7.86	0.00	0.	0.00
317	13.400	19.60	0.01	6.00	57.80	7.42	5.03	0.00	5.03	0.00	1.31	0.00	0.00	0.00	0.00	8.57	0.00	0.	0.00
318	13.300	19.60	0.01	6.00	57.80	7.43	5.07	0.00	5.07	0.00	1.33	0.00	0.00	0.00	0.00	9.29	0.00	0.	0.00
319	13.200	19.60	0.01	6.00	57.80	7.47	5.10	0.00	5.10	0.00	1.36	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 15 BL05 to Hwy 190 Ditch BL — Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
320	UPR RCH	0.37823	19.60	0.01	6.00	57.80	7.47	5.10	0.00	5.10	0.00	1.36	0.00	0.00	0.00	10.00	0.00	0.00
325	WSTLD	0.00006	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
320	13.20	13.10	0.37823	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	2797.56	0.001	0.500	0.004
321	13.10	13.00	0.37823	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	3085.98	0.001	0.500	0.004
322	13.00	12.90	0.37823	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	3374.40	0.001	0.500	0.004
323	12.90	12.80	0.37823	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	3662.82	0.001	0.500	0.004
324	12.80	12.70	0.37823	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	3951.24	0.001	0.500	0.004
325	12.70	12.60	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	4239.66	0.001	0.500	0.004
326	12.60	12.50	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	4528.08	0.001	0.500	0.004
327	12.50	12.40	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	4816.50	0.001	0.500	0.004
328	12.40	12.30	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	5104.92	0.001	0.500	0.004
329	12.30	12.20	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	5393.34	0.001	0.500	0.004
330	12.20	12.10	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	5681.76	0.001	0.500	0.004
331	12.10	12.00	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	5970.18	0.001	0.500	0.004
332	12.00	11.90	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	6258.60	0.002	0.500	0.004
333	11.90	11.80	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	6547.02	0.002	0.500	0.004
334	11.80	11.70	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	6835.44	0.002	0.500	0.004
335	11.70	11.60	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	7123.86	0.002	0.500	0.004
336	11.60	11.50	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	7412.28	0.002	0.500	0.004
337	11.50	11.40	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	7700.70	0.002	0.500	0.004
338	11.40	11.30	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	7989.12	0.002	0.500	0.004
339	11.30	11.20	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	8277.54	0.002	0.500	0.004
340	11.20	11.10	0.37829	1.9	0.00415	0.28	3.60	25.30	9108.00	2530.00	91.08	8565.96	0.002	0.500	0.004
TOT						5.85			191267.98	53130.00					
AVG					0.0042		3.60	25.30			91.08				
CUM						7.38									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
320	13.100	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
321	13.000	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
322	12.900	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
323	12.800	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
324	12.700	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
325	12.600	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
326	12.500	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
327	12.400	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
328	12.300	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
329	12.200	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
330	12.100	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
331	12.000	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
332	11.900	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
333	11.800	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
334	11.700	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
335	11.600	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
336	11.500	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
337	11.400	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
338	11.300	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
339	11.200	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
340	11.100	9.16	0.19	0.04	0.05	0.00	0.00	0.00	0.00	1.10	1.10	1.10	0.05	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE	0.19	0.05	0.05	0.00	0.00	0.00	0.00	1.12		0.05	0.05	0.00	0.00	0.00	0.00		0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
320	13.100	19.60	0.01	6.00	57.80	7.54	5.11	0.00	5.11	0.00	1.37	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
321	13.000	19.60	0.01	6.00	57.81	7.59	5.11	0.00	5.11	0.00	1.38	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
322	12.900	19.60	0.01	6.00	57.81	7.64	5.11	0.00	5.11	0.00	1.39	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
323	12.800	19.60	0.01	6.00	57.83	7.69	5.12	0.00	5.12	0.00	1.40	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
324	12.700	19.60	0.01	6.01	57.86	7.73	5.12	0.00	5.12	0.00	1.41	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
325	12.600	19.60	0.01	6.01	57.90	7.77	5.12	0.00	5.12	0.00	1.42	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
326	12.500	19.60	0.01	6.01	57.91	7.81	5.13	0.00	5.13	0.00	1.43	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
327	12.400	19.60	0.01	6.01	57.91	7.85	5.13	0.00	5.13	0.00	1.44	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
328	12.300	19.60	0.01	6.01	57.91	7.88	5.13	0.00	5.13	0.00	1.45	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
329	12.200	19.60	0.01	6.01	57.91	7.92	5.13	0.00	5.13	0.00	1.46	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
330	12.100	19.60	0.01	6.01	57.92	7.95	5.14	0.00	5.14	0.00	1.47	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
331	12.000	19.60	0.01	6.01	57.92	7.98	5.14	0.00	5.14	0.00	1.47	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
332	11.900	19.60	0.01	6.01	57.94	8.00	5.14	0.00	5.14	0.00	1.48	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
333	11.800	19.60	0.01	6.02	57.97	8.03	5.14	0.00	5.14	0.00	1.49	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
334	11.700	19.60	0.01	6.02	58.03	8.05	5.15	0.00	5.15	0.00	1.50	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
335	11.600	19.60	0.01	6.03	58.13	8.07	5.15	0.00	5.15	0.00	1.51	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
336	11.500	19.60	0.01	6.06	58.31	8.09	5.15	0.00	5.15	0.00	1.52	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
337	11.400	19.60	0.01	6.10	58.65	8.10	5.16	0.00	5.16	0.00	1.53	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
338	11.300	19.60	0.01	6.17	59.27	8.09	5.17	0.00	5.17	0.00	1.55	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
339	11.200	19.60	0.01	6.30	60.41	8.06	5.18	0.00	5.18	0.00	1.59	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
340	11.100	19.60	0.01	6.54	62.49	7.99	5.21	0.00	5.21	0.00	1.64	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 17 Hwy190DitchBLtoHwy434/190DitchBL Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
363	UPR RCH	0.37829	19.60	0.01	6.54	62.49	7.99	5.21	0.00	5.21	0.00	1.64	0.00	0.00	0.00	10.00	0.00	0.00
363	TRIB	0.00593	19.60	0.20	33.22	404.40	7.90	23.81	0.00	23.81	0.00	21.98	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
363	11.10	11.09	0.38423	2.7	0.00422	0.03	3.60	25.30	910.80	253.00	91.08	8594.80	0.002	0.500	0.004
364	11.09	11.08	0.38423	2.7	0.00422	0.03	3.60	25.30	910.80	253.00	91.08	8623.64	0.002	0.500	0.004
365	11.08	11.07	0.38423	2.7	0.00422	0.03	3.60	25.30	910.80	253.00	91.08	8652.48	0.002	0.500	0.004
366	11.07	11.06	0.38423	2.7	0.00422	0.03	3.60	25.30	910.80	253.00	91.08	8681.33	0.002	0.500	0.004
367	11.06	11.05	0.38423	2.7	0.00422	0.03	3.60	25.30	910.80	253.00	91.08	8710.17	0.002	0.500	0.004
368	11.05	11.04	0.38423	2.7	0.00422	0.03	3.60	25.30	910.80	253.00	91.08	8739.01	0.002	0.500	0.004
369	11.04	11.03	0.38423	2.7	0.00422	0.03	3.60	25.30	910.80	253.00	91.08	8767.85	0.002	0.500	0.004
370	11.03	11.02	0.38423	2.7	0.00422	0.03	3.60	25.30	910.80	253.00	91.08	8796.69	0.002	0.500	0.004
371	11.02	11.01	0.38423	2.7	0.00422	0.03	3.60	25.30	910.80	253.00	91.08	8825.54	0.002	0.500	0.004
372	11.01	11.00	0.38423	2.7	0.00422	0.03	3.60	25.30	910.80	253.00	91.08	8854.38	0.002	0.500	0.004
TOT						0.27			9108.00	2530.00					
AVG					0.0042		3.60	25.30			91.08				
CUM						7.65									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
363	11.090	9.10	0.19	0.04	0.05	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.05	0.05	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
364	11.080	9.03	0.20	0.05	0.05	0.00	0.00	0.00	0.00	2.30	2.30	2.30	0.05	0.05	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
365	11.070	8.96	0.20	0.05	0.05	0.00	0.00	0.00	0.00	2.35	2.35	2.35	0.05	0.05	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
366	11.060	8.90	0.20	0.05	0.05	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.06	0.05	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
367	11.050	8.84	0.20	0.05	0.05	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.06	0.05	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
368	11.040	8.77	0.20	0.05	0.05	0.00	0.00	0.00	0.00	2.52	2.52	2.52	0.06	0.05	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
369	11.030	8.71	0.20	0.05	0.05	0.00	0.00	0.00	0.00	2.58	2.58	2.58	0.06	0.05	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
370	11.020	8.65	0.20	0.05	0.05	0.00	0.00	0.00	0.00	2.64	2.64	2.64	0.06	0.05	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
371	11.010	8.59	0.21	0.05	0.05	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.06	0.05	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00

372	11.000	8.53	0.21	0.05	0.05	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.19	0.05	0.05	0.00	0.00	0.00	0.00	2.25			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
363	11.090	19.97	0.01	6.78	64.58	7.90	5.23	0.00	5.23	0.00	1.69	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
364	11.080	20.34	0.01	6.81	64.69	7.88	5.22	0.00	5.22	0.00	1.68	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
365	11.070	20.71	0.01	6.84	64.82	7.85	5.20	0.00	5.20	0.00	1.67	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
366	11.060	21.08	0.01	6.88	64.95	7.83	5.18	0.00	5.18	0.00	1.65	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
367	11.050	21.45	0.01	6.91	65.09	7.80	5.17	0.00	5.17	0.00	1.64	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
368	11.040	21.82	0.01	6.95	65.25	7.77	5.15	0.00	5.15	0.00	1.63	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
369	11.030	22.19	0.01	7.00	65.41	7.74	5.13	0.00	5.13	0.00	1.61	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
370	11.020	22.56	0.01	7.05	65.60	7.71	5.11	0.00	5.11	0.00	1.59	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
371	11.010	22.93	0.01	7.10	65.79	7.67	5.09	0.00	5.09	0.00	1.58	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
372	11.000	23.30	0.01	7.16	66.01	7.64	5.08	0.00	5.08	0.00	1.56	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 19 Hwy 434/190 Ditch BL to BL06 Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
395	UPR RCH	0.38423	23.30	0.01	7.16	66.01	7.64	5.08	0.00	5.08	0.00	1.56	0.00	0.00	0.00	10.00	0.00	0.00
395	TRIB	0.00285	23.30	0.02	6.59	64.29	8.23	2.48	0.00	2.48	0.00	1.55	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
395	11.00	10.99	0.38708	2.7	0.00425	0.03	3.60	25.30	910.80	253.00	91.08	8883.22	0.002	0.500	0.004
396	10.99	10.98	0.38708	2.7	0.00425	0.03	3.60	25.30	910.80	253.00	91.08	8912.06	0.002	0.500	0.004
397	10.98	10.97	0.38708	2.7	0.00425	0.03	3.60	25.30	910.80	253.00	91.08	8940.90	0.002	0.500	0.004
398	10.97	10.96	0.38708	2.7	0.00425	0.03	3.60	25.30	910.80	253.00	91.08	8969.74	0.002	0.500	0.004
399	10.96	10.95	0.38708	2.7	0.00425	0.03	3.60	25.30	910.80	253.00	91.08	8998.59	0.002	0.500	0.004
400	10.95	10.94	0.38708	2.7	0.00425	0.03	3.60	25.30	910.80	253.00	91.08	9027.43	0.002	0.500	0.004
401	10.94	10.93	0.38708	2.7	0.00425	0.03	3.60	25.30	910.80	253.00	91.08	9056.27	0.002	0.500	0.004
402	10.93	10.92	0.38708	2.7	0.00425	0.03	3.60	25.30	910.80	253.00	91.08	9085.11	0.002	0.500	0.004
403	10.92	10.91	0.38708	2.7	0.00425	0.03	3.60	25.30	910.80	253.00	91.08	9113.95	0.002	0.500	0.004
404	10.91	10.90	0.38708	2.7	0.00425	0.03	3.60	25.30	910.80	253.00	91.08	9142.79	0.002	0.500	0.004
TOT						0.27			9108.00	2530.00					
AVG					0.0042		3.60	25.30			91.08				
CUM						7.92									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
395	10.990	8.53	0.21	0.05	0.05	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
396	10.980	8.53	0.21	0.05	0.05	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
397	10.970	8.53	0.21	0.05	0.05	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
398	10.960	8.53	0.21	0.05	0.05	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
399	10.950	8.53	0.21	0.05	0.05	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
400	10.940	8.53	0.21	0.05	0.05	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
401	10.930	8.53	0.21	0.05	0.05	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
402	10.920	8.53	0.21	0.05	0.05	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
403	10.910	8.53	0.21	0.05	0.05	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
404	10.900	8.53	0.21	0.05	0.05	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.19	0.05	0.05	0.00	0.00	0.00	0.00	2.25			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM	ENDING	TEMP	SALN	chloride	conduct	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM

NO.	DIST	DEG C	PPT	mg/L	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL	
395	10.990	23.30	0.01	7.22	66.24	7.60	5.06	0.00	5.06	0.00	1.54	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
396	10.980	23.30	0.02	7.28	66.49	7.56	5.04	0.00	5.04	0.00	1.52	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
397	10.970	23.30	0.02	7.36	66.77	7.51	5.02	0.00	5.02	0.00	1.49	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
398	10.960	23.30	0.02	7.44	67.07	7.47	5.00	0.00	5.00	0.00	1.47	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
399	10.950	23.30	0.02	7.52	67.39	7.42	4.99	0.00	4.99	0.00	1.44	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
400	10.940	23.30	0.02	7.61	67.74	7.36	4.97	0.00	4.97	0.00	1.42	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
401	10.930	23.30	0.02	7.71	68.12	7.30	4.95	0.00	4.95	0.00	1.39	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
402	10.920	23.30	0.02	7.82	68.53	7.24	4.93	0.00	4.93	0.00	1.36	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
403	10.910	23.30	0.02	7.94	68.98	7.17	4.91	0.00	4.91	0.00	1.32	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
404	10.900	23.30	0.02	8.07	69.47	7.10	4.89	0.00	4.89	0.00	1.29	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 20 BL06 to confluence with BBB Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
405	UPR RCH	0.38708	23.30	0.02	8.07	69.47	7.10	4.89	0.00	4.89	0.00	1.29	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
405	10.90	10.80	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	9814.63	0.002	2.000	0.003
406	10.80	10.70	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	10486.47	0.002	2.000	0.003
407	10.70	10.60	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	11158.31	0.002	2.000	0.003
408	10.60	10.50	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	11830.15	0.002	2.000	0.003
409	10.50	10.40	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	12501.99	0.002	2.000	0.003
410	10.40	10.30	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	13173.83	0.002	2.000	0.003
411	10.30	10.20	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	13845.67	0.002	2.000	0.003
412	10.20	10.10	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	14517.51	0.002	2.000	0.003
413	10.10	10.00	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	15189.35	0.002	2.000	0.003
414	10.00	9.90	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	15861.19	0.003	2.000	0.003
415	9.90	9.80	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	16533.03	0.003	2.000	0.003
416	9.80	9.70	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	17204.87	0.003	2.000	0.003
417	9.70	9.60	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	17876.71	0.003	2.000	0.003
418	9.60	9.50	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	18548.55	0.003	2.000	0.004
419	9.50	9.40	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	19220.39	0.003	2.000	0.004
420	9.40	9.30	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	19892.23	0.003	2.000	0.004
421	9.30	9.20	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	20564.07	0.003	2.000	0.004
422	9.20	9.10	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	21235.91	0.003	2.000	0.004
423	9.10	9.00	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	21907.75	0.003	2.000	0.004
424	9.00	8.90	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	22579.59	0.004	2.000	0.004
425	8.90	8.80	0.38708	2.7	0.00278	0.42	3.15	44.20	13923.00	4420.00	139.23	23251.43	0.004	2.000	0.004
TOT						8.74			292383.03	92820.00					
AVG					0.0028		3.15	44.20			139.23				
CUM						16.67									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
405	10.800	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
406	10.700	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
407	10.600	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
408	10.500	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
409	10.400	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
410	10.300	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
411	10.200	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
412	10.100	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
413	10.000	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
414	9.900	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
415	9.800	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
416	9.700	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
417	9.600	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
418	9.500	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
419	9.400	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
420	9.300	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
421	9.200	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
422	9.100	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
423	9.000	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00

424	8.900	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
425	8.800	8.53	0.24	0.05	0.05	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.11	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.22	0.04	0.05	0.00	0.00	0.00	0.00	2.62			0.09	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
405	10.800	23.30	0.02	8.21	69.98	7.03	4.87	0.00	4.87	0.00	1.25	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
406	10.700	23.30	0.02	8.45	70.91	6.92	4.84	0.00	4.84	0.00	1.19	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
407	10.600	23.30	0.02	8.73	71.98	6.81	4.81	0.00	4.81	0.00	1.14	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
408	10.500	23.30	0.02	9.05	73.19	6.72	4.78	0.00	4.78	0.00	1.09	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
409	10.400	23.30	0.02	9.42	74.57	6.63	4.76	0.00	4.76	0.00	1.04	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
410	10.300	23.30	0.02	9.83	76.14	6.55	4.74	0.00	4.74	0.00	1.00	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
411	10.200	23.30	0.02	10.31	77.93	6.48	4.72	0.00	4.72	0.00	0.95	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
412	10.100	23.30	0.02	10.85	79.97	6.42	4.70	0.00	4.70	0.00	0.92	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
413	10.000	23.30	0.02	11.46	82.29	6.36	4.69	0.00	4.69	0.00	0.88	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
414	9.900	23.30	0.02	12.16	84.94	6.30	4.68	0.00	4.68	0.00	0.85	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
415	9.800	23.30	0.03	12.96	87.95	6.26	4.67	0.00	4.67	0.00	0.82	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
416	9.700	23.30	0.03	13.86	91.38	6.21	4.67	0.00	4.67	0.00	0.79	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
417	9.600	23.30	0.03	14.90	95.29	6.18	4.68	0.00	4.68	0.00	0.77	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
418	9.500	23.30	0.03	16.07	99.75	6.15	4.69	0.00	4.69	0.00	0.76	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
419	9.400	23.30	0.03	17.41	104.82	6.13	4.71	0.00	4.71	0.00	0.75	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
420	9.300	23.30	0.04	18.94	110.59	6.11	4.73	0.00	4.73	0.00	0.74	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
421	9.200	23.30	0.04	20.68	117.17	6.10	4.76	0.00	4.76	0.00	0.74	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
422	9.100	23.30	0.04	22.66	124.67	6.10	4.81	0.00	4.81	0.00	0.74	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
423	9.000	23.30	0.05	24.92	133.20	6.11	4.86	0.00	4.86	0.00	0.76	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
424	8.900	23.30	0.05	27.49	142.93	6.14	4.93	0.00	4.93	0.00	0.78	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
425	8.800	23.30	0.06	30.42	154.00	6.18	5.02	0.00	5.02	0.00	0.81	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 32 Big Branch Bayou to BL07 Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
616	UPR RCH	0.38708	23.30	0.06	30.42	154.00	6.18	5.02	0.00	5.02	0.00	0.81	0.00	0.00	0.00	10.00	0.00	0.00
616	TRIB	0.17432	23.30	0.06	31.36	158.77	6.21	5.17	0.00	5.17	0.00	0.92	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
616	8.80	8.79	0.56140	3.0	0.00266	0.04	2.56	82.30	2106.88	823.00	210.69	30400.75	0.003	3.000	0.004
617	8.79	8.78	0.56140	3.0	0.00266	0.04	2.56	82.30	2106.88	823.00	210.69	30525.85	0.003	3.000	0.004
618	8.78	8.77	0.56140	3.0	0.00266	0.04	2.56	82.30	2106.88	823.00	210.69	30650.94	0.003	3.000	0.004
619	8.77	8.76	0.56140	3.0	0.00266	0.04	2.56	82.30	2106.88	823.00	210.69	30776.04	0.003	3.000	0.004
620	8.76	8.75	0.56140	3.0	0.00266	0.04	2.56	82.30	2106.88	823.00	210.69	30901.13	0.003	3.000	0.004
621	8.75	8.74	0.56140	3.0	0.00266	0.04	2.56	82.30	2106.88	823.00	210.69	31026.23	0.003	3.000	0.004
622	8.74	8.73	0.56140	3.0	0.00266	0.04	2.56	82.30	2106.88	823.00	210.69	31151.33	0.003	3.000	0.004
623	8.73	8.72	0.56140	3.0	0.00266	0.04	2.56	82.30	2106.88	823.00	210.69	31276.42	0.003	3.000	0.004
624	8.72	8.71	0.56140	3.0	0.00266	0.04	2.56	82.30	2106.88	823.00	210.69	31401.52	0.003	3.000	0.004
625	8.71	8.70	0.56140	3.0	0.00266	0.04	2.56	82.30	2106.88	823.00	210.69	31526.61	0.003	3.000	0.004
TOT						0.43			21068.80	8230.00					
AVG					0.0027		2.56	82.30			210.69				
CUM						17.10									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
616	8.790	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
617	8.780	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
618	8.770	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
619	8.760	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
620	8.750	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
621	8.740	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
622	8.730	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00

623	8.720	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
624	8.710	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
625	8.700	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.27	0.05	0.05	0.00	0.00	0.00	0.00	4.38			0.13	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
616	8.790	23.30	0.06	32.06	160.22	6.20	5.07	0.00	5.07	0.00	0.83	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
617	8.780	23.30	0.06	32.27	160.92	6.21	5.07	0.00	5.07	0.00	0.83	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
618	8.770	23.30	0.06	32.48	161.64	6.21	5.07	0.00	5.07	0.00	0.82	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
619	8.760	23.30	0.06	32.70	162.36	6.21	5.07	0.00	5.07	0.00	0.82	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
620	8.750	23.30	0.06	32.92	163.08	6.22	5.07	0.00	5.07	0.00	0.81	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
621	8.740	23.30	0.06	33.14	163.81	6.22	5.07	0.00	5.07	0.00	0.81	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
622	8.730	23.30	0.06	33.36	164.55	6.23	5.07	0.00	5.07	0.00	0.81	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
623	8.720	23.30	0.06	33.58	165.30	6.23	5.07	0.00	5.07	0.00	0.80	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
624	8.710	23.30	0.06	33.81	166.05	6.24	5.06	0.00	5.06	0.00	0.80	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
625	8.700	23.30	0.06	34.03	166.81	6.24	5.06	0.00	5.06	0.00	0.79	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 33 BL07to confluence w/CypressBayou Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
626	UPR RCH	0.56140	23.30	0.06	34.03	166.81	6.24	5.06	0.00	5.06	0.00	0.79	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
626	8.70	8.60	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	32777.57	0.003	4.000	0.004
627	8.60	8.50	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	34028.54	0.004	4.000	0.004
628	8.50	8.40	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	35279.50	0.004	4.000	0.004
629	8.40	8.30	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	36530.46	0.004	4.000	0.004
630	8.30	8.20	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	37781.42	0.004	4.000	0.004
631	8.20	8.10	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	39032.38	0.004	4.000	0.004
632	8.10	8.00	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	40283.34	0.004	4.000	0.005
633	8.00	7.90	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	41534.30	0.004	4.000	0.005
634	7.90	7.80	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	42785.26	0.005	4.000	0.005
635	7.80	7.70	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	44036.22	0.005	4.000	0.005
636	7.70	7.60	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	45287.18	0.005	4.000	0.005
637	7.60	7.50	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	46538.14	0.005	4.000	0.005
638	7.50	7.40	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	47789.11	0.005	4.000	0.005
639	7.40	7.30	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	49040.07	0.005	4.000	0.005
640	7.30	7.20	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	50291.03	0.005	4.000	0.006
641	7.20	7.10	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	51541.99	0.005	4.000	0.006
642	7.10	7.00	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	52792.95	0.006	4.000	0.006
643	7.00	6.90	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	54043.91	0.006	4.000	0.006
644	6.90	6.80	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	55294.87	0.006	4.000	0.006
645	6.80	6.70	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	56545.83	0.006	4.000	0.006
646	6.70	6.60	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	57796.79	0.006	4.000	0.006
647	6.60	6.50	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	59047.75	0.006	4.000	0.006
648	6.50	6.40	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	60298.71	0.006	4.000	0.007
649	6.40	6.30	0.56140	3.0	0.00266	0.43	2.56	82.30	21068.80	8230.00	210.69	61549.68	0.006	4.000	0.007
TOT						10.42			505651.31	197520.00					
AVG					0.0027		2.56	82.30			210.69				
CUM						27.53									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
626	8.600	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
627	8.500	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
628	8.400	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
629	8.300	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00

630	8.200	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
631	8.100	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
632	8.000	8.53	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
633	7.900	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
634	7.800	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
635	7.700	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
636	7.600	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
637	7.500	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
638	7.400	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
639	7.300	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
640	7.200	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
641	7.100	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
642	7.000	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
643	6.900	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
644	6.800	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
645	6.700	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
646	6.600	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
647	6.500	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
648	6.400	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
649	6.300	8.52	0.29	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.27	0.05	0.05	0.00	0.00	0.00	0.00	1.25			0.13	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
626	8.600	23.30	0.07	35.00	170.04	6.27	5.06	0.00	5.06	0.00	0.77	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
627	8.500	23.30	0.07	36.79	175.99	6.32	5.06	0.00	5.06	0.00	0.74	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
628	8.400	23.30	0.07	38.69	182.34	6.37	5.07	0.00	5.07	0.00	0.72	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
629	8.300	23.30	0.08	40.72	189.11	6.41	5.07	0.00	5.07	0.00	0.69	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
630	8.200	23.30	0.08	42.88	196.34	6.45	5.08	0.00	5.08	0.00	0.67	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
631	8.100	23.30	0.09	45.19	204.04	6.49	5.09	0.00	5.09	0.00	0.65	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
632	8.000	23.30	0.09	47.65	212.26	6.52	5.10	0.00	5.10	0.00	0.63	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
633	7.900	23.30	0.10	50.28	221.03	6.55	5.11	0.00	5.11	0.00	0.62	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
634	7.800	23.30	0.10	53.08	230.37	6.57	5.13	0.00	5.13	0.00	0.60	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
635	7.700	23.30	0.11	56.07	240.35	6.60	5.15	0.00	5.15	0.00	0.59	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
636	7.600	23.30	0.11	59.26	250.98	6.62	5.17	0.00	5.17	0.00	0.59	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
637	7.500	23.30	0.12	62.66	262.33	6.63	5.20	0.00	5.20	0.00	0.58	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
638	7.400	23.30	0.13	66.28	274.43	6.65	5.23	0.00	5.23	0.00	0.58	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
639	7.300	23.30	0.13	70.15	287.34	6.66	5.26	0.00	5.26	0.00	0.59	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
640	7.200	23.30	0.14	74.28	301.11	6.66	5.30	0.00	5.30	0.00	0.60	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
641	7.100	23.30	0.15	78.68	315.79	6.67	5.35	0.00	5.35	0.00	0.61	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
642	7.000	23.30	0.16	83.37	331.45	6.67	5.40	0.00	5.40	0.00	0.62	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
643	6.900	23.30	0.17	88.37	348.16	6.66	5.46	0.00	5.46	0.00	0.64	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
644	6.800	23.30	0.18	93.71	365.98	6.66	5.52	0.00	5.52	0.00	0.67	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
645	6.700	23.30	0.19	99.41	384.99	6.64	5.59	0.00	5.59	0.00	0.70	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
646	6.600	23.30	0.20	105.48	405.26	6.63	5.67	0.00	5.67	0.00	0.74	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
647	6.500	23.30	0.22	111.96	426.88	6.61	5.76	0.00	5.76	0.00	0.78	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
648	6.400	23.30	0.23	118.87	449.95	6.59	5.86	0.00	5.86	0.00	0.84	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
649	6.300	23.30	0.24	126.24	474.55	6.56	5.97	0.00	5.97	0.00	0.90	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 39 Cypress Bayou to BL08 Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
715	UPR RCH	0.56140	23.30	0.24	126.24	474.55	6.56	5.97	0.00	5.97	0.00	0.90	0.00	0.00	0.00	10.00	0.00	0.00
715	TRIB	0.22378	23.30	0.25	131.44	494.25	6.54	6.06	0.00	6.06	0.00	0.95	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
715	6.30	6.20	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	70529.42	0.007	5.000	0.007
716	6.20	6.10	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	71664.55	0.007	5.000	0.007
TOT						0.67			45256.08	14936.00					
AVG					0.0035		3.03	74.68			226.28				
CUM						28.19									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
715	6.200	8.52	0.25	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
716	6.100	8.52	0.25	0.06	0.05	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.23	0.05	0.05	0.00	0.00	0.00	0.00	1.25			0.06	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
715	6.200	23.30	0.26	132.96	496.95	6.54	6.08	0.00	6.08	0.00	0.96	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
716	6.100	23.30	0.27	141.31	521.45	6.51	6.20	0.00	6.20	0.00	1.03	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 40 BL08 to BL09 Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
717	UPR RCH	0.78518	23.30	0.27	141.31	521.45	6.51	6.20	0.00	6.20	0.00	1.03	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
717	6.10	6.00	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	72799.69	0.007	6.000	0.007
718	6.00	5.90	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	73934.82	0.007	6.000	0.008
719	5.90	5.80	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	75069.95	0.007	6.000	0.008
720	5.80	5.70	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	76205.09	0.007	6.000	0.008
721	5.70	5.60	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	77340.22	0.008	6.000	0.008
722	5.60	5.50	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	78475.35	0.008	6.000	0.008
723	5.50	5.40	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	79610.48	0.008	6.000	0.008
724	5.40	5.30	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	80745.62	0.008	6.000	0.008
725	5.30	5.20	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	81880.75	0.008	6.000	0.008
726	5.20	5.10	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	83015.88	0.008	6.000	0.008
727	5.10	5.00	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	84151.02	0.008	6.000	0.009
728	5.00	4.90	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	85286.15	0.008	6.000	0.009
729	4.90	4.80	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	86421.28	0.008	6.000	0.009
730	4.80	4.70	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	87556.41	0.009	6.000	0.009
731	4.70	4.60	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	88691.55	0.009	6.000	0.009
732	4.60	4.50	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	89826.68	0.009	6.000	0.009
733	4.50	4.40	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	90961.81	0.009	6.000	0.009
734	4.40	4.30	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	92096.95	0.009	6.000	0.009
735	4.30	4.20	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	93232.08	0.009	6.000	0.009
736	4.20	4.10	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	94367.21	0.009	6.000	0.010
737	4.10	4.00	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	95502.34	0.009	6.000	0.010
738	4.00	3.90	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	96637.48	0.009	6.000	0.010
739	3.90	3.80	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	97772.61	0.010	6.000	0.010
740	3.80	3.70	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	98907.74	0.010	6.000	0.010
741	3.70	3.60	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	100042.88	0.010	6.000	0.010
742	3.60	3.50	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	101178.01	0.010	6.000	0.010
743	3.50	3.40	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	102313.14	0.010	6.000	0.010
744	3.40	3.30	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	103448.27	0.010	6.000	0.010
745	3.30	3.20	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	104583.41	0.010	6.000	0.011
746	3.20	3.10	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	105718.54	0.010	6.000	0.011
747	3.10	3.00	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	106853.67	0.010	6.000	0.011
748	3.00	2.90	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	107988.80	0.011	6.000	0.011
749	2.90	2.80	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	109123.94	0.011	6.000	0.011
750	2.80	2.70	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	110259.07	0.011	6.000	0.011
751	2.70	2.60	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	111394.20	0.011	6.000	0.011
752	2.60	2.50	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	112529.34	0.011	6.000	0.011
753	2.50	2.40	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	113664.47	0.011	6.000	0.011
754	2.40	2.30	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	114799.60	0.011	6.000	0.011
755	2.30	2.20	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	115934.73	0.011	6.000	0.012
756	2.20	2.10	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	117069.87	0.011	6.000	0.012
757	2.10	2.00	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	118205.00	0.012	6.000	0.012
758	2.00	1.90	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	119340.13	0.012	6.000	0.012
759	1.90	1.80	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	120475.27	0.012	6.000	0.012

760	1.80	1.70	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	121610.40	0.012	6.000	0.012
761	1.70	1.60	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	122745.53	0.012	6.000	0.012
762	1.60	1.50	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	123880.66	0.012	6.000	0.012
763	1.50	1.40	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	125015.80	0.012	6.000	0.012
764	1.40	1.30	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	126150.93	0.012	6.000	0.013
765	1.30	1.20	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	127286.06	0.013	6.000	0.013
766	1.20	1.10	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	128421.20	0.013	6.000	0.013
767	1.10	1.00	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	129556.33	0.013	6.000	0.013
768	1.00	0.90	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	130691.46	0.013	6.000	0.013
769	0.90	0.80	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	131826.59	0.013	6.000	0.013
770	0.80	0.70	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	132961.73	0.013	6.000	0.013
771	0.70	0.60	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	134096.88	0.013	6.000	0.013
772	0.60	0.50	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	135232.02	0.013	6.000	0.013
773	0.50	0.40	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	136367.16	0.013	6.000	0.014
774	0.40	0.30	0.78518	3.3	0.00347	0.33	3.03	74.68	22628.04	7468.00	226.28	137502.30	0.014	6.000	0.014
TOT						19.35			1312426.25	433144.00					
AVG					0.0035		3.03	74.68			226.28				
CUM						47.54									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
717	6.000	8.52	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
718	5.900	8.51	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
719	5.800	8.51	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
720	5.700	8.51	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
721	5.600	8.51	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
722	5.500	8.51	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
723	5.400	8.51	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
724	5.300	8.51	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
725	5.200	8.51	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
726	5.100	8.51	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
727	5.000	8.51	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
728	4.900	8.51	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
729	4.800	8.50	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
730	4.700	8.50	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
731	4.600	8.50	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
732	4.500	8.50	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
733	4.400	8.50	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
734	4.300	8.50	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
735	4.200	8.50	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
736	4.100	8.49	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
737	4.000	8.49	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
738	3.900	8.49	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
739	3.800	8.49	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
740	3.700	8.49	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
741	3.600	8.48	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
742	3.500	8.48	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
743	3.400	8.48	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
744	3.300	8.48	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
745	3.200	8.47	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
746	3.100	8.47	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
747	3.000	8.47	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
748	2.900	8.46	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
749	2.800	8.46	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
750	2.700	8.45	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
751	2.600	8.45	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
752	2.500	8.45	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
753	2.400	8.44	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
754	2.300	8.44	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
755	2.200	8.43	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
756	2.100	8.43	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
757	2.000	8.42	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
758	1.900	8.41	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
759	1.800	8.41	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
760	1.700	8.40	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
761	1.600	8.39	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
762	1.500	8.39	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
763	1.400	8.38	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
764	1.300	8.37	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
765	1.200	8.36	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
766	1.100	8.35	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
767	1.000	8.34	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
768	0.900	8.33	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
769	0.800	8.32	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
770	0.700	8.31	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
771	0.600	8.29	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
772	0.500	8.28	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
773	0.400	8.27	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00

774	0.300	8.25	0.25	0.06	0.05	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.08	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.23	0.05	0.05	0.00	0.00	0.00	0.00	1.69			0.06	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
717	6.000	23.30	0.28	149.43	545.27	6.48	6.34	0.00	6.34	0.00	1.10	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
718	5.900	23.30	0.30	157.34	568.48	6.45	6.46	0.00	6.46	0.00	1.16	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
719	5.800	23.30	0.31	165.71	593.03	6.42	6.58	0.00	6.58	0.00	1.22	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
720	5.700	23.30	0.33	174.57	619.00	6.39	6.70	0.00	6.70	0.00	1.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
721	5.600	23.30	0.34	183.93	646.48	6.36	6.81	0.00	6.81	0.00	1.33	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
722	5.500	23.30	0.36	193.84	675.54	6.34	6.93	0.00	6.93	0.00	1.38	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
723	5.400	23.30	0.38	204.32	706.29	6.31	7.03	0.00	7.03	0.00	1.44	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
724	5.300	23.30	0.40	215.41	738.81	6.28	7.14	0.00	7.14	0.00	1.49	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
725	5.200	23.30	0.42	227.14	773.21	6.25	7.24	0.00	7.24	0.00	1.54	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
726	5.100	23.30	0.44	239.54	809.61	6.22	7.33	0.00	7.33	0.00	1.58	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
727	5.000	23.30	0.46	252.67	848.11	6.19	7.43	0.00	7.43	0.00	1.63	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
728	4.900	23.30	0.48	266.55	888.83	6.16	7.52	0.00	7.52	0.00	1.67	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
729	4.800	23.30	0.51	281.24	931.91	6.14	7.61	0.00	7.61	0.00	1.72	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
730	4.700	23.30	0.53	296.77	977.48	6.11	7.69	0.00	7.69	0.00	1.76	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
731	4.600	23.30	0.56	313.21	1025.69	6.08	7.77	0.00	7.77	0.00	1.80	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
732	4.500	23.30	0.59	330.59	1076.68	6.06	7.85	0.00	7.85	0.00	1.84	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
733	4.400	23.30	0.62	348.98	1130.63	6.03	7.93	0.00	7.93	0.00	1.87	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
734	4.300	23.30	0.65	368.43	1187.69	6.01	8.00	0.00	8.00	0.00	1.91	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
735	4.200	23.30	0.69	389.01	1248.06	5.98	8.07	0.00	8.07	0.00	1.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
736	4.100	23.30	0.73	410.78	1311.91	5.96	8.14	0.00	8.14	0.00	1.98	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
737	4.000	23.30	0.77	433.81	1379.46	5.93	8.20	0.00	8.20	0.00	2.01	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
738	3.900	23.30	0.81	458.16	1450.91	5.91	8.26	0.00	8.26	0.00	2.04	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
739	3.800	23.30	0.85	483.93	1526.50	5.89	8.32	0.00	8.32	0.00	2.07	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
740	3.700	23.30	0.90	511.19	1606.46	5.87	8.37	0.00	8.37	0.00	2.09	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
741	3.600	23.30	0.95	540.02	1691.04	5.85	8.42	0.00	8.42	0.00	2.12	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
742	3.500	23.30	1.00	570.53	1780.51	5.83	8.47	0.00	8.47	0.00	2.14	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
743	3.400	23.30	1.05	602.79	1875.16	5.82	8.51	0.00	8.51	0.00	2.17	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
744	3.300	23.30	1.11	636.92	1975.28	5.80	8.55	0.00	8.55	0.00	2.19	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
745	3.200	23.30	1.17	673.03	2081.20	5.79	8.58	0.00	8.58	0.00	2.21	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
746	3.100	23.30	1.23	711.22	2193.23	5.77	8.62	0.00	8.62	0.00	2.23	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
747	3.000	23.30	1.30	751.63	2311.75	5.76	8.64	0.00	8.64	0.00	2.24	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
748	2.900	23.30	1.38	794.37	2437.12	5.75	8.67	0.00	8.67	0.00	2.26	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
749	2.800	23.30	1.45	839.58	2569.74	5.74	8.68	0.00	8.68	0.00	2.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
750	2.700	23.30	1.53	887.40	2710.03	5.74	8.70	0.00	8.70	0.00	2.28	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
751	2.600	23.30	1.62	937.99	2858.44	5.73	8.71	0.00	8.71	0.00	2.29	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
752	2.500	23.30	1.71	991.51	3015.43	5.73	8.71	0.00	8.71	0.00	2.30	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
753	2.400	23.30	1.81	1048.12	3181.49	5.73	8.71	0.00	8.71	0.00	2.30	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
754	2.300	23.30	1.91	1108.01	3357.16	5.73	8.70	0.00	8.70	0.00	2.30	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
755	2.200	23.30	2.01	1171.36	3542.99	5.74	8.69	0.00	8.69	0.00	2.30	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
756	2.100	23.30	2.13	1238.37	3739.57	5.75	8.67	0.00	8.67	0.00	2.30	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
757	2.000	23.30	2.25	1309.26	3947.52	5.76	8.64	0.00	8.64	0.00	2.30	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
758	1.900	23.30	2.37	1384.25	4167.49	5.77	8.60	0.00	8.60	0.00	2.29	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
759	1.800	23.30	2.51	1463.58	4400.18	5.79	8.56	0.00	8.56	0.00	2.28	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
760	1.700	23.30	2.65	1547.49	4646.33	5.81	8.51	0.00	8.51	0.00	2.26	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
761	1.600	23.30	2.80	1636.25	4906.72	5.84	8.45	0.00	8.45	0.00	2.24	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
762	1.500	23.30	2.96	1730.15	5182.16	5.87	8.38	0.00	8.38	0.00	2.22	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
763	1.400	23.30	3.13	1829.48	5473.53	5.90	8.30	0.00	8.30	0.00	2.20	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
764	1.300	23.30	3.31	1934.56	5781.76	5.94	8.20	0.00	8.20	0.00	2.17	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
765	1.200	23.30	3.49	2045.71	6107.81	5.98	8.10	0.00	8.10	0.00	2.13	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
766	1.100	23.30	3.69	2163.29	6452.72	6.03	7.98	0.00	7.98	0.00	2.09	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
767	1.000	23.30	3.90	2287.67	6817.57	6.09	7.85	0.00	7.85	0.00	2.05	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
768	0.900	23.30	4.13	2419.24	7203.52	6.15	7.70	0.00	7.70	0.00	2.00	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
769	0.800	23.30	4.36	2558.42	7611.80	6.22	7.54	0.00	7.54	0.00	1.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
770	0.700	23.30	4.61	2705.65	8043.68	6.30	7.35	0.00	7.35	0.00	1.88	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
771	0.600	23.30	4.88	2861.40	8500.55	6.39	7.15	0.00	7.15	0.00	1.81	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
772	0.500	23.30	5.15	3026.15	8983.83	6.48	6.93	0.00	6.93	0.00	1.73	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
773	0.400	23.30	5.45	3200.43	9495.07	6.59	6.69	0.00	6.69	0.00	1.65	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
774	0.300	23.30	5.76	3384.79	10035.87	6.70	6.42	0.00	6.42	0.00	1.55	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 41 BL09 to Lake Pontchartrain Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
775	UPR RCH	0.78518	23.30	5.76	3384.79	10035.87	6.70	6.42	0.00	6.42	0.00	1.55	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
775	0.30	0.20	0.78518	3.3	0.00439	0.26	1.80	99.36	17884.80	9936.00	178.85	139012.56	0.017	7.500	0.018
776	0.20	0.10	0.78518	3.3	0.00439	0.26	1.80	99.36	17884.80	9936.00	178.85	140522.83	0.017	7.500	0.018
777	0.10	0.00	0.78518	3.3	0.00439	0.26	1.80	99.36	17884.80	9936.00	178.85	142033.09	0.018	7.500	0.018
TOT						0.79			53654.40	29808.00					
AVG					0.0044		1.80	99.36			178.85				
CUM						48.33									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
775	0.200	8.24	0.41	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.05	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
776	0.100	8.22	0.41	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.05	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
777	0.000	8.20	0.41	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.05	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.39	0.06	0.05	0.00	0.00	0.00	0.00	0.00			0.10	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
775	0.200	23.30	6.09	3580.99	10611.40	6.82	6.12	0.00	6.12	0.00	1.44	0.00	0.00	0.00	0.00	9.43	0.00	0.	0.00
776	0.100	23.30	6.45	3789.87	11224.13	6.95	5.74	0.00	5.74	0.00	1.34	0.00	0.00	0.00	0.00	8.87	0.00	0.	0.00
777	0.000	23.30	6.82	4010.98	11872.72	7.08	5.29	0.00	5.29	0.00	1.22	0.00	0.00	0.00	0.00	8.30	0.00	0.	0.00

STREAM SUMMARY
BAYOU LACOMBE

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

TRAVEL TIME = 48.33 DAYS

MAXIMUM EFFLUENT = 3.33 PERCENT

FLOW	=	0.11000	TO	0.78518	m³/s
DISPERSION	=	0.5000	TO	7.5000	m²/s
VELOCITY	=	0.00266	TO	0.30503	m/s
DEPTH	=	0.17	TO	3.60	m
WIDTH	=	5.79	TO	99.36	m
BOD DECAY	=	0.03	TO	0.07	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.00	TO	5.39	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	0.19	TO	6.73	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.00	TO	0.58	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	19.60	TO	23.30	deg C
DISSOLVED OXYGEN	=	5.03	TO	8.33	mg/L

FINAL REPORT Ditch #1 Hwy 36 BL
REACH NO. 2 Hwy 36 Ditch BL

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
11	HDWTR	0.00280	19.60	0.01	5.60	51.60	5.00	2.75	0.00	2.75	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00
12	WSTLD	0.00022	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
40	WSTLD	0.00013	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	PCT EFF	ADVCTV VELO	TRAVEL TIME	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	TIDAL PRISM	TIDAL VELO	DISPRSN	MEAN VELO

	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
11	4.20	4.10	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
12	4.10	4.00	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
13	4.00	3.90	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
14	3.90	3.80	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
15	3.80	3.70	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
16	3.70	3.60	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
17	3.60	3.50	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
18	3.50	3.40	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
19	3.40	3.30	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
20	3.30	3.20	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
21	3.20	3.10	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
22	3.10	3.00	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
23	3.00	2.90	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
24	2.90	2.80	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
25	2.80	2.70	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
26	2.70	2.60	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
27	2.60	2.50	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
28	2.50	2.40	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
29	2.40	2.30	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
30	2.30	2.20	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
31	2.20	2.10	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
32	2.10	2.00	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
33	2.00	1.90	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
34	1.90	1.80	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
35	1.80	1.70	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
36	1.70	1.60	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
37	1.60	1.50	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
38	1.50	1.40	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
39	1.40	1.30	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
40	1.30	1.20	0.00315	11.1	0.06301	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
41	1.20	1.10	0.00315	11.1	0.06301	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
42	1.10	1.00	0.00315	11.1	0.06301	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
43	1.00	0.90	0.00315	11.1	0.06301	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
44	0.90	0.80	0.00315	11.1	0.06301	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
45	0.80	0.70	0.00315	11.1	0.06301	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
46	0.70	0.60	0.00315	11.1	0.06301	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
47	0.60	0.50	0.00315	11.1	0.06301	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
48	0.50	0.40	0.00315	11.1	0.06301	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
49	0.40	0.30	0.00315	11.1	0.06301	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
50	0.30	0.20	0.00315	11.1	0.06301	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
51	0.20	0.10	0.00315	11.1	0.06301	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
52	0.10	0.00	0.00315	11.1	0.06301	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
TOT						0.80			210.00	4200.00					
AVG					0.0611		0.05	1.00			0.05				
CUM						0.80									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
11	4.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	4.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	3.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	3.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	3.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	3.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	3.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	3.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	3.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	3.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	3.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	3.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	2.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	2.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	2.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	2.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	2.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	2.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	2.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	2.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	2.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	2.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	1.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	1.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	1.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	1.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	1.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	1.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

39	1.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	1.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	1.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	1.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	0.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	0.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	0.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	0.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	0.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	0.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	0.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	0.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			25.00	0.08	0.05	0.00	0.00	0.00	0.00	0.62			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
11	4.100	19.60	0.01	5.60	51.60	6.24	2.75	0.00	2.75	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
12	4.000	19.60	0.04	9.40	100.08	6.81	7.55	0.00	7.55	0.00	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
13	3.900	19.60	0.04	9.40	100.08	7.40	7.54	0.00	7.54	0.00	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
14	3.800	19.60	0.04	9.40	100.08	7.80	7.52	0.00	7.52	0.00	5.82	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
15	3.700	19.60	0.04	9.40	100.08	8.07	7.51	0.00	7.51	0.00	5.81	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
16	3.600	19.60	0.04	9.40	100.08	8.25	7.50	0.00	7.50	0.00	5.81	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
17	3.500	19.60	0.04	9.40	100.08	8.38	7.49	0.00	7.49	0.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
18	3.400	19.60	0.04	9.40	100.08	8.46	7.48	0.00	7.48	0.00	5.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
19	3.300	19.60	0.04	9.40	100.08	8.52	7.47	0.00	7.47	0.00	5.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
20	3.200	19.60	0.04	9.40	100.08	8.56	7.46	0.00	7.46	0.00	5.78	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
21	3.100	19.60	0.04	9.40	100.08	8.59	7.45	0.00	7.45	0.00	5.77	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
22	3.000	19.60	0.04	9.40	100.08	8.60	7.44	0.00	7.44	0.00	5.77	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
23	2.900	19.60	0.04	9.40	100.08	8.62	7.42	0.00	7.42	0.00	5.76	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
24	2.800	19.60	0.04	9.40	100.08	8.62	7.41	0.00	7.41	0.00	5.75	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
25	2.700	19.60	0.04	9.40	100.08	8.63	7.40	0.00	7.40	0.00	5.75	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
26	2.600	19.60	0.04	9.40	100.08	8.63	7.39	0.00	7.39	0.00	5.74	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
27	2.500	19.60	0.04	9.40	100.08	8.64	7.38	0.00	7.38	0.00	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
28	2.400	19.60	0.04	9.40	100.08	8.64	7.37	0.00	7.37	0.00	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
29	2.300	19.60	0.04	9.40	100.08	8.64	7.36	0.00	7.36	0.00	5.72	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
30	2.200	19.60	0.04	9.40	100.08	8.64	7.35	0.00	7.35	0.00	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
31	2.100	19.60	0.04	9.40	100.08	8.64	7.34	0.00	7.34	0.00	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
32	2.000	19.60	0.04	9.40	100.08	8.64	7.33	0.00	7.33	0.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
33	1.900	19.60	0.04	9.40	100.08	8.64	7.32	0.00	7.32	0.00	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
34	1.800	19.60	0.04	9.40	100.08	8.64	7.30	0.00	7.30	0.00	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
35	1.700	19.60	0.04	9.40	100.08	8.64	7.29	0.00	7.29	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
36	1.600	19.60	0.04	9.40	100.08	8.64	7.28	0.00	7.28	0.00	5.67	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
37	1.500	19.60	0.04	9.40	100.08	8.64	7.27	0.00	7.27	0.00	5.67	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
38	1.400	19.60	0.04	9.40	100.08	8.64	7.26	0.00	7.26	0.00	5.66	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
39	1.300	19.60	0.04	9.40	100.08	8.64	7.25	0.00	7.25	0.00	5.65	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
40	1.200	19.60	0.05	11.42	125.95	8.45	11.25	0.00	11.25	0.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
41	1.100	19.60	0.05	11.42	125.95	8.50	11.23	0.00	11.23	0.00	8.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
42	1.000	19.60	0.05	11.42	125.95	8.54	11.21	0.00	11.21	0.00	8.08	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
43	0.900	19.60	0.05	11.42	125.95	8.57	11.19	0.00	11.19	0.00	8.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
44	0.800	19.60	0.05	11.42	125.95	8.59	11.17	0.00	11.17	0.00	8.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
45	0.700	19.60	0.05	11.42	125.95	8.60	11.15	0.00	11.15	0.00	8.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
46	0.600	19.60	0.05	11.42	125.95	8.61	11.13	0.00	11.13	0.00	8.04	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
47	0.500	19.60	0.05	11.42	125.95	8.61	11.11	0.00	11.11	0.00	8.03	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
48	0.400	19.60	0.05	11.42	125.95	8.62	11.09	0.00	11.09	0.00	8.02	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
49	0.300	19.60	0.05	11.42	125.95	8.62	11.08	0.00	11.08	0.00	8.01	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
50	0.200	19.60	0.05	11.42	125.95	8.62	11.06	0.00	11.06	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
51	0.100	19.60	0.05	11.42	125.95	8.62	11.04	0.00	11.04	0.00	7.99	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
52	0.000	19.60	0.05	11.42	125.95	8.62	11.02	0.00	11.02	0.00	7.98	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch #1 Hwy 36 BL

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

TRAVEL TIME = 0.80 DAYS

MAXIMUM EFFLUENT = 11.13 PERCENT

FLOW	=	0.00280	TO	0.00315	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.05600	TO	0.06301	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.08	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day

SOD	=	0.61	TO	0.61	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	24.80	TO	24.80	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	19.60	TO	19.60	deg C
DISSOLVED OXYGEN	=	6.24	TO	8.64	mg/L

FINAL REPORT Ditch #2 SNG ditch — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 6 SNG Ditch — Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
168	HDWTR	0.00280	19.60	0.01	5.60	51.60	5.00	2.75	0.00	2.75	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00
169	WSTLD	0.00014	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
168	2.10	2.00	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
169	2.00	1.90	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
170	1.90	1.80	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
171	1.80	1.70	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
172	1.70	1.60	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
173	1.60	1.50	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
174	1.50	1.40	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
175	1.40	1.30	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
176	1.30	1.20	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
177	1.20	1.10	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
178	1.10	1.00	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
179	1.00	0.90	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
180	0.90	0.80	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
181	0.80	0.70	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
182	0.70	0.60	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
183	0.60	0.50	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
184	0.50	0.40	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
185	0.40	0.30	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
186	0.30	0.20	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
187	0.20	0.10	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
188	0.10	0.00	0.00294	4.7	0.05874	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
TOT						0.41			105.00	2100.00					
AVG					0.0586		0.05	1.00			0.05				
CUM						0.41									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
168	2.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169	1.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	1.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	1.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173	1.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	1.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	1.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	1.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	1.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	1.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179	0.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
181	0.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
182	0.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183	0.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184	0.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
185	0.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
186	0.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
187	0.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188	0.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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AVG 20 DEG C RATE    25.00   0.08  0.05   0.00   0.00  0.00   0.00  0.62              0.03  0.05   0.00  0.00   0.00  0.00              0.00   0.00   0.00

*   g/m²/d            **   mg/L/day
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********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
168	2.000	19.60	0.01	5.60	51.60	6.24	2.75	0.00	2.75	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
169	1.900	19.60	0.03	8.04	82.74	6.90	7.44	0.00	7.44	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
170	1.800	19.60	0.03	8.04	82.74	7.47	7.42	0.00	7.42	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
171	1.700	19.60	0.03	8.04	82.74	7.86	7.41	0.00	7.41	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
172	1.600	19.60	0.03	8.04	82.74	8.11	7.40	0.00	7.40	0.00	4.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
173	1.500	19.60	0.03	8.04	82.74	8.29	7.39	0.00	7.39	0.00	4.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
174	1.400	19.60	0.03	8.04	82.74	8.40	7.38	0.00	7.38	0.00	4.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
175	1.300	19.60	0.03	8.04	82.74	8.48	7.37	0.00	7.37	0.00	4.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
176	1.200	19.60	0.03	8.04	82.74	8.54	7.36	0.00	7.36	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
177	1.100	19.60	0.03	8.04	82.74	8.57	7.35	0.00	7.35	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
178	1.000	19.60	0.03	8.04	82.74	8.59	7.34	0.00	7.34	0.00	4.15	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
179	0.900	19.60	0.03	8.04	82.74	8.61	7.32	0.00	7.32	0.00	4.15	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
180	0.800	19.60	0.03	8.04	82.74	8.62	7.31	0.00	7.31	0.00	4.15	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
181	0.700	19.60	0.03	8.04	82.74	8.63	7.30	0.00	7.30	0.00	4.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
182	0.600	19.60	0.03	8.04	82.74	8.63	7.29	0.00	7.29	0.00	4.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
183	0.500	19.60	0.03	8.04	82.74	8.64	7.28	0.00	7.28	0.00	4.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
184	0.400	19.60	0.03	8.04	82.74	8.64	7.27	0.00	7.27	0.00	4.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
185	0.300	19.60	0.03	8.04	82.74	8.64	7.26	0.00	7.26	0.00	4.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
186	0.200	19.60	0.03	8.04	82.74	8.64	7.25	0.00	7.25	0.00	4.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
187	0.100	19.60	0.03	8.04	82.74	8.64	7.24	0.00	7.24	0.00	4.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
188	0.000	19.60	0.03	8.04	82.74	8.64	7.23	0.00	7.23	0.00	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

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STREAM SUMMARY                                          BAYOU LACOMBE WATERSHED MODEL
Ditch #2 SNG ditch                                      Winter 4,5 DO curr criteria

 TRAVEL TIME       =           0.41 DAYS

 MAXIMUM EFFLUENT  =           4.66 PERCENT

 FLOW              =   0.00280 TO    0.00294   m³/s
 DISPERSION        =   0.0000  TO    0.0000    m²/s
 VELOCITY          =   0.05600 TO    0.05874   m/s
 DEPTH             =   0.05    TO    0.05      m
 WIDTH             =   1.00    TO    1.00      m

 BOD DECAY         =    0.08   TO    0.08      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    0.61   TO    0.61      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =   24.80   TO   24.80      per day
 BOD SETTLING      =    0.05   TO    0.05      per day
 NBOD DECAY        =    0.03   TO    0.03      per day
 NBOD SETTLING     =    0.05   TO    0.05      per day

 TEMPERATURE       =   19.60   TO   19.60      deg C
 DISSOLVED OXYGEN  =    6.24   TO    8.64      mg/L

FINAL REPORT    Ditch#3Hwy434/I-12BL                    BAYOU LACOMBE WATERSHED MODEL
REACH NO.  8    Hwy 434/I-12 Ditch BL                   Winter 4,5 DO curr criteria
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********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
192	HDWTR	0.00280	19.60	0.01	5.60	51.60	5.00	2.75	0.00	2.75	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00
196	WSTLD	0.00005	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
206	WSTLD	0.00028	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
208	WSTLD	0.00057	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
192	3.00	2.90	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
193	2.90	2.80	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
194	2.80	2.70	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056

195	2.70	2.60	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
196	2.60	2.50	0.00285	1.9	0.05710	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
197	2.50	2.40	0.00285	1.9	0.05710	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
198	2.40	2.30	0.00285	1.9	0.05710	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
199	2.30	2.20	0.00285	1.9	0.05710	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
200	2.20	2.10	0.00285	1.9	0.05710	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
201	2.10	2.00	0.00285	1.9	0.05710	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
202	2.00	1.90	0.00285	1.9	0.05710	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
203	1.90	1.80	0.00285	1.9	0.05710	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
204	1.80	1.70	0.00285	1.9	0.05710	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
205	1.70	1.60	0.00285	1.9	0.05710	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
206	1.60	1.50	0.00313	10.6	0.06267	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
207	1.50	1.40	0.00313	10.6	0.06267	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.063
208	1.40	1.30	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
209	1.30	1.20	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
210	1.20	1.10	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
211	1.10	1.00	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
212	1.00	0.90	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
213	0.90	0.80	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
214	0.80	0.70	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
215	0.70	0.60	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
216	0.60	0.50	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
217	0.50	0.40	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
218	0.40	0.30	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
219	0.30	0.20	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
220	0.20	0.10	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
221	0.10	0.00	0.00371	24.5	0.07413	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.074
TOT						0.54			150.00	3000.00					
AVG					0.0642		0.05	1.00			0.05				
CUM						0.54									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
192	2.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
193	2.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
194	2.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195	2.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
196	2.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	2.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
198	2.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199	2.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	2.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
201	2.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202	1.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
203	1.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
204	1.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
205	1.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
206	1.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
207	1.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	1.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
209	1.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210	1.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
211	1.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
212	0.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
213	0.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
214	0.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
215	0.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
216	0.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217	0.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
218	0.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
219	0.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220	0.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221	0.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			25.00	0.08	0.05	0.00	0.00	0.00	0.00	0.62			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
192	2.900	19.60	0.01	5.60	51.60	6.24	2.75	0.00	2.75	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
193	2.800	19.60	0.01	5.60	51.60	7.06	2.75	0.00	2.75	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
194	2.700	19.60	0.01	5.60	51.60	7.60	2.75	0.00	2.75	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
195	2.600	19.60	0.01	5.60	51.60	7.96	2.75	0.00	2.75	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

196	2.500	19.60	0.02	6.60	64.42	8.12	4.68	0.00	4.68	0.00	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
197	2.400	19.60	0.02	6.60	64.42	8.30	4.68	0.00	4.68	0.00	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
198	2.300	19.60	0.02	6.60	64.42	8.42	4.67	0.00	4.67	0.00	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
199	2.200	19.60	0.02	6.60	64.42	8.50	4.67	0.00	4.67	0.00	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
200	2.100	19.60	0.02	6.60	64.42	8.55	4.67	0.00	4.67	0.00	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
201	2.000	19.60	0.02	6.60	64.42	8.58	4.66	0.00	4.66	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
202	1.900	19.60	0.02	6.60	64.42	8.61	4.66	0.00	4.66	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
203	1.800	19.60	0.02	6.60	64.42	8.62	4.65	0.00	4.65	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
204	1.700	19.60	0.02	6.60	64.42	8.63	4.65	0.00	4.65	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
205	1.600	19.60	0.02	6.60	64.42	8.64	4.64	0.00	4.64	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
206	1.500	19.60	0.05	11.17	122.73	8.23	13.41	0.00	13.41	0.00	7.96	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
207	1.400	19.60	0.05	11.17	122.73	8.35	13.39	0.00	13.39	0.00	7.95	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
208	1.300	19.60	0.10	18.39	214.98	7.71	21.95	0.00	21.95	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
209	1.200	19.60	0.10	18.39	214.98	7.95	21.91	0.00	21.91	0.00	16.65	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
210	1.100	19.60	0.10	18.39	214.98	8.13	21.87	0.00	21.87	0.00	16.63	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
211	1.000	19.60	0.10	18.39	214.98	8.25	21.83	0.00	21.83	0.00	16.61	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
212	0.900	19.60	0.10	18.39	214.98	8.34	21.80	0.00	21.80	0.00	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
213	0.800	19.60	0.10	18.39	214.98	8.41	21.76	0.00	21.76	0.00	16.58	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
214	0.700	19.60	0.10	18.39	214.98	8.46	21.72	0.00	21.72	0.00	16.56	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
215	0.600	19.60	0.10	18.39	214.98	8.49	21.68	0.00	21.68	0.00	16.54	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
216	0.500	19.60	0.10	18.39	214.98	8.52	21.65	0.00	21.65	0.00	16.52	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
217	0.400	19.60	0.10	18.39	214.98	8.53	21.61	0.00	21.61	0.00	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
218	0.300	19.60	0.10	18.39	214.98	8.55	21.57	0.00	21.57	0.00	16.48	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
219	0.200	19.60	0.10	18.39	214.98	8.56	21.54	0.00	21.54	0.00	16.47	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
220	0.100	19.60	0.10	18.39	214.98	8.56	21.50	0.00	21.50	0.00	16.45	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
221	0.000	19.60	0.10	18.39	214.98	8.57	21.46	0.00	21.46	0.00	16.43	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch#3Hwy434/I-12BL

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

TRAVEL TIME = 0.54 DAYS

MAXIMUM EFFLUENT = 24.45 PERCENT

FLOW	=	0.00280	TO	0.00371	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.05600	TO	0.07413	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.08	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.61	TO	0.61	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	24.80	TO	24.80	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	19.60	TO	19.60	deg C
DISSOLVED OXYGEN	=	6.24	TO	8.64	mg/L

FINAL REPORT Ditch #4 Keller Barn
REACH NO. 11 Keller Barn Ditch

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
240	HDWTR	0.00280	19.60	0.01	5.60	51.60	5.00	0.82	0.00	0.82	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00
241	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
240	0.90	0.80	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
241	0.80	0.70	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
242	0.70	0.60	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
243	0.60	0.50	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
244	0.50	0.40	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
245	0.40	0.30	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
246	0.30	0.20	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
247	0.20	0.10	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
248	0.10	0.00	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
TOT						0.19			45.00	900.00					

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 AVG                                    0.0561            0.05    1.00                          0.05
 CUM                                              0.19

 ********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************

 ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN    NH3   NH3  DENIT   PO4   ALG   MAC   COLI    NCM    NCM
 NO.     DIST  D.O.    RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
               mg/L    1/da   1/da  1/da   1/da   1/da  1/da   1/da     *     *     *   1/da  1/da   1/da     *   1/da     *    **    **   1/da   1/da   1/da

 240    0.800  9.16   24.80   0.08  0.05   0.00   0.00  0.00   0.00  0.18  0.18  0.18   0.03  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
 241    0.700  9.16   24.80   0.08  0.05   0.00   0.00  0.00   0.00  0.18  0.18  0.18   0.03  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
 242    0.600  9.16   24.80   0.08  0.05   0.00   0.00  0.00   0.00  0.18  0.18  0.18   0.03  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
 243    0.500  9.16   24.80   0.08  0.05   0.00   0.00  0.00   0.00  0.18  0.18  0.18   0.03  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
 244    0.400  9.16   24.80   0.08  0.05   0.00   0.00  0.00   0.00  0.18  0.18  0.18   0.03  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
 245    0.300  9.16   24.80   0.08  0.05   0.00   0.00  0.00   0.00  0.18  0.18  0.18   0.03  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
 246    0.200  9.16   24.80   0.08  0.05   0.00   0.00  0.00   0.00  0.18  0.18  0.18   0.03  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
 247    0.100  9.16   24.80   0.08  0.05   0.00   0.00  0.00   0.00  0.18  0.18  0.18   0.03  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00
 248    0.000  9.16   24.80   0.08  0.05   0.00   0.00  0.00   0.00  0.18  0.18  0.18   0.03  0.05   0.00  0.00   0.00  0.00  0.00  0.00   0.00   0.00   0.00

 AVG 20 DEG C RATE    25.00   0.08  0.05   0.00   0.00  0.00   0.00  0.19               0.03  0.05   0.00  0.00   0.00  0.00                0.00   0.00   0.00

 *   g/m²/d            **   mg/L/day


 ********************************************** WATER QUALITY CONSTITUENT VALUES **********************************************

 ELEM  ENDING   TEMP  SALN chloride  conduct    DO   BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   TOTN   PHOS  CHL A  MACRO     COLI     NCM
 NO.     DIST  DEG C   PPT     mg/L    uS/cm  mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L    µg/L   g/m³  #/100mL

 240    0.800  19.60  0.01     5.60    51.60  6.36   0.83   0.00   0.83   0.00   0.38   0.00   0.00   0.00   0.00   0.00   0.00       0.    0.00
 241    0.700  19.60  0.01     5.74    53.41  7.25   0.89   0.00   0.89   0.00   0.43   0.00   0.00   0.00   0.00   0.00   0.00       0.    0.00
 242    0.600  19.60  0.01     5.74    53.41  7.85   0.89   0.00   0.89   0.00   0.43   0.00   0.00   0.00   0.00   0.00   0.00       0.    0.00
 243    0.500  19.60  0.01     5.74    53.41  8.24   0.89   0.00   0.89   0.00   0.43   0.00   0.00   0.00   0.00   0.00   0.00       0.    0.00
 244    0.400  19.60  0.01     5.74    53.41  8.50   0.88   0.00   0.88   0.00   0.43   0.00   0.00   0.00   0.00   0.00   0.00       0.    0.00
 245    0.300  19.60  0.01     5.74    53.41  8.67   0.88   0.00   0.88   0.00   0.43   0.00   0.00   0.00   0.00   0.00   0.00       0.    0.00
 246    0.200  19.60  0.01     5.74    53.41  8.79   0.88   0.00   0.88   0.00   0.43   0.00   0.00   0.00   0.00   0.00   0.00       0.    0.00
 247    0.100  19.60  0.01     5.74    53.41  8.86   0.88   0.00   0.88   0.00   0.43   0.00   0.00   0.00   0.00   0.00   0.00       0.    0.00
 248    0.000  19.60  0.01     5.74    53.41  8.91   0.88   0.00   0.88   0.00   0.43   0.00   0.00   0.00   0.00   0.00   0.00       0.    0.00


STREAM SUMMARY                                                    BAYOU LACOMBE WATERSHED MODEL
Ditch #4 Keller Barn                                              Winter 4,5 DO curr criteria

 TRAVEL TIME       =           0.19 DAYS

 MAXIMUM EFFLUENT  =           0.27 PERCENT

 FLOW              =   0.00280 TO    0.00281   m³/s
 DISPERSION        =   0.0000  TO    0.0000    m²/s
 VELOCITY          =   0.05600 TO    0.05615   m/s
 DEPTH             =   0.05    TO    0.05      m
 WIDTH             =   1.00    TO    1.00      m

 BOD DECAY         =    0.08   TO    0.08      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    0.18   TO    0.18      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =   24.80   TO   24.80      per day
 BOD SETTLING      =    0.05   TO    0.05      per day
 NBOD DECAY        =    0.03   TO    0.03      per day
 NBOD SETTLING     =    0.05   TO    0.05      per day

 TEMPERATURE       =   19.60   TO   19.60      deg C
 DISSOLVED OXYGEN  =    6.36   TO    8.91      mg/L


FINAL REPORT    Ditch#5 Beau Village                              BAYOU LACOMBE WATERSHED MODEL
REACH NO. 13    Beau Village Ditch                                Winter 4,5 DO curr criteria


 ********************************************************** REACH INPUTS **********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L    µg/L  #/100mL

  276  HDWTR     0.00280   19.60     0.01     5.60    51.60   5.00   0.82   0.00   0.82   0.00   0.38   0.00   0.00   0.00   0.00     0.00    0.00
  277  WSTLD     0.00131   30.60     0.37    57.90   719.70   2.00  11.50   0.00  11.50   0.00   8.60   0.00   0.00   0.00   0.00     0.00    0.00


 ************************************************** HYDRAULIC PARAMETER VALUES **************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
  NO.    DIST    DIST              EFF     VELO      TIME                                  AREA    AREA     PRISM    VELO              VELO
```

	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
276	3.00	2.90	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
277	2.90	2.80	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
278	2.80	2.70	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
279	2.70	2.60	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
280	2.60	2.50	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
281	2.50	2.40	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
282	2.40	2.30	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
283	2.30	2.20	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
284	2.20	2.10	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
285	2.10	2.00	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
286	2.00	1.90	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
287	1.90	1.80	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
288	1.80	1.70	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
289	1.70	1.60	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
290	1.60	1.50	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
291	1.50	1.40	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
292	1.40	1.30	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
293	1.30	1.20	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
294	1.20	1.10	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
295	1.10	1.00	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
296	1.00	0.90	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
297	0.90	0.80	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
298	0.80	0.70	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
299	0.70	0.60	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
300	0.60	0.50	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
301	0.50	0.40	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
302	0.40	0.30	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
303	0.30	0.20	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
304	0.20	0.10	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
305	0.10	0.00	0.00411	31.9	0.08229	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.082
TOT						0.43			150.00	3000.00					
AVG					0.0810		0.05	1.00			0.05				
CUM						0.43									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
276	2.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
277	2.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
278	2.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
279	2.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
280	2.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
281	2.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
282	2.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
283	2.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
284	2.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285	2.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
286	1.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
287	1.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
288	1.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
289	1.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
290	1.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
291	1.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292	1.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293	1.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
294	1.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
295	1.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
296	0.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
297	0.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
298	0.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299	0.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	0.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
301	0.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
302	0.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
303	0.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
304	0.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
305	0.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			25.00	0.08	0.05	0.00	0.00	0.00	0.00	0.19			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM

276	2.900	19.60	0.01	5.60	51.60	6.36	0.83	0.00	0.83	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
277	2.800	19.60	0.13	22.31	265.03	6.01	4.23	0.00	4.23	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
278	2.700	19.60	0.13	22.31	265.03	6.78	4.22	0.00	4.22	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
279	2.600	19.60	0.13	22.31	265.03	7.35	4.22	0.00	4.22	0.00	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
280	2.500	19.60	0.13	22.31	265.03	7.78	4.21	0.00	4.21	0.00	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
281	2.400	19.60	0.13	22.31	265.03	8.09	4.21	0.00	4.21	0.00	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
282	2.300	19.60	0.13	22.31	265.03	8.32	4.20	0.00	4.20	0.00	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
283	2.200	19.60	0.13	22.31	265.03	8.50	4.19	0.00	4.19	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
284	2.100	19.60	0.13	22.31	265.03	8.63	4.19	0.00	4.19	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
285	2.000	19.60	0.13	22.31	265.03	8.72	4.18	0.00	4.18	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
286	1.900	19.60	0.13	22.31	265.03	8.79	4.18	0.00	4.18	0.00	2.97	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
287	1.800	19.60	0.13	22.31	265.03	8.84	4.17	0.00	4.17	0.00	2.97	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
288	1.700	19.60	0.13	22.31	265.03	8.88	4.17	0.00	4.17	0.00	2.97	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
289	1.600	19.60	0.13	22.31	265.03	8.91	4.16	0.00	4.16	0.00	2.97	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
290	1.500	19.60	0.13	22.31	265.03	8.93	4.15	0.00	4.15	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
291	1.400	19.60	0.13	22.31	265.03	8.95	4.15	0.00	4.15	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
292	1.300	19.60	0.13	22.31	265.03	8.96	4.14	0.00	4.14	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
293	1.200	19.60	0.13	22.31	265.03	8.97	4.14	0.00	4.14	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
294	1.100	19.60	0.13	22.31	265.03	8.98	4.13	0.00	4.13	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
295	1.000	19.60	0.13	22.31	265.03	8.98	4.12	0.00	4.12	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
296	0.900	19.60	0.13	22.31	265.03	8.98	4.12	0.00	4.12	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
297	0.800	19.60	0.13	22.31	265.03	8.99	4.11	0.00	4.11	0.00	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
298	0.700	19.60	0.13	22.31	265.03	8.99	4.11	0.00	4.11	0.00	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
299	0.600	19.60	0.13	22.31	265.03	8.99	4.10	0.00	4.10	0.00	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
300	0.500	19.60	0.13	22.31	265.03	8.99	4.10	0.00	4.10	0.00	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
301	0.400	19.60	0.13	22.31	265.03	8.99	4.09	0.00	4.09	0.00	2.93	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
302	0.300	19.60	0.13	22.31	265.03	8.99	4.08	0.00	4.08	0.00	2.93	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
303	0.200	19.60	0.13	22.31	265.03	8.99	4.08	0.00	4.08	0.00	2.93	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
304	0.100	19.60	0.13	22.31	265.03	8.99	4.07	0.00	4.07	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
305	0.000	19.60	0.13	22.31	265.03	8.99	4.07	0.00	4.07	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch#5 Beau Village

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

TRAVEL TIME	=	0.43	DAYS		
MAXIMUM EFFLUENT	=	31.95	PERCENT		
FLOW	=	0.00280	TO	0.00411	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.05600	TO	0.08229	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.08	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.18	TO	0.18	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	24.80	TO	24.80	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	19.60	TO	19.60	deg C
DISSOLVED OXYGEN	=	6.01	TO	8.99	mg/L

FINAL REPORT Ditch #6 Hwy 190 BL
REACH NO. 16 Hwy 190 Ditch BL

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
341	HDWTR	0.00280	19.60	0.01	5.60	51.60	4.00	1.65	0.00	1.65	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00
342	WSTLD	0.00011	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
344	WSTLD	0.00010	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
349	WSTLD	0.00002	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
350	WSTLD	0.00042	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
352	WSTLD	0.00080	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
353	WSTLD	0.00005	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
354	WSTLD	0.00025	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	21.50	0.00	0.00	0.00	0.00	0.00	0.00
358	WSTLD	0.00018	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
360	WSTLD	0.00120	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	PCT EFF	ADVCTV VELO	TRAVEL TIME	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	TIDAL PRISM	TIDAL VELO	DISPRSN	MEAN VELO

	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
341	2.20	2.10	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
342	2.10	2.00	0.00291	3.7	0.05814	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
343	2.00	1.90	0.00291	3.7	0.05814	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
344	1.90	1.80	0.00300	6.8	0.06005	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
345	1.80	1.70	0.00300	6.8	0.06005	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
346	1.70	1.60	0.00300	6.8	0.06005	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
347	1.60	1.50	0.00300	6.8	0.06005	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
348	1.50	1.40	0.00300	6.8	0.06005	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
349	1.40	1.30	0.00302	7.4	0.06047	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
350	1.30	1.20	0.00345	18.8	0.06896	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.069
351	1.20	1.10	0.00345	18.8	0.06896	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.069
352	1.10	1.00	0.00425	34.1	0.08504	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.085
353	1.00	0.90	0.00430	34.9	0.08601	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.086
354	0.90	0.80	0.00455	38.5	0.09105	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.091
355	0.80	0.70	0.00455	38.5	0.09105	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.091
356	0.70	0.60	0.00455	38.5	0.09105	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.091
357	0.60	0.50	0.00455	38.5	0.09105	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.091
358	0.50	0.40	0.00473	40.8	0.09457	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.095
359	0.40	0.30	0.00473	40.8	0.09457	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.095
360	0.30	0.20	0.00593	52.8	0.11866	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.119
361	0.20	0.10	0.00593	52.8	0.11866	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.119
362	0.10	0.00	0.00593	52.8	0.11866	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.119
TOT						0.34			110.00	2200.00					
AVG					0.0746		0.05	1.00			0.05				
CUM						0.34									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
341	2.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
342	2.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
343	1.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
344	1.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
345	1.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
346	1.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
347	1.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
348	1.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
349	1.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
350	1.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
351	1.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
352	1.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
353	0.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
354	0.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
355	0.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
356	0.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
357	0.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
358	0.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
359	0.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
360	0.200	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
361	0.100	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
362	0.000	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			25.00	0.08	0.05	0.00	0.00	0.00	0.00	0.38			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
341	2.100	19.60	0.01	5.60	51.60	5.65	1.65	0.00	1.65	0.00	0.75	0.00	0.00	0.00	0.00	0.45	0.00	0.	0.00
342	2.000	19.60	0.02	7.52	76.15	6.62	3.28	0.00	3.28	0.00	2.30	0.00	0.00	0.00	0.00	0.91	0.00	0.	0.00
343	1.900	19.60	0.02	7.52	76.15	7.36	3.27	0.00	3.27	0.00	2.30	0.00	0.00	0.00	0.00	1.36	0.00	0.	0.00
344	1.800	19.60	0.03	9.13	96.70	7.73	4.63	0.00	4.63	0.00	3.59	0.00	0.00	0.00	0.00	1.82	0.00	0.	0.00
345	1.700	19.60	0.03	9.13	96.70	8.09	4.62	0.00	4.62	0.00	3.59	0.00	0.00	0.00	0.00	2.27	0.00	0.	0.00
346	1.600	19.60	0.03	9.13	96.70	8.34	4.62	0.00	4.62	0.00	3.59	0.00	0.00	0.00	0.00	2.73	0.00	0.	0.00
347	1.500	19.60	0.03	9.13	96.70	8.51	4.61	0.00	4.61	0.00	3.58	0.00	0.00	0.00	0.00	3.18	0.00	0.	0.00
348	1.400	19.60	0.03	9.13	96.70	8.62	4.60	0.00	4.60	0.00	3.58	0.00	0.00	0.00	0.00	3.64	0.00	0.	0.00
349	1.300	19.60	0.04	9.47	100.99	8.66	4.88	0.00	4.88	0.00	3.85	0.00	0.00	0.00	0.00	4.09	0.00	0.	0.00
350	1.200	19.60	0.08	15.43	177.14	8.13	9.92	0.00	9.92	0.00	8.65	0.00	0.00	0.00	0.00	4.55	0.00	0.	0.00
351	1.100	19.60	0.08	15.43	177.14	8.34	9.91	0.00	9.91	0.00	8.64	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00
352	1.000	19.60	0.13	23.46	279.74	7.56	16.71	0.00	16.71	0.00	15.13	0.00	0.00	0.00	0.00	5.45	0.00	0.	0.00
353	0.900	19.60	0.14	23.85	284.73	7.82	17.01	0.00	17.01	0.00	15.43	0.00	0.00	0.00	0.00	5.91	0.00	0.	0.00
354	0.800	19.60	0.15	25.73	308.80	7.81	17.32	0.00	17.32	0.00	15.75	0.00	0.00	0.00	0.00	6.36	0.00	0.	0.00
355	0.700	19.60	0.15	25.73	308.80	8.05	17.29	0.00	17.29	0.00	15.73	0.00	0.00	0.00	0.00	6.82	0.00	0.	0.00

356	0.600	19.60	0.15	25.73	308.80	8.23	17.27	0.00	17.27	0.00	15.72	0.00	0.00	0.00	0.00	7.27	0.00	0.	0.00
357	0.500	19.60	0.15	25.73	308.80	8.37	17.24	0.00	17.24	0.00	15.70	0.00	0.00	0.00	0.00	7.73	0.00	0.	0.00
358	0.400	19.60	0.16	26.93	324.07	8.29	18.29	0.00	18.29	0.00	16.70	0.00	0.00	0.00	0.00	8.18	0.00	0.	0.00
359	0.300	19.60	0.16	26.93	324.07	8.41	18.26	0.00	18.26	0.00	16.69	0.00	0.00	0.00	0.00	8.64	0.00	0.	0.00
360	0.200	19.60	0.20	33.22	404.40	7.43	23.87	0.00	23.87	0.00	22.01	0.00	0.00	0.00	0.00	9.09	0.00	0.	0.00
361	0.100	19.60	0.20	33.22	404.40	7.69	23.84	0.00	23.84	0.00	22.00	0.00	0.00	0.00	0.00	9.55	0.00	0.	0.00
362	0.000	19.60	0.20	33.22	404.40	7.90	23.81	0.00	23.81	0.00	21.98	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY
Ditch #6 Hwy 190 BL

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

TRAVEL TIME = 0.34 DAYS

MAXIMUM EFFLUENT = 52.81 PERCENT

FLOW	=	0.00280	TO	0.00593	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.05600	TO	0.11866	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.08	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.37	TO	0.37	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	24.80	TO	24.80	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	19.60	TO	19.60	deg C
DISSOLVED OXYGEN	=	5.65	TO	8.66	mg/L

FINAL REPORT Ditch#7 Hwy434/190BL
REACH NO. 18 Hwy 434/190 Ditch BL

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
373	HDWTR	0.00280	19.60	0.01	5.60	51.60	4.00	1.65	0.00	1.65	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00
374	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
390	WSTLD	0.00004	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
391	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	46.00	0.00	46.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
373	2.20	2.10	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
374	2.10	2.00	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
375	2.00	1.90	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
376	1.90	1.80	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
377	1.80	1.70	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
378	1.70	1.60	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
379	1.60	1.50	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
380	1.50	1.40	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
381	1.40	1.30	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
382	1.30	1.20	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
383	1.20	1.10	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
384	1.10	1.00	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
385	1.00	0.90	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
386	0.90	0.80	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
387	0.80	0.70	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
388	0.70	0.60	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
389	0.60	0.50	0.00280	0.0	0.05602	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
390	0.50	0.40	0.00284	1.5	0.05684	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
391	0.40	0.30	0.00285	1.9	0.05708	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
392	0.30	0.20	0.00285	1.9	0.05708	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
393	0.20	0.10	0.00285	1.9	0.05708	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
394	0.10	0.00	0.00285	1.9	0.05708	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
TOT						0.45			110.00	2200.00					
AVG					0.0562		0.05	1.00			0.05				
CUM						0.45									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
373	2.100	9.13	24.88	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
374	2.000	9.10	24.97	0.08	0.05	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
375	1.900	9.07	25.05	0.08	0.05	0.00	0.00	0.00	0.00	0.38	0.38	0.38	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
376	1.800	9.04	25.13	0.08	0.05	0.00	0.00	0.00	0.00	0.38	0.38	0.38	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
377	1.700	9.01	25.22	0.08	0.05	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
378	1.600	8.98	25.30	0.08	0.05	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.03	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
379	1.500	8.95	25.39	0.08	0.05	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.03	0.05	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
380	1.400	8.92	25.47	0.08	0.05	0.00	0.00	0.00	0.00	0.40	0.40	0.40	0.03	0.05	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
381	1.300	8.89	25.55	0.08	0.05	0.00	0.00	0.00	0.00	0.40	0.40	0.40	0.03	0.05	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
382	1.200	8.87	25.64	0.08	0.05	0.00	0.00	0.00	0.00	0.41	0.41	0.41	0.03	0.05	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
383	1.100	8.84	25.72	0.09	0.05	0.00	0.00	0.00	0.00	0.41	0.41	0.41	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
384	1.000	8.81	25.81	0.09	0.05	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.03	0.05	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
385	0.900	8.78	25.89	0.09	0.05	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.03	0.05	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
386	0.800	8.75	25.97	0.09	0.05	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.03	0.05	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
387	0.700	8.72	26.06	0.09	0.05	0.00	0.00	0.00	0.00	0.43	0.43	0.43	0.03	0.05	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
388	0.600	8.69	26.14	0.09	0.05	0.00	0.00	0.00	0.00	0.43	0.43	0.43	0.03	0.05	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
389	0.500	8.67	26.23	0.09	0.05	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.04	0.05	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00
390	0.400	8.64	26.31	0.09	0.05	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.04	0.05	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
391	0.300	8.61	26.40	0.09	0.05	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.04	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
392	0.200	8.58	26.48	0.09	0.05	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.04	0.05	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
393	0.100	8.56	26.56	0.09	0.05	0.00	0.00	0.00	0.00	0.46	0.46	0.46	0.04	0.05	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
394	0.000	8.53	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.46	0.46	0.46	0.04	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			25.00	0.08	0.05	0.00	0.00	0.00	0.00	0.38			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
373	2.100	19.77	0.01	5.60	51.60	5.64	1.65	0.00	1.65	0.00	0.75	0.00	0.00	0.00	0.00	0.45	0.00	0.	0.00
374	2.000	19.94	0.01	5.62	51.86	6.71	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	0.91	0.00	0.	0.00
375	1.900	20.10	0.01	5.62	51.86	7.41	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	1.36	0.00	0.	0.00
376	1.800	20.27	0.01	5.62	51.86	7.87	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	1.82	0.00	0.	0.00
377	1.700	20.44	0.01	5.62	51.86	8.15	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	2.27	0.00	0.	0.00
378	1.600	20.61	0.01	5.62	51.86	8.33	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	2.73	0.00	0.	0.00
379	1.500	20.78	0.01	5.62	51.86	8.44	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	3.18	0.00	0.	0.00
380	1.400	20.95	0.01	5.62	51.86	8.50	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	3.64	0.00	0.	0.00
381	1.300	21.11	0.01	5.62	51.86	8.53	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	4.09	0.00	0.	0.00
382	1.200	21.28	0.01	5.62	51.86	8.54	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	4.55	0.00	0.	0.00
383	1.100	21.45	0.01	5.62	51.86	8.53	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00
384	1.000	21.62	0.01	5.62	51.86	8.52	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	5.45	0.00	0.	0.00
385	0.900	21.79	0.01	5.62	51.86	8.50	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	5.91	0.00	0.	0.00
386	0.800	21.95	0.01	5.62	51.86	8.47	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	6.36	0.00	0.	0.00
387	0.700	22.12	0.01	5.62	51.86	8.45	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	6.82	0.00	0.	0.00
388	0.600	22.29	0.01	5.62	51.86	8.42	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	7.27	0.00	0.	0.00
389	0.500	22.46	0.01	5.62	51.86	8.39	1.67	0.00	1.67	0.00	0.77	0.00	0.00	0.00	0.00	7.73	0.00	0.	0.00
390	0.400	22.63	0.02	6.38	61.52	8.30	2.31	0.00	2.31	0.00	1.38	0.00	0.00	0.00	0.00	8.18	0.00	0.	0.00
391	0.300	22.80	0.02	6.59	64.29	8.28	2.49	0.00	2.49	0.00	1.55	0.00	0.00	0.00	0.00	8.64	0.00	0.	0.00
392	0.200	22.96	0.02	6.59	64.29	8.27	2.49	0.00	2.49	0.00	1.55	0.00	0.00	0.00	0.00	9.09	0.00	0.	0.00
393	0.100	23.13	0.02	6.59	64.29	8.25	2.49	0.00	2.49	0.00	1.55	0.00	0.00	0.00	0.00	9.55	0.00	0.	0.00
394	0.000	23.30	0.02	6.59	64.29	8.23	2.48	0.00	2.48	0.00	1.55	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY
Ditch#7 Hwy434/190BL

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

TRAVEL TIME = 0.45 DAYS

MAXIMUM EFFLUENT = 1.90 PERCENT

FLOW	=	0.00280	TO	0.00285	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.05600	TO	0.05708	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.08	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.37	TO	0.46	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	24.88	TO	26.65	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.04	per day
NBOD SETTLING	=	0.05	TO	0.05	per day

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TEMPERATURE       =   19.77   TO   23.30      deg C
DISSOLVED OXYGEN  =    5.64   TO    8.54      mg/L
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FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 21 BB03 to Hwy 434/I-12 ditch BBB Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
426	HDWTR	0.00900	19.60	0.00	10.40	95.61	4.00	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	2.60	0.00	0.00
EACH	INCR	0.01475	21.66	0.00	10.40	95.61	4.00	0.67	0.00			0.01	0.00	0.00	0.00	0.00	0.00	

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
426	5.20	5.19	0.02375	0.0	0.01664	0.01	0.39	3.66	14.27	36.60	1.43	1.39	0.000	0.500	0.017
427	5.19	5.18	0.03850	0.0	0.02697	0.00	0.39	3.66	14.27	36.60	1.43	2.78	0.000	0.500	0.027
428	5.18	5.17	0.05325	0.0	0.03731	0.00	0.39	3.66	14.27	36.60	1.43	4.17	0.000	0.500	0.037
429	5.17	5.16	0.06800	0.0	0.04764	0.00	0.39	3.66	14.27	36.60	1.43	5.56	0.000	0.500	0.048
430	5.16	5.15	0.08275	0.0	0.05797	0.00	0.39	3.66	14.27	36.60	1.43	6.95	0.000	0.500	0.058
431	5.15	5.14	0.09750	0.0	0.06831	0.00	0.39	3.66	14.27	36.60	1.43	8.34	0.000	0.500	0.068
432	5.14	5.13	0.11225	0.0	0.07864	0.00	0.39	3.66	14.27	36.60	1.43	9.74	0.000	0.500	0.079
433	5.13	5.12	0.12700	0.0	0.08898	0.00	0.39	3.66	14.27	36.60	1.43	11.13	0.000	0.500	0.089
434	5.12	5.11	0.14175	0.0	0.09931	0.00	0.39	3.66	14.27	36.60	1.43	12.52	0.000	0.500	0.099
435	5.11	5.10	0.15651	0.0	0.10964	0.00	0.39	3.66	14.27	36.60	1.43	13.91	0.000	0.500	0.110
TOT						0.03			142.74	366.00					
AVG					0.0455		0.39	3.66			1.43				
CUM						0.03									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
426	5.190	9.16	1.78	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.50	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
427	5.180	9.16	1.78	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.50	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
428	5.170	9.16	1.80	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.50	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
429	5.160	9.16	1.93	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.50	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
430	5.150	9.16	2.03	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.50	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
431	5.140	9.16	2.13	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.50	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
432	5.130	9.16	2.21	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.50	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
433	5.120	9.16	2.29	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.50	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
434	5.110	9.16	2.36	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.50	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
435	5.100	9.16	2.42	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.09	0.07	0.05	0.00	0.00	0.00	0.00	0.50			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
426	5.190	19.60	0.00	10.40	95.62	4.07	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
427	5.180	19.60	0.00	10.40	95.62	4.07	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
428	5.170	19.60	0.00	10.40	95.62	4.08	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
429	5.160	19.60	0.00	10.40	95.63	4.08	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
430	5.150	19.60	0.00	10.40	95.66	4.09	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
431	5.140	19.60	0.00	10.41	95.71	4.09	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
432	5.130	19.60	0.00	10.42	95.85	4.10	0.67	0.00	0.67	0.00	0.01	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
433	5.120	19.60	0.00	10.45	96.23	4.10	0.68	0.00	0.68	0.00	0.02	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
434	5.110	19.60	0.00	10.53	97.35	4.12	0.70	0.00	0.70	0.00	0.03	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
435	5.100	19.60	0.00	10.79	100.79	4.18	0.76	0.00	0.76	0.00	0.08	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 23 Hwy434/I-12DitchBBBtoFolgerDitch Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
501	UPR RCH	0.15651	19.60	0.00	10.79	100.79	4.18	0.76	0.00	0.76	0.00	0.08	0.00	0.00	0.00	2.60	0.00	0.00
501	TRIB	0.00612	19.60	0.20	36.18	434.37	9.03	6.30	0.00	6.30	0.00	4.66	0.00	0.00	0.00	2.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
501	5.10	5.09	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	16.69	0.000	1.000	0.114
502	5.09	5.08	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	19.47	0.000	1.000	0.114
503	5.08	5.07	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	22.25	0.000	1.000	0.114
504	5.07	5.06	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	25.03	0.000	1.000	0.114
505	5.06	5.05	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	27.82	0.000	1.000	0.114
506	5.05	5.04	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	30.60	0.000	1.000	0.114
507	5.04	5.03	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	33.38	0.001	1.000	0.114
508	5.03	5.02	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	36.16	0.001	1.000	0.114
509	5.02	5.01	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	38.94	0.001	1.000	0.114
510	5.01	5.00	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	41.72	0.001	1.000	0.114
511	5.00	4.99	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	44.51	0.001	1.000	0.114
512	4.99	4.98	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	47.29	0.001	1.000	0.114
513	4.98	4.97	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	50.07	0.001	1.000	0.114
514	4.97	4.96	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	52.85	0.001	1.000	0.114
515	4.96	4.95	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	55.63	0.001	1.000	0.114
516	4.95	4.94	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	58.41	0.001	1.000	0.114
517	4.94	4.93	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	61.20	0.001	1.000	0.114
518	4.93	4.92	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	63.98	0.001	1.000	0.114
519	4.92	4.91	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	66.76	0.001	1.000	0.114
520	4.91	4.90	0.16263	2.0	0.11393	0.00	0.39	3.66	14.27	36.60	1.43	69.54	0.001	1.000	0.114
TOT						0.02			285.48	732.00					
AVG					0.1139		0.39	3.66			1.43				
CUM						0.05									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
501	5.090	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
502	5.080	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
503	5.070	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
504	5.060	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
505	5.050	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
506	5.040	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
507	5.030	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
508	5.020	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
509	5.010	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
510	5.000	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
511	4.990	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
512	4.980	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
513	4.970	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
514	4.960	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
515	4.950	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
516	4.940	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
517	4.930	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
518	4.920	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.51	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
519	4.910	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.52	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
520	4.900	9.16	2.45	0.07	0.05	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.52	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.47	0.07	0.05	0.00	0.00	0.00	0.00	0.50			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
501	5.090	19.60	0.01	11.37	108.37	4.30	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
502	5.080	19.60	0.01	11.37	108.37	4.32	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
503	5.070	19.60	0.01	11.37	108.37	4.33	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
504	5.060	19.60	0.01	11.37	108.37	4.34	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
505	5.050	19.60	0.01	11.37	108.37	4.35	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
506	5.040	19.60	0.01	11.37	108.37	4.36	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
507	5.030	19.60	0.01	11.37	108.37	4.37	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

508	5.020	19.60	0.01	11.37	108.37	4.38	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
509	5.010	19.60	0.01	11.37	108.37	4.39	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
510	5.000	19.60	0.01	11.37	108.37	4.40	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
511	4.990	19.60	0.01	11.37	108.37	4.41	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
512	4.980	19.60	0.01	11.37	108.37	4.42	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
513	4.970	19.60	0.01	11.37	108.37	4.43	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
514	4.960	19.60	0.01	11.37	108.37	4.44	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
515	4.950	19.60	0.01	11.37	108.37	4.45	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
516	4.940	19.60	0.01	11.37	108.37	4.46	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
517	4.930	19.60	0.01	11.37	108.38	4.48	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
518	4.920	19.60	0.01	11.37	108.40	4.49	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
519	4.910	19.60	0.01	11.38	108.43	4.51	0.88	0.00	0.88	0.00	0.18	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
520	4.900	19.60	0.01	11.38	108.51	4.53	0.89	0.00	0.89	0.00	0.19	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 25 Folger Ditch to BB02 Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
525	UPR RCH	0.16263	19.60	0.01	11.38	108.51	4.53	0.89	0.00	0.89	0.00	0.19	0.00	0.00	0.00	2.60	0.00	0.00
525	TRIB	0.00302	19.60	0.03	13.85	140.90	7.94	2.17	0.00	2.17	0.00	0.86	0.00	0.00	0.00	2.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
525	4.90	4.80	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	111.26	0.002	2.000	0.116
526	4.80	4.70	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	152.99	0.002	2.000	0.116
527	4.70	4.60	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	194.71	0.003	2.000	0.116
528	4.60	4.50	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	236.44	0.004	2.000	0.116
529	4.50	4.40	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	278.16	0.004	2.000	0.116
530	4.40	4.30	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	319.88	0.005	2.000	0.116
531	4.30	4.20	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	361.61	0.006	2.000	0.116
532	4.20	4.10	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	403.33	0.006	2.000	0.116
533	4.10	4.00	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	445.06	0.007	2.000	0.116
534	4.00	3.90	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	486.78	0.008	2.000	0.116
535	3.90	3.80	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	528.50	0.008	2.000	0.116
536	3.80	3.70	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	570.23	0.009	2.000	0.116
537	3.70	3.60	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	611.95	0.010	2.000	0.116
538	3.60	3.50	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	653.68	0.010	2.000	0.116
539	3.50	3.40	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	695.40	0.011	2.000	0.116
540	3.40	3.30	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	737.12	0.011	2.000	0.116
541	3.30	3.20	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	778.85	0.012	2.000	0.116
542	3.20	3.10	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	820.57	0.013	2.000	0.116
543	3.10	3.00	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	862.30	0.013	2.000	0.116
544	3.00	2.90	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	904.02	0.014	2.000	0.116
545	2.90	2.80	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	945.74	0.015	2.000	0.116
546	2.80	2.70	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	987.47	0.015	2.000	0.116
547	2.70	2.60	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	1029.19	0.016	2.000	0.116
548	2.60	2.50	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	1070.92	0.017	2.000	0.116
549	2.50	2.40	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	1112.64	0.017	2.000	0.116
550	2.40	2.30	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	1154.36	0.018	2.000	0.116
551	2.30	2.20	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	1196.09	0.019	2.000	0.116
552	2.20	2.10	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	1237.81	0.019	2.000	0.116
553	2.10	2.00	0.16565	2.1	0.11605	0.01	0.39	3.66	142.74	366.00	1.43	1279.54	0.020	2.000	0.116
TOT						0.29			4139.46	10614.00					
AVG					0.1160		0.39	3.66			1.43				
CUM						0.34									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
525	4.800	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
526	4.700	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.52	0.05	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
527	4.600	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.52	0.05	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
528	4.500	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.52	0.05	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
529	4.400	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.53	0.05	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
530	4.300	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.53	0.05	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
531	4.200	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.53	0.05	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
532	4.100	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.53	0.05	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
533	4.000	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.53	0.05	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00

534	3.900	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.53	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
535	3.800	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.53	0.05	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
536	3.700	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.54	0.05	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
537	3.600	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.54	0.05	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
538	3.500	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.54	0.05	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
539	3.400	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.54	0.05	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
540	3.300	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.54	0.05	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
541	3.200	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.54	0.05	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
542	3.100	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.54	0.05	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
543	3.000	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.54	0.05	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
544	2.900	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.54	0.05	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
545	2.800	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.54	0.05	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
546	2.700	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.55	0.05	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
547	2.600	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.55	0.05	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
548	2.500	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.55	0.05	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00
549	2.400	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.55	0.05	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
550	2.300	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.55	0.05	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
551	2.200	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.55	0.05	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
552	2.100	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.55	0.05	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
553	2.000	9.16	2.46	0.07	0.05	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.55	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.48	0.07	0.05	0.00	0.00	0.00	0.00	1.50			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
525	4.800	19.60	0.01	11.42	108.96	4.64	0.92	0.00	0.92	0.00	0.19	0.00	0.00	0.00	0.00	2.86	0.00	0.	0.00
526	4.700	19.60	0.01	11.42	108.96	4.71	0.93	0.00	0.93	0.00	0.19	0.00	0.00	0.00	0.00	3.11	0.00	0.	0.00
527	4.600	19.60	0.01	11.42	108.96	4.78	0.95	0.00	0.95	0.00	0.19	0.00	0.00	0.00	0.00	3.37	0.00	0.	0.00
528	4.500	19.60	0.01	11.42	108.96	4.85	0.96	0.00	0.96	0.00	0.19	0.00	0.00	0.00	0.00	3.62	0.00	0.	0.00
529	4.400	19.60	0.01	11.42	108.96	4.92	0.97	0.00	0.97	0.00	0.19	0.00	0.00	0.00	0.00	3.88	0.00	0.	0.00
530	4.300	19.60	0.01	11.42	108.96	4.98	0.99	0.00	0.99	0.00	0.19	0.00	0.00	0.00	0.00	4.13	0.00	0.	0.00
531	4.200	19.60	0.01	11.42	108.96	5.05	1.00	0.00	1.00	0.00	0.19	0.00	0.00	0.00	0.00	4.39	0.00	0.	0.00
532	4.100	19.60	0.01	11.42	108.96	5.11	1.02	0.00	1.02	0.00	0.19	0.00	0.00	0.00	0.00	4.64	0.00	0.	0.00
533	4.000	19.60	0.01	11.42	108.96	5.17	1.03	0.00	1.03	0.00	0.19	0.00	0.00	0.00	0.00	4.90	0.00	0.	0.00
534	3.900	19.60	0.01	11.42	108.96	5.23	1.04	0.00	1.04	0.00	0.18	0.00	0.00	0.00	0.00	5.15	0.00	0.	0.00
535	3.800	19.60	0.01	11.42	108.96	5.29	1.06	0.00	1.06	0.00	0.18	0.00	0.00	0.00	0.00	5.41	0.00	0.	0.00
536	3.700	19.60	0.01	11.42	108.96	5.35	1.07	0.00	1.07	0.00	0.18	0.00	0.00	0.00	0.00	5.66	0.00	0.	0.00
537	3.600	19.60	0.01	11.42	108.96	5.40	1.09	0.00	1.09	0.00	0.18	0.00	0.00	0.00	0.00	5.92	0.00	0.	0.00
538	3.500	19.60	0.01	11.42	108.96	5.46	1.10	0.00	1.10	0.00	0.18	0.00	0.00	0.00	0.00	6.17	0.00	0.	0.00
539	3.400	19.60	0.01	11.42	108.96	5.51	1.11	0.00	1.11	0.00	0.18	0.00	0.00	0.00	0.00	6.43	0.00	0.	0.00
540	3.300	19.60	0.01	11.42	108.96	5.56	1.13	0.00	1.13	0.00	0.18	0.00	0.00	0.00	0.00	6.68	0.00	0.	0.00
541	3.200	19.60	0.01	11.42	108.96	5.61	1.14	0.00	1.14	0.00	0.18	0.00	0.00	0.00	0.00	6.94	0.00	0.	0.00
542	3.100	19.60	0.01	11.42	108.96	5.66	1.15	0.00	1.15	0.00	0.18	0.00	0.00	0.00	0.00	7.19	0.00	0.	0.00
543	3.000	19.60	0.01	11.42	108.96	5.71	1.17	0.00	1.17	0.00	0.17	0.00	0.00	0.00	0.00	7.45	0.00	0.	0.00
544	2.900	19.60	0.01	11.42	108.96	5.76	1.18	0.00	1.18	0.00	0.17	0.00	0.00	0.00	0.00	7.70	0.00	0.	0.00
545	2.800	19.60	0.01	11.42	108.96	5.81	1.19	0.00	1.19	0.00	0.17	0.00	0.00	0.00	0.00	7.96	0.00	0.	0.00
546	2.700	19.60	0.01	11.42	108.96	5.85	1.21	0.00	1.21	0.00	0.17	0.00	0.00	0.00	0.00	8.21	0.00	0.	0.00
547	2.600	19.60	0.01	11.42	108.96	5.90	1.22	0.00	1.22	0.00	0.17	0.00	0.00	0.00	0.00	8.47	0.00	0.	0.00
548	2.500	19.60	0.01	11.42	108.96	5.94	1.24	0.00	1.24	0.00	0.17	0.00	0.00	0.00	0.00	8.72	0.00	0.	0.00
549	2.400	19.60	0.01	11.42	108.96	5.99	1.25	0.00	1.25	0.00	0.17	0.00	0.00	0.00	0.00	8.98	0.00	0.	0.00
550	2.300	19.60	0.01	11.42	108.97	6.03	1.26	0.00	1.26	0.00	0.17	0.00	0.00	0.00	0.00	9.23	0.00	0.	0.00
551	2.200	19.60	0.01	11.42	109.03	6.07	1.28	0.00	1.28	0.00	0.17	0.00	0.00	0.00	0.00	9.49	0.00	0.	0.00
552	2.100	19.60	0.01	11.47	109.40	6.12	1.31	0.00	1.31	0.00	0.17	0.00	0.00	0.00	0.00	9.74	0.00	0.	0.00
553	2.000	19.60	0.01	11.77	111.98	6.22	1.44	0.00	1.44	0.00	0.20	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 26 BB02 to Berry Todd Rd Ditch Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
554	UPR RCH	0.16565	19.60	0.01	11.77	111.98	6.22	1.44	0.00	1.44	0.00	0.20	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
554	2.00	1.99	0.16565	2.1	0.00970	0.01	1.12	15.24	170.69	152.40	17.07	1302.70	0.002	2.500	0.010
555	1.99	1.98	0.16565	2.1	0.00970	0.01	1.12	15.24	170.69	152.40	17.07	1325.87	0.002	2.500	0.010
556	1.98	1.97	0.16565	2.1	0.00970	0.01	1.12	15.24	170.69	152.40	17.07	1349.03	0.002	2.500	0.010
557	1.97	1.96	0.16565	2.1	0.00970	0.01	1.12	15.24	170.69	152.40	17.07	1372.20	0.002	2.500	0.010

558	1.96	1.95	0.16565	2.1	0.00970	0.01	1.12	15.24	170.69	152.40	17.07	1395.36	0.002	2.500	0.010
559	1.95	1.94	0.16565	2.1	0.00970	0.01	1.12	15.24	170.69	152.40	17.07	1418.52	0.002	2.500	0.010
560	1.94	1.93	0.16565	2.1	0.00970	0.01	1.12	15.24	170.69	152.40	17.07	1441.69	0.002	2.500	0.010
561	1.93	1.92	0.16565	2.1	0.00970	0.01	1.12	15.24	170.69	152.40	17.07	1464.85	0.002	2.500	0.010
562	1.92	1.91	0.16565	2.1	0.00970	0.01	1.12	15.24	170.69	152.40	17.07	1488.02	0.002	2.500	0.010
563	1.91	1.90	0.16565	2.1	0.00970	0.01	1.12	15.24	170.69	152.40	17.07	1511.18	0.002	2.500	0.010
TOT						0.12			1706.88	1524.00					
AVG					0.0097		1.12	15.24			17.07				
CUM						0.45									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
554	1.990	9.16	0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.10	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
555	1.980	9.16	0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.10	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
556	1.970	9.16	0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.10	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
557	1.960	9.16	0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.10	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
558	1.950	9.16	0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.10	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
559	1.940	9.16	0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.10	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
560	1.930	9.16	0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.10	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
561	1.920	9.16	0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.10	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
562	1.910	9.16	0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.10	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
563	1.900	9.16	0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.10	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.75			0.11	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
554	1.990	19.60	0.01	12.27	116.24	6.34	1.65	0.00	1.65	0.00	0.25	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
555	1.980	19.60	0.01	12.30	116.52	6.34	1.66	0.00	1.66	0.00	0.25	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
556	1.970	19.60	0.01	12.33	116.82	6.35	1.67	0.00	1.67	0.00	0.26	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
557	1.960	19.60	0.01	12.37	117.12	6.36	1.69	0.00	1.69	0.00	0.26	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
558	1.950	19.60	0.01	12.41	117.44	6.37	1.70	0.00	1.70	0.00	0.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
559	1.940	19.60	0.01	12.45	117.77	6.37	1.72	0.00	1.72	0.00	0.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
560	1.930	19.60	0.01	12.49	118.11	6.38	1.74	0.00	1.74	0.00	0.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
561	1.920	19.60	0.01	12.53	118.46	6.39	1.75	0.00	1.75	0.00	0.28	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
562	1.910	19.60	0.01	12.57	118.83	6.40	1.77	0.00	1.77	0.00	0.28	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
563	1.900	19.60	0.01	12.62	119.22	6.40	1.79	0.00	1.79	0.00	0.29	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 28 BerryToddRdDitchtoHwy190DitchBBB Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
584	UPR RCH	0.16565	19.60	0.01	12.62	119.22	6.40	1.79	0.00	1.79	0.00	0.29	0.00	0.00	0.00	10.00	0.00	0.00
584	TRIB	0.00587	19.60	0.19	35.23	421.85	8.95	12.01	0.00	12.01	0.00	4.55	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
584	1.90	1.80	0.17152	3.9	0.01005	0.12	1.12	15.24	1706.88	1524.00	17.07	1742.83	0.002	3.500	0.010
585	1.80	1.70	0.17152	3.9	0.01005	0.12	1.12	15.24	1706.88	1524.00	17.07	1974.48	0.003	3.500	0.010
586	1.70	1.60	0.17152	3.9	0.01005	0.12	1.12	15.24	1706.88	1524.00	17.07	2206.13	0.003	3.500	0.010
587	1.60	1.50	0.17152	3.9	0.01005	0.12	1.12	15.24	1706.88	1524.00	17.07	2437.78	0.003	3.500	0.010
588	1.50	1.40	0.17152	3.9	0.01005	0.12	1.12	15.24	1706.88	1524.00	17.07	2669.42	0.003	3.500	0.010
589	1.40	1.30	0.17152	3.9	0.01005	0.12	1.12	15.24	1706.88	1524.00	17.07	2901.07	0.004	3.500	0.010
590	1.30	1.20	0.17152	3.9	0.01005	0.12	1.12	15.24	1706.88	1524.00	17.07	3132.72	0.004	3.500	0.010
591	1.20	1.10	0.17152	3.9	0.01005	0.12	1.12	15.24	1706.88	1524.00	17.07	3364.37	0.004	3.500	0.010
592	1.10	1.00	0.17152	3.9	0.01005	0.12	1.12	15.24	1706.88	1524.00	17.07	3596.02	0.005	3.500	0.010
593	1.00	0.90	0.17152	3.9	0.01005	0.12	1.12	15.24	1706.88	1524.00	17.07	3827.66	0.005	3.500	0.010
594	0.90	0.80	0.17152	3.9	0.01005	0.12	1.12	15.24	1706.88	1524.00	17.07	4059.31	0.005	3.500	0.010
TOT						1.27			18775.68	16764.00					
AVG					0.0100		1.12	15.24			17.07				

CUM 1.72

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
584	1.800	9.10	0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.74	1.74	1.74	0.10	0.05	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
585	1.700	9.04	0.63	0.05	0.05	0.00	0.00	0.00	0.00	1.78	1.78	1.78	0.10	0.05	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
586	1.600	8.98	0.63	0.05	0.05	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.11	0.05	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
587	1.500	8.92	0.64	0.06	0.05	0.00	0.00	0.00	0.00	1.86	1.86	1.86	0.11	0.05	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
588	1.400	8.86	0.64	0.06	0.05	0.00	0.00	0.00	0.00	1.90	1.90	1.90	0.11	0.05	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
589	1.300	8.81	0.65	0.06	0.05	0.00	0.00	0.00	0.00	1.94	1.94	1.94	0.11	0.05	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
590	1.200	8.75	0.65	0.06	0.05	0.00	0.00	0.00	0.00	1.98	1.98	1.98	0.12	0.05	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
591	1.100	8.69	0.65	0.06	0.05	0.00	0.00	0.00	0.00	2.02	2.02	2.02	0.12	0.05	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
592	1.000	8.64	0.66	0.06	0.05	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.12	0.05	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
593	0.900	8.58	0.66	0.06	0.05	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.12	0.05	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
594	0.800	8.53	0.67	0.06	0.05	0.00	0.00	0.00	0.00	2.15	2.15	2.15	0.13	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.75			0.11	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
584	1.800	19.94	0.02	12.80	120.82	6.44	1.87	0.00	1.87	0.00	0.31	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
585	1.700	20.27	0.02	12.97	121.15	6.46	1.93	0.00	1.93	0.00	0.31	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
586	1.600	20.61	0.02	13.18	121.58	6.47	1.99	0.00	1.99	0.00	0.31	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
587	1.500	20.95	0.02	13.45	122.13	6.48	2.06	0.00	2.06	0.00	0.31	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
588	1.400	21.28	0.02	13.80	122.84	6.48	2.15	0.00	2.15	0.00	0.32	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
589	1.300	21.62	0.02	14.25	123.76	6.48	2.25	0.00	2.25	0.00	0.33	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
590	1.200	21.95	0.02	14.83	124.93	6.47	2.37	0.00	2.37	0.00	0.35	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
591	1.100	22.29	0.02	15.58	126.44	6.45	2.52	0.00	2.52	0.00	0.37	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
592	1.000	22.63	0.02	16.54	128.39	6.43	2.71	0.00	2.71	0.00	0.41	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
593	0.900	22.96	0.03	17.78	130.90	6.41	2.95	0.00	2.95	0.00	0.45	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
594	0.800	23.30	0.03	19.37	134.12	6.38	3.25	0.00	3.25	0.00	0.51	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 30 Hwy 190 Ditch BBB to BB01 Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
608	UPR RCH	0.17152	23.30	0.03	19.37	134.12	6.38	3.25	0.00	3.25	0.00	0.51	0.00	0.00	0.00	10.00	0.00	0.00
608	TRIB	0.00281	23.30	0.00	10.53	97.32	8.50	0.61	0.00	0.61	0.00	0.27	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
608	0.80	0.70	0.17432	3.8	0.01021	0.11	1.12	15.24	1706.88	1524.00	17.07	4290.96	0.006	5.500	0.010
609	0.70	0.60	0.17432	3.8	0.01021	0.11	1.12	15.24	1706.88	1524.00	17.07	4522.61	0.006	5.500	0.010
610	0.60	0.50	0.17432	3.8	0.01021	0.11	1.12	15.24	1706.88	1524.00	17.07	4754.26	0.006	5.500	0.010
611	0.50	0.40	0.17432	3.8	0.01021	0.11	1.12	15.24	1706.88	1524.00	17.07	4985.90	0.006	5.500	0.010
612	0.40	0.30	0.17432	3.8	0.01021	0.11	1.12	15.24	1706.88	1524.00	17.07	5217.55	0.007	5.500	0.010
TOT						0.57			8534.40	7620.00					
AVG					0.0102		1.12	15.24			17.07				
CUM						2.29									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
608	0.700	8.53	0.67	0.06	0.05	0.00	0.00	0.00	0.00	2.15	2.15	2.15	0.13	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
609	0.600	8.53	0.67	0.06	0.05	0.00	0.00	0.00	0.00	2.15	2.15	2.15	0.13	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
610	0.500	8.53	0.67	0.06	0.05	0.00	0.00	0.00	0.00	2.15	2.15	2.15	0.13	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
611	0.400	8.53	0.67	0.06	0.05	0.00	0.00	0.00	0.00	2.15	2.15	2.15	0.13	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00

612	0.300	8.53	0.67	0.06	0.05	0.00	0.00	0.00	0.00	2.15	2.15	2.15	0.13	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.62	0.05	0.05	0.00	0.00	0.00	0.00	1.75			0.11	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
608	0.700	23.30	0.03	20.96	137.35	6.35	3.55	0.00	3.55	0.00	0.57	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
609	0.600	23.30	0.04	22.59	140.70	6.32	3.84	0.00	3.84	0.00	0.63	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
610	0.500	23.30	0.04	24.52	144.68	6.29	4.18	0.00	4.18	0.00	0.71	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
611	0.400	23.30	0.05	26.80	149.39	6.26	4.57	0.00	4.57	0.00	0.81	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
612	0.300	23.30	0.05	29.51	154.97	6.23	5.02	0.00	5.02	0.00	0.93	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 31 BB01toConfluenceWithBayouLacombe Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
613	UPR RCH	0.17432	23.30	0.05	29.51	154.97	6.23	5.02	0.00	5.02	0.00	0.93	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
613	0.30	0.20	0.17432	3.8	0.00207	0.56	2.13	39.62	8439.06	3962.00	84.39	5819.78	0.002	7.500	0.002
614	0.20	0.10	0.17432	3.8	0.00207	0.56	2.13	39.62	8439.06	3962.00	84.39	6422.00	0.002	7.500	0.002
615	0.10	0.00	0.17432	3.8	0.00207	0.56	2.13	39.62	8439.06	3962.00	84.39	7024.22	0.002	7.500	0.002
TOT						1.68			25317.18	11886.00					
AVG					0.0021		2.13	39.62			84.39				
CUM						3.97									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
613	0.200	8.53	0.35	0.06	0.05	0.00	0.00	0.00	0.00	2.15	2.15	2.15	0.05	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
614	0.100	8.53	0.35	0.06	0.05	0.00	0.00	0.00	0.00	2.15	2.15	2.15	0.05	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
615	0.000	8.53	0.35	0.06	0.05	0.00	0.00	0.00	0.00	2.15	2.15	2.15	0.05	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.33	0.05	0.05	0.00	0.00	0.00	0.00	1.75			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
613	0.200	23.30	0.06	30.35	156.69	6.23	5.16	0.00	5.16	0.00	0.96	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
614	0.100	23.30	0.06	30.84	157.71	6.22	5.19	0.00	5.19	0.00	0.96	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
615	0.000	23.30	0.06	31.36	158.77	6.21	5.17	0.00	5.17	0.00	0.92	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY BAYOU LACOMBE WATERSHED MODEL
Big Branch Bayou Winter 4,5 DO curr criteria

TRAVEL TIME = 3.97 DAYS

MAXIMUM EFFLUENT = 3.85 PERCENT

FLOW	=	0.02375	TO	0.17432	m³/s
DISPERSION	=	0.5000	TO	7.5000	m²/s
VELOCITY	=	0.00207	TO	0.11605	m/s
DEPTH	=	0.39	TO	2.13	m
WIDTH	=	3.66	TO	39.62	m

BOD DECAY	=	0.05	TO	0.07	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.49	TO	2.15	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	0.35	TO	2.46	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.05	TO	0.55	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	19.60	TO	23.30	deg C
DISSOLVED OXYGEN	=	4.07	TO	6.48	mg/L

FINAL REPORT Dich#8Hwy434/I-12BBB BAYOU LACOMBE WATERSHED MODEL
REACH NO. 22 Hwy 434/I-12 Ditch BBB Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
436	HDWTR	0.00280	19.60	0.00	10.40	95.61	4.00	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
442	WSTLD	0.00004	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00
464	WSTLD	0.00329	30.60	0.37	57.90	719.70	2.00	11.50	0.00	11.50	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
436	6.50	6.40	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
437	6.40	6.30	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
438	6.30	6.20	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
439	6.20	6.10	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
440	6.10	6.00	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
441	6.00	5.90	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
442	5.90	5.80	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
443	5.80	5.70	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
444	5.70	5.60	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
445	5.60	5.50	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
446	5.50	5.40	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
447	5.40	5.30	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
448	5.30	5.20	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
449	5.20	5.10	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
450	5.10	5.00	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
451	5.00	4.90	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
452	4.90	4.80	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
453	4.80	4.70	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
454	4.70	4.60	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
455	4.60	4.50	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
456	4.50	4.40	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
457	4.40	4.30	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
458	4.30	4.20	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
459	4.20	4.10	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
460	4.10	4.00	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
461	4.00	3.90	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
462	3.90	3.80	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
463	3.80	3.70	0.00284	1.4	0.05677	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.057
464	3.70	3.60	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
465	3.60	3.50	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
466	3.50	3.40	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
467	3.40	3.30	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
468	3.30	3.20	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
469	3.20	3.10	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
470	3.10	3.00	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
471	3.00	2.90	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
472	2.90	2.80	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
473	2.80	2.70	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
474	2.70	2.60	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
475	2.60	2.50	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
476	2.50	2.40	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
477	2.40	2.30	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
478	2.30	2.20	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
479	2.20	2.10	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
480	2.10	2.00	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
481	2.00	1.90	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
482	1.90	1.80	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
483	1.80	1.70	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
484	1.70	1.60	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
485	1.60	1.50	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
486	1.50	1.40	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122

487	1.40	1.30	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
488	1.30	1.20	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
489	1.20	1.10	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
490	1.10	1.00	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
491	1.00	0.90	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
492	0.90	0.80	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
493	0.80	0.70	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
494	0.70	0.60	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
495	0.60	0.50	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
496	0.50	0.40	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
497	0.40	0.30	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
498	0.30	0.20	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
499	0.20	0.10	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
500	0.10	0.00	0.00612	54.3	0.12249	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.122
TOT						0.92			325.00	6500.00					
AVG					0.0816		0.05	1.00			0.05				
CUM						0.92									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
436	6.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
437	6.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
438	6.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
439	6.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
440	6.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
441	5.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
442	5.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
443	5.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
444	5.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
445	5.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
446	5.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
447	5.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
448	5.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
449	5.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
450	5.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
451	4.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
452	4.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
453	4.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
454	4.600	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
455	4.500	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
456	4.400	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
457	4.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
458	4.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
459	4.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
460	4.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
461	3.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
462	3.800	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
463	3.700	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
464	3.600	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
465	3.500	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
466	3.400	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
467	3.300	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
468	3.200	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
469	3.100	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
470	3.000	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
471	2.900	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
472	2.800	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
473	2.700	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
474	2.600	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
475	2.500	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
476	2.400	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
477	2.300	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
478	2.200	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
479	2.100	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
480	2.000	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
481	1.900	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
482	1.800	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
483	1.700	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
484	1.600	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
485	1.500	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
486	1.400	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
487	1.300	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
488	1.200	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
489	1.100	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
490	1.000	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
491	0.900	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
492	0.800	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
493	0.700	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00

494	0.600	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
495	0.500	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
496	0.400	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
497	0.300	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
498	0.200	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
499	0.100	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
500	0.000	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			25.00	0.08	0.05	0.00	0.00	0.00	0.00	0.12			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
436	6.400	19.60	0.00	10.40	95.61	5.72	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.04	0.00	0.	0.00
437	6.300	19.60	0.00	10.40	95.61	6.85	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.08	0.00	0.	0.00
438	6.200	19.60	0.00	10.40	95.61	7.60	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.12	0.00	0.	0.00
439	6.100	19.60	0.00	10.40	95.61	8.10	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.16	0.00	0.	0.00
440	6.000	19.60	0.00	10.40	95.61	8.43	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.20	0.00	0.	0.00
441	5.900	19.60	0.00	10.40	95.61	8.64	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.24	0.00	0.	0.00
442	5.800	19.60	0.01	11.04	104.05	8.72	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.28	0.00	0.	0.00
443	5.700	19.60	0.01	11.04	104.05	8.84	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.32	0.00	0.	0.00
444	5.600	19.60	0.01	11.04	104.05	8.91	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.36	0.00	0.	0.00
445	5.500	19.60	0.01	11.04	104.05	8.96	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.40	0.00	0.	0.00
446	5.400	19.60	0.01	11.04	104.05	9.00	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.44	0.00	0.	0.00
447	5.300	19.60	0.01	11.04	104.05	9.02	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.48	0.00	0.	0.00
448	5.200	19.60	0.01	11.04	104.05	9.03	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.52	0.00	0.	0.00
449	5.100	19.60	0.01	11.04	104.05	9.04	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.56	0.00	0.	0.00
450	5.000	19.60	0.01	11.04	104.05	9.05	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.60	0.00	0.	0.00
451	4.900	19.60	0.01	11.04	104.05	9.06	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.64	0.00	0.	0.00
452	4.800	19.60	0.01	11.04	104.05	9.06	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.68	0.00	0.	0.00
453	4.700	19.60	0.01	11.04	104.05	9.06	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.72	0.00	0.	0.00
454	4.600	19.60	0.01	11.04	104.05	9.06	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.76	0.00	0.	0.00
455	4.500	19.60	0.01	11.04	104.05	9.06	0.85	0.00	0.85	0.00	0.36	0.00	0.00	0.00	0.00	0.80	0.00	0.	0.00
456	4.400	19.60	0.01	11.04	104.05	9.06	0.84	0.00	0.84	0.00	0.36	0.00	0.00	0.00	0.00	0.84	0.00	0.	0.00
457	4.300	19.60	0.01	11.04	104.05	9.06	0.84	0.00	0.84	0.00	0.36	0.00	0.00	0.00	0.00	0.88	0.00	0.	0.00
458	4.200	19.60	0.01	11.04	104.05	9.06	0.84	0.00	0.84	0.00	0.36	0.00	0.00	0.00	0.00	0.92	0.00	0.	0.00
459	4.100	19.60	0.01	11.04	104.05	9.06	0.84	0.00	0.84	0.00	0.36	0.00	0.00	0.00	0.00	0.96	0.00	0.	0.00
460	4.000	19.60	0.01	11.04	104.05	9.06	0.84	0.00	0.84	0.00	0.36	0.00	0.00	0.00	0.00	1.00	0.00	0.	0.00
461	3.900	19.60	0.01	11.04	104.05	9.06	0.84	0.00	0.84	0.00	0.36	0.00	0.00	0.00	0.00	1.04	0.00	0.	0.00
462	3.800	19.60	0.01	11.04	104.05	9.06	0.84	0.00	0.84	0.00	0.36	0.00	0.00	0.00	0.00	1.08	0.00	0.	0.00
463	3.700	19.60	0.01	11.04	104.05	9.07	0.84	0.00	0.84	0.00	0.36	0.00	0.00	0.00	0.00	1.12	0.00	0.	0.00
464	3.600	19.60	0.20	36.18	434.37	5.99	6.55	0.00	6.55	0.00	4.78	0.00	0.00	0.00	0.00	1.16	0.00	0.	0.00
465	3.500	19.60	0.20	36.18	434.37	6.57	6.55	0.00	6.55	0.00	4.77	0.00	0.00	0.00	0.00	1.20	0.00	0.	0.00
466	3.400	19.60	0.20	36.18	434.37	7.03	6.54	0.00	6.54	0.00	4.77	0.00	0.00	0.00	0.00	1.24	0.00	0.	0.00
467	3.300	19.60	0.20	36.18	434.37	7.41	6.53	0.00	6.53	0.00	4.77	0.00	0.00	0.00	0.00	1.28	0.00	0.	0.00
468	3.200	19.60	0.20	36.18	434.37	7.72	6.52	0.00	6.52	0.00	4.76	0.00	0.00	0.00	0.00	1.32	0.00	0.	0.00
469	3.100	19.60	0.20	36.18	434.37	7.97	6.52	0.00	6.52	0.00	4.76	0.00	0.00	0.00	0.00	1.36	0.00	0.	0.00
470	3.000	19.60	0.20	36.18	434.37	8.17	6.51	0.00	6.51	0.00	4.76	0.00	0.00	0.00	0.00	1.40	0.00	0.	0.00
471	2.900	19.60	0.20	36.18	434.37	8.33	6.50	0.00	6.50	0.00	4.75	0.00	0.00	0.00	0.00	1.44	0.00	0.	0.00
472	2.800	19.60	0.20	36.18	434.37	8.47	6.50	0.00	6.50	0.00	4.75	0.00	0.00	0.00	0.00	1.48	0.00	0.	0.00
473	2.700	19.60	0.20	36.18	434.37	8.57	6.49	0.00	6.49	0.00	4.75	0.00	0.00	0.00	0.00	1.52	0.00	0.	0.00
474	2.600	19.60	0.20	36.18	434.37	8.66	6.48	0.00	6.48	0.00	4.74	0.00	0.00	0.00	0.00	1.56	0.00	0.	0.00
475	2.500	19.60	0.20	36.18	434.37	8.73	6.47	0.00	6.47	0.00	4.74	0.00	0.00	0.00	0.00	1.60	0.00	0.	0.00
476	2.400	19.60	0.20	36.18	434.37	8.79	6.47	0.00	6.47	0.00	4.74	0.00	0.00	0.00	0.00	1.64	0.00	0.	0.00
477	2.300	19.60	0.20	36.18	434.37	8.84	6.46	0.00	6.46	0.00	4.73	0.00	0.00	0.00	0.00	1.68	0.00	0.	0.00
478	2.200	19.60	0.20	36.18	434.37	8.87	6.45	0.00	6.45	0.00	4.73	0.00	0.00	0.00	0.00	1.72	0.00	0.	0.00
479	2.100	19.60	0.20	36.18	434.37	8.90	6.45	0.00	6.45	0.00	4.73	0.00	0.00	0.00	0.00	1.76	0.00	0.	0.00
480	2.000	19.60	0.20	36.18	434.37	8.93	6.44	0.00	6.44	0.00	4.72	0.00	0.00	0.00	0.00	1.80	0.00	0.	0.00
481	1.900	19.60	0.20	36.18	434.37	8.95	6.43	0.00	6.43	0.00	4.72	0.00	0.00	0.00	0.00	1.84	0.00	0.	0.00
482	1.800	19.60	0.20	36.18	434.37	8.96	6.42	0.00	6.42	0.00	4.72	0.00	0.00	0.00	0.00	1.88	0.00	0.	0.00
483	1.700	19.60	0.20	36.18	434.37	8.98	6.42	0.00	6.42	0.00	4.72	0.00	0.00	0.00	0.00	1.92	0.00	0.	0.00
484	1.600	19.60	0.20	36.18	434.37	8.99	6.41	0.00	6.41	0.00	4.71	0.00	0.00	0.00	0.00	1.96	0.00	0.	0.00
485	1.500	19.60	0.20	36.18	434.37	9.00	6.40	0.00	6.40	0.00	4.71	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
486	1.400	19.60	0.20	36.18	434.37	9.00	6.40	0.00	6.40	0.00	4.71	0.00	0.00	0.00	0.00	2.04	0.00	0.	0.00
487	1.300	19.60	0.20	36.18	434.37	9.01	6.39	0.00	6.39	0.00	4.70	0.00	0.00	0.00	0.00	2.08	0.00	0.	0.00
488	1.200	19.60	0.20	36.18	434.37	9.01	6.38	0.00	6.38	0.00	4.70	0.00	0.00	0.00	0.00	2.12	0.00	0.	0.00
489	1.100	19.60	0.20	36.18	434.37	9.02	6.38	0.00	6.38	0.00	4.70	0.00	0.00	0.00	0.00	2.16	0.00	0.	0.00
490	1.000	19.60	0.20	36.18	434.37	9.02	6.37	0.00	6.37	0.00	4.69	0.00	0.00	0.00	0.00	2.20	0.00	0.	0.00
491	0.900	19.60	0.20	36.18	434.37	9.02	6.36	0.00	6.36	0.00	4.69	0.00	0.00	0.00	0.00	2.24	0.00	0.	0.00
492	0.800	19.60	0.20	36.18	434.37	9.03	6.35	0.00	6.35	0.00	4.69	0.00	0.00	0.00	0.00	2.28	0.00	0.	0.00
493	0.700	19.60	0.20	36.18	434.37	9.03	6.35	0.00	6.35	0.00	4.68	0.00	0.00	0.00	0.00	2.32	0.00	0.	0.00
494	0.600	19.60	0.20	36.18	434.37	9.03	6.34	0.00	6.34	0.00	4.68	0.00	0.00	0.00	0.00	2.36	0.00	0.	0.00
495	0.500	19.60	0.20	36.18	434.37	9.03	6.33	0.00	6.33	0.00	4.68	0.00	0.00	0.00	0.00	2.40	0.00	0.	0.00
496	0.400	19.60	0.20	36.18	434.37	9.03	6.33	0.00	6.33	0.00	4.67	0.00	0.00	0.00	0.00	2.44	0.00	0.	0.00
497	0.300	19.60	0.20	36.18	434.37	9.03	6.32	0.00	6.32	0.00	4.67	0.00	0.00	0.00	0.00	2.48	0.00	0.	0.00
498	0.200	19.60	0.20	36.18	434.37	9.03	6.31	0.00	6.31	0.00	4.67	0.00	0.00	0.00	0.00	2.52	0.00	0.	0.00
499	0.100	19.60	0.20	36.18	434.37	9.03	6.31	0.00	6.31	0.00	4.66	0.00	0.00	0.00	0.00	2.56	0.00	0.	0.00
500	0.000	19.60	0.20	36.18	434.37	9.03	6.30	0.00	6.30	0.00	4.66	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

STREAM SUMMARY
Dich#8Hwy434/I-12BBB

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

TRAVEL TIME	=	0.92	DAYS		
MAXIMUM EFFLUENT	=	54.28	PERCENT		
FLOW	=	0.00280	TO	0.00612	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.05600	TO	0.12249	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.08	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.12	TO	0.12	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	24.80	TO	24.80	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	19.60	TO	19.60	deg C
DISSOLVED OXYGEN	=	5.72	TO	9.07	mg/L

FINAL REPORT Ditch #9 Folger
REACH NO. 24 Folger Ditch

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
521	HDWTR	0.00280	19.60	0.00	10.40	95.61	4.00	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
522	WSTLD	0.00022	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
521	0.40	0.30	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
522	0.30	0.20	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
523	0.20	0.10	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
524	0.10	0.00	0.00302	7.3	0.06038	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.060
TOT						0.08			20.00	400.00					
AVG					0.0592		0.05	1.00			0.05				
CUM						0.08									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
521	0.300	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
522	0.200	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
523	0.100	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
524	0.000	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			25.00	0.08	0.05	0.00	0.00	0.00	0.00	0.12			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
521	0.300	19.60	0.00	10.40	95.61	5.72	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.65	0.00	0.	0.00
522	0.200	19.60	0.03	13.85	140.90	6.61	2.17	0.00	2.17	0.00	0.86	0.00	0.00	0.00	0.00	1.30	0.00	0.	0.00
523	0.100	19.60	0.03	13.85	140.90	7.40	2.17	0.00	2.17	0.00	0.86	0.00	0.00	0.00	0.00	1.95	0.00	0.	0.00
524	0.000	19.60	0.03	13.85	140.90	7.94	2.17	0.00	2.17	0.00	0.86	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

STREAM SUMMARY

BAYOU LACOMBE WATERSHED MODEL

Ditch #9 Folger Winter 4,5 DO curr criteria

TRAVEL TIME	=	0.08 DAYS			
MAXIMUM EFFLUENT	=	7.26 PERCENT			
FLOW	=	0.00280	TO	0.00302	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.05600	TO	0.06038	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.08	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.12	TO	0.12	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	24.80	TO	24.80	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	19.60	TO	19.60	deg C
DISSOLVED OXYGEN	=	5.72	TO	7.94	mg/L

FINAL REPORT Ditch A BerryTodd Rd BAYOU LACOMBE WATERSHED MODEL
REACH NO. 27 Berry Todd Rd Ditch Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
564	HDWTR	0.00280	19.60	0.00	10.40	95.61	4.00	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
565	WSTLD	0.00307	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
564	2.00	1.90	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
565	1.90	1.80	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
566	1.80	1.70	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
567	1.70	1.60	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
568	1.60	1.50	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
569	1.50	1.40	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
570	1.40	1.30	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
571	1.30	1.20	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
572	1.20	1.10	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
573	1.10	1.00	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
574	1.00	0.90	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
575	0.90	0.80	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
576	0.80	0.70	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
577	0.70	0.60	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
578	0.60	0.50	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
579	0.50	0.40	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
580	0.40	0.30	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
581	0.30	0.20	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
582	0.20	0.10	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
583	0.10	0.00	0.00587	52.3	0.11734	0.01	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.117
TOT						0.21			100.00	2000.00					
AVG					0.1112		0.05	1.00			0.05				
CUM						0.21									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
564	1.900	9.16	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
565	1.800	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
566	1.700	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
567	1.600	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
568	1.500	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
569	1.400	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
570	1.300	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
571	1.200	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00

572	1.100	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
573	1.000	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
574	0.900	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
575	0.800	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
576	0.700	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
577	0.600	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
578	0.500	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
579	0.400	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
580	0.300	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
581	0.200	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
582	0.100	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
583	0.000	9.15	24.80	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			25.00	0.08	0.05	0.00	0.00	0.00	0.00	0.12			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
564	1.900	19.60	0.00	10.40	95.61	5.72	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.50	0.00	0.	0.00
565	1.800	19.60	0.19	35.23	421.85	4.80	12.27	0.00	12.27	0.00	4.61	0.00	0.00	0.00	0.00	1.00	0.00	0.	0.00
566	1.700	19.60	0.19	35.23	421.85	5.63	12.26	0.00	12.26	0.00	4.61	0.00	0.00	0.00	0.00	1.50	0.00	0.	0.00
567	1.600	19.60	0.19	35.23	421.85	6.30	12.24	0.00	12.24	0.00	4.61	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
568	1.500	19.60	0.19	35.23	421.85	6.83	12.23	0.00	12.23	0.00	4.60	0.00	0.00	0.00	0.00	2.50	0.00	0.	0.00
569	1.400	19.60	0.19	35.23	421.85	7.26	12.21	0.00	12.21	0.00	4.60	0.00	0.00	0.00	0.00	3.00	0.00	0.	0.00
570	1.300	19.60	0.19	35.23	421.85	7.61	12.20	0.00	12.20	0.00	4.60	0.00	0.00	0.00	0.00	3.50	0.00	0.	0.00
571	1.200	19.60	0.19	35.23	421.85	7.88	12.18	0.00	12.18	0.00	4.59	0.00	0.00	0.00	0.00	4.00	0.00	0.	0.00
572	1.100	19.60	0.19	35.23	421.85	8.11	12.17	0.00	12.17	0.00	4.59	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.00
573	1.000	19.60	0.19	35.23	421.85	8.29	12.15	0.00	12.15	0.00	4.59	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00
574	0.900	19.60	0.19	35.23	421.85	8.43	12.14	0.00	12.14	0.00	4.58	0.00	0.00	0.00	0.00	5.50	0.00	0.	0.00
575	0.800	19.60	0.19	35.23	421.85	8.55	12.12	0.00	12.12	0.00	4.58	0.00	0.00	0.00	0.00	6.00	0.00	0.	0.00
576	0.700	19.60	0.19	35.23	421.85	8.64	12.11	0.00	12.11	0.00	4.57	0.00	0.00	0.00	0.00	6.50	0.00	0.	0.00
577	0.600	19.60	0.19	35.23	421.85	8.72	12.10	0.00	12.10	0.00	4.57	0.00	0.00	0.00	0.00	7.00	0.00	0.	0.00
578	0.500	19.60	0.19	35.23	421.85	8.78	12.08	0.00	12.08	0.00	4.57	0.00	0.00	0.00	0.00	7.50	0.00	0.	0.00
579	0.400	19.60	0.19	35.23	421.85	8.83	12.07	0.00	12.07	0.00	4.56	0.00	0.00	0.00	0.00	8.00	0.00	0.	0.00
580	0.300	19.60	0.19	35.23	421.85	8.87	12.05	0.00	12.05	0.00	4.56	0.00	0.00	0.00	0.00	8.50	0.00	0.	0.00
581	0.200	19.60	0.19	35.23	421.85	8.90	12.04	0.00	12.04	0.00	4.56	0.00	0.00	0.00	0.00	9.00	0.00	0.	0.00
582	0.100	19.60	0.19	35.23	421.85	8.93	12.02	0.00	12.02	0.00	4.55	0.00	0.00	0.00	0.00	9.50	0.00	0.	0.00
583	0.000	19.60	0.19	35.23	421.85	8.95	12.01	0.00	12.01	0.00	4.55	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY
Ditch A BerryTodd Rd

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

TRAVEL TIME	=	0.21	DAYS		
MAXIMUM EFFLUENT	=	52.27	PERCENT		
FLOW	=	0.00280	TO	0.00587	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.05600	TO	0.11734	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.08	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.12	TO	0.12	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	24.80	TO	24.80	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	19.60	TO	19.60	deg C
DISSOLVED OXYGEN	=	4.80	TO	8.95	mg/L

FINAL REPORT Ditch B Hwy 190 BBB
REACH NO. 29 Hwy 190 Ditch BBB

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
595	HDWTR	0.00280	19.60	0.00	10.40	95.61	4.00	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
596	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00
602	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
595	1.30	1.20	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
596	1.20	1.10	0.00281	0.2	0.05613	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
597	1.10	1.00	0.00281	0.2	0.05613	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
598	1.00	0.90	0.00281	0.2	0.05613	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
599	0.90	0.80	0.00281	0.2	0.05613	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
600	0.80	0.70	0.00281	0.2	0.05613	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
601	0.70	0.60	0.00281	0.2	0.05613	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
602	0.60	0.50	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
603	0.50	0.40	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
604	0.40	0.30	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
605	0.30	0.20	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
606	0.20	0.10	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
607	0.10	0.00	0.00281	0.3	0.05615	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
TOT						0.27			65.00	1300.00					
AVG					0.0561		0.05	1.00			0.05				
CUM						0.27									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
595	1.200	9.11	24.94	0.08	0.05	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
596	1.100	9.06	25.08	0.08	0.05	0.00	0.00	0.00	0.00	0.13	0.13	0.13	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
597	1.000	9.01	25.23	0.08	0.05	0.00	0.00	0.00	0.00	0.13	0.13	0.13	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
598	0.900	8.96	25.37	0.08	0.05	0.00	0.00	0.00	0.00	0.13	0.13	0.13	0.03	0.05	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
599	0.800	8.91	25.51	0.08	0.05	0.00	0.00	0.00	0.00	0.13	0.13	0.13	0.03	0.05	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
600	0.700	8.86	25.65	0.08	0.05	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.03	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
601	0.600	8.81	25.79	0.09	0.05	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.03	0.05	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
602	0.500	8.76	25.93	0.09	0.05	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.03	0.05	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
603	0.400	8.72	26.08	0.09	0.05	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.03	0.05	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
604	0.300	8.67	26.22	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00
605	0.200	8.62	26.36	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
606	0.100	8.58	26.51	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
607	0.000	8.53	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			25.00	0.08	0.05	0.00	0.00	0.00	0.00	0.12			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
595	1.200	19.88	0.00	10.40	95.61	5.71	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.77	0.00	0.	0.00
596	1.100	20.17	0.00	10.51	97.08	6.81	0.60	0.00	0.60	0.00	0.27	0.00	0.00	0.00	0.00	1.54	0.00	0.	0.00
597	1.000	20.45	0.00	10.51	97.08	7.53	0.60	0.00	0.60	0.00	0.27	0.00	0.00	0.00	0.00	2.31	0.00	0.	0.00
598	0.900	20.74	0.00	10.51	97.08	7.99	0.60	0.00	0.60	0.00	0.27	0.00	0.00	0.00	0.00	3.08	0.00	0.	0.00
599	0.800	21.02	0.00	10.51	97.08	8.27	0.60	0.00	0.60	0.00	0.27	0.00	0.00	0.00	0.00	3.85	0.00	0.	0.00
600	0.700	21.31	0.00	10.51	97.08	8.44	0.60	0.00	0.60	0.00	0.27	0.00	0.00	0.00	0.00	4.62	0.00	0.	0.00
601	0.600	21.59	0.00	10.51	97.08	8.54	0.60	0.00	0.60	0.00	0.27	0.00	0.00	0.00	0.00	5.38	0.00	0.	0.00
602	0.500	21.88	0.00	10.53	97.32	8.58	0.61	0.00	0.61	0.00	0.27	0.00	0.00	0.00	0.00	6.15	0.00	0.	0.00
603	0.400	22.16	0.00	10.53	97.32	8.59	0.61	0.00	0.61	0.00	0.27	0.00	0.00	0.00	0.00	6.92	0.00	0.	0.00
604	0.300	22.45	0.00	10.53	97.32	8.59	0.61	0.00	0.61	0.00	0.27	0.00	0.00	0.00	0.00	7.69	0.00	0.	0.00
605	0.200	22.73	0.00	10.53	97.32	8.56	0.61	0.00	0.61	0.00	0.27	0.00	0.00	0.00	0.00	8.46	0.00	0.	0.00
606	0.100	23.02	0.00	10.53	97.32	8.53	0.61	0.00	0.61	0.00	0.27	0.00	0.00	0.00	0.00	9.23	0.00	0.	0.00
607	0.000	23.30	0.00	10.53	97.32	8.50	0.61	0.00	0.61	0.00	0.27	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY
Ditch B Hwy 190 BBB

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

TRAVEL TIME = 0.27 DAYS

MAXIMUM EFFLUENT = 0.27 PERCENT

FLOW	=	0.00280	TO	0.00281	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.05600	TO	0.05615	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m

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BOD DECAY         =    0.08   TO    0.09      per day
NH3 DECAY         =    0.00   TO    0.00      per day
SOD               =    0.12   TO    0.15      g/m²/d
NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
REAERATION        =   24.94   TO   26.65      per day
BOD SETTLING      =    0.05   TO    0.05      per day
NBOD DECAY        =    0.03   TO    0.04      per day
NBOD SETTLING     =    0.05   TO    0.05      per day

TEMPERATURE       =   19.88   TO   23.30      deg C
DISSOLVED OXYGEN  =    5.71   TO    8.59      mg/L


FINAL REPORT    Cypress Bayou                                   BAYOU LACOMBE WATERSHED MODEL
REACH NO. 34    CB03 to Hwy 190 ditch CB                        Winter 4,5 DO curr criteria

 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

  650  HDWTR     0.02300   23.30     0.14    22.50   286.90   4.00   4.10   0.00   4.10   0.00   0.64   0.00   0.00   0.00  10.00     0.00    0.00
 EACH  INCR      0.06294   23.25     0.14    22.50   286.90   4.00   4.10   0.00                  0.64   0.00   0.00   0.00    0.00     0.00
  651  WSTLD     0.00219   23.06     0.26    23.50   516.30   2.00  11.50   0.00  11.50   0.00   8.60   0.00   0.00   0.00   0.00     0.00    0.00
  652  WSTLD     0.00657   30.60     0.37    57.90   719.70   5.00  11.50   0.00  11.50   0.00   8.60   0.00   0.00   0.00   0.00     0.00    0.00

 ************************************************** HYDRAULIC PARAMETER VALUES **************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
  NO.    DIST    DIST               EFF     VELO      TIME                                  AREA    AREA     PRISM    VELO               VELO
          km      km        m³/s                m/s      days       m       m        m³        m²      m²        m³     m/s      m²/s     m/s

  650    4.90    4.80    0.08594   0.0   0.06319      0.02    0.29    4.69    136.01    469.00    1.36     35.64   0.001     1.000   0.063
  651    4.80    4.70    0.15107   1.5   0.11107      0.01    0.29    4.69    136.01    469.00    1.36     71.29   0.001     1.000   0.111
  652    4.70    4.60    0.22059   4.0   0.16218      0.01    0.29    4.69    136.01    469.00    1.36    106.93   0.002     1.000   0.162

  TOT                                               0.04                    408.03   1407.00
  AVG                                     0.0968            0.29    4.69                       1.36
  CUM                                               0.04

 ********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************

 ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN    NH3   NH3  DENIT   PO4   ALG   MAC   COLI    NCM    NCM
 NO.     DIST  D.O.    RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
               mg/L    1/da   1/da  1/da   1/da   1/da  1/da   1/da     *     *     *    1/da  1/da   1/da     *    1/da     *    **    **    1/da   1/da   1/da

 650    4.800  8.52    2.92   0.08  0.05   0.00   0.00  0.00   0.00  1.85  1.85  1.85   0.15  0.05   0.00  0.00   0.00  0.00  0.58  0.00   0.00   0.00   0.00
 651    4.700  8.52    3.40   0.08  0.05   0.00   0.00  0.00   0.00  1.85  1.85  1.85   0.15  0.05   0.00  0.00   0.00  0.00  0.58  0.00   0.00   0.00   0.00
 652    4.600  8.52    3.77   0.08  0.05   0.00   0.00  0.00   0.00  1.85  1.85  1.85   0.15  0.05   0.00  0.00   0.00  0.00  0.58  0.00   0.00   0.00   0.00

 AVG 20 DEG C RATE     3.16   0.07  0.05   0.00   0.00  0.00   0.00  1.50               0.14  0.05   0.00  0.00   0.00  0.00                0.00   0.00   0.00

 *   g/m²/d            **   mg/L/day

 ************************************************ WATER QUALITY CONSTITUENT VALUES ************************************************

 ELEM  ENDING   TEMP  SALN chloride  conduct    DO   BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   TOTN   PHOS  CHL A   MACRO     COLI     NCM
 NO.     DIST  DEG C   PPT     mg/L    uS/cm  mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L    g/m³  #/100mL

 650    4.800  23.30  0.14    22.51   287.49  4.12   4.11   0.00   4.11   0.00   0.66   0.00   0.00   0.00   0.00  10.00    0.00       0.    0.00
 651    4.700  23.30  0.14    22.60   291.20  4.14   4.21   0.00   4.21   0.00   0.77   0.00   0.00   0.00   0.00  10.00    0.00       0.    0.00
 652    4.600  23.30  0.15    23.57   302.08  4.21   4.38   0.00   4.38   0.00   0.95   0.00   0.00   0.00   0.00  10.00    0.00       0.    0.00


FINAL REPORT    Cypress Bayou                                   BAYOU LACOMBE WATERSHED MODEL
REACH NO. 36    Hwy 190 Ditch CB to CB02                        Winter 4,5 DO curr criteria

 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

  669  UPR RCH   0.22059   23.30     0.15    23.57   302.08   4.21   4.38   0.00   4.38   0.00   0.95   0.00   0.00   0.00  10.00     0.00    0.00
  669  TRIB      0.00291   23.30     0.15    23.87   303.69   8.41   1.38   0.00   1.38   0.00   0.57   0.00   0.00   0.00  10.00     0.00    0.00
  674  WSTLD     0.00000   30.60     0.37    57.90   719.70   2.00  23.00   0.00  23.00   0.00   8.60   0.00   0.00   0.00   0.00     0.00    0.00
  677  WSTLD     0.00027   30.60     0.37    57.90   719.70   2.00  23.00   0.00  23.00   0.00   8.60   0.00   0.00   0.00   0.00     0.00    0.00

 ************************************************** HYDRAULIC PARAMETER VALUES **************************************************
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ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
669	4.60	4.50	0.22350	4.0	0.16433	0.01	0.29	4.69	136.01	469.00	1.36	160.40	0.003	3.500	0.164
670	4.50	4.40	0.22350	4.0	0.16433	0.01	0.29	4.69	136.01	469.00	1.36	213.86	0.003	3.500	0.164
671	4.40	4.30	0.22350	4.0	0.16433	0.01	0.29	4.69	136.01	469.00	1.36	267.33	0.004	3.500	0.164
672	4.30	4.20	0.22350	4.0	0.16433	0.01	0.29	4.69	136.01	469.00	1.36	320.80	0.005	3.500	0.164
673	4.20	4.10	0.22350	4.0	0.16433	0.01	0.29	4.69	136.01	469.00	1.36	374.26	0.006	3.500	0.164
674	4.10	4.00	0.22350	4.0	0.16433	0.01	0.29	4.69	136.01	469.00	1.36	427.73	0.007	3.500	0.164
675	4.00	3.90	0.22350	4.0	0.16433	0.01	0.29	4.69	136.01	469.00	1.36	481.19	0.008	3.500	0.164
676	3.90	3.80	0.22350	4.0	0.16433	0.01	0.29	4.69	136.01	469.00	1.36	534.66	0.009	3.500	0.164
677	3.80	3.70	0.22378	4.1	0.16453	0.01	0.29	4.69	136.01	469.00	1.36	588.13	0.010	3.500	0.165
678	3.70	3.60	0.22378	4.1	0.16453	0.01	0.29	4.69	136.01	469.00	1.36	641.59	0.010	3.500	0.165
679	3.60	3.50	0.22378	4.1	0.16453	0.01	0.29	4.69	136.01	469.00	1.36	695.06	0.011	3.500	0.165
680	3.50	3.40	0.22378	4.1	0.16453	0.01	0.29	4.69	136.01	469.00	1.36	748.52	0.012	3.500	0.165
681	3.40	3.30	0.22378	4.1	0.16453	0.01	0.29	4.69	136.01	469.00	1.36	801.99	0.013	3.500	0.165
682	3.30	3.20	0.22378	4.1	0.16453	0.01	0.29	4.69	136.01	469.00	1.36	855.46	0.014	3.500	0.165
683	3.20	3.10	0.22378	4.1	0.16453	0.01	0.29	4.69	136.01	469.00	1.36	908.92	0.015	3.500	0.165
684	3.10	3.00	0.22378	4.1	0.16453	0.01	0.29	4.69	136.01	469.00	1.36	962.39	0.016	3.500	0.165
685	3.00	2.90	0.22378	4.1	0.16453	0.01	0.29	4.69	136.01	469.00	1.36	1015.85	0.017	3.500	0.165
TOT						0.12			2312.17	7973.00					
AVG					0.1644		0.29	4.69			1.36				
CUM						0.16									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
669	4.500	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
670	4.400	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
671	4.300	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
672	4.200	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
673	4.100	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
674	4.000	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
675	3.900	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
676	3.800	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
677	3.700	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
678	3.600	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
679	3.500	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
680	3.400	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
681	3.300	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.15	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
682	3.200	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
683	3.100	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
684	3.000	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
685	2.900	8.52	3.79	0.08	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.16	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			3.55	0.07	0.05	0.00	0.00	0.00	0.00	1.50			0.14	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
669	4.500	23.30	0.15	23.57	302.09	4.33	4.40	0.00	4.40	0.00	0.95	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
670	4.400	23.30	0.15	23.57	302.09	4.39	4.44	0.00	4.44	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
671	4.300	23.30	0.15	23.57	302.09	4.46	4.49	0.00	4.49	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
672	4.200	23.30	0.15	23.57	302.09	4.52	4.53	0.00	4.53	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
673	4.100	23.30	0.15	23.57	302.10	4.58	4.58	0.00	4.58	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
674	4.000	23.30	0.15	23.57	302.10	4.64	4.62	0.00	4.62	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
675	3.900	23.30	0.15	23.57	302.12	4.70	4.67	0.00	4.67	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
676	3.800	23.30	0.15	23.58	302.19	4.75	4.72	0.00	4.72	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
677	3.700	23.30	0.15	23.61	302.61	4.80	4.78	0.00	4.78	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
678	3.600	23.30	0.15	23.61	302.61	4.86	4.83	0.00	4.83	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
679	3.500	23.30	0.15	23.61	302.61	4.91	4.87	0.00	4.87	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
680	3.400	23.30	0.15	23.61	302.61	4.96	4.92	0.00	4.92	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
681	3.300	23.30	0.15	23.61	302.61	5.01	4.96	0.00	4.96	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
682	3.200	23.30	0.15	23.61	302.62	5.05	5.01	0.00	5.01	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
683	3.100	23.30	0.15	23.63	302.64	5.10	5.05	0.00	5.05	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
684	3.000	23.30	0.15	23.70	302.77	5.17	5.10	0.00	5.10	0.00	0.93	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
685	2.900	23.30	0.15	24.12	303.52	5.36	5.18	0.00	5.18	0.00	0.89	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
686	UPR RCH	0.22378	23.30	0.15	24.12	303.52	5.36	5.18	0.00	5.18	0.00	0.89	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
686	2.90	2.80	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	1228.96	0.001	5.500	0.011
687	2.80	2.70	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	1442.06	0.002	5.500	0.011
688	2.70	2.60	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	1655.17	0.002	5.500	0.011
689	2.60	2.50	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	1868.27	0.002	5.500	0.011
690	2.50	2.40	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	2081.37	0.002	5.500	0.011
691	2.40	2.30	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	2294.48	0.003	5.500	0.011
692	2.30	2.20	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	2507.58	0.003	5.500	0.011
693	2.20	2.10	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	2720.69	0.003	5.500	0.011
694	2.10	2.00	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	2933.79	0.003	5.500	0.011
695	2.00	1.90	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	3146.89	0.004	5.500	0.011
696	1.90	1.80	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	3360.00	0.004	5.500	0.011
697	1.80	1.70	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	3573.10	0.004	5.500	0.011
698	1.70	1.60	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	3786.21	0.004	5.500	0.011
699	1.60	1.50	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	3999.31	0.005	5.500	0.011
700	1.50	1.40	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	4212.41	0.005	5.500	0.011
701	1.40	1.30	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	4425.52	0.005	5.500	0.011
702	1.30	1.20	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	4638.62	0.005	5.500	0.011
703	1.20	1.10	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	4851.73	0.006	5.500	0.011
704	1.10	1.00	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	5064.83	0.006	5.500	0.011
705	1.00	0.90	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	5277.93	0.006	5.500	0.011
706	0.90	0.80	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	5491.04	0.006	5.500	0.011
707	0.80	0.70	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	5704.14	0.007	5.500	0.011
708	0.70	0.60	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	5917.25	0.007	5.500	0.011
709	0.60	0.50	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	6130.35	0.007	5.500	0.011
710	0.50	0.40	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	6343.45	0.007	5.500	0.011
711	0.40	0.30	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	6556.56	0.007	5.500	0.012
712	0.30	0.20	0.22378	4.1	0.01148	0.10	1.39	14.02	1948.78	1402.00	19.49	6769.66	0.008	5.500	0.012
TOT						2.72			52617.07	37854.00					
AVG					0.0115		1.39	14.02			19.49				
CUM						2.88									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
686	2.800	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
687	2.700	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
688	2.600	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
689	2.500	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
690	2.400	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
691	2.300	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
692	2.200	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
693	2.100	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
694	2.000	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
695	1.900	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
696	1.800	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
697	1.700	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
698	1.600	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
699	1.500	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
700	1.400	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
701	1.300	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
702	1.200	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
703	1.100	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
704	1.000	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
705	0.900	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
706	0.800	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
707	0.700	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
708	0.600	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
709	0.500	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
710	0.400	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
711	0.300	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
712	0.200	8.52	0.54	0.06	0.05	0.00	0.00	0.00	0.00	1.85	1.85	1.85	0.06	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.50	0.05	0.05	0.00	0.00	0.00	0.00	1.50			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
686	2.800	23.30	0.15	24.33	303.89	5.44	5.20	0.00	5.20	0.00	0.88	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
687	2.700	23.30	0.15	24.48	304.15	5.48	5.21	0.00	5.21	0.00	0.87	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
688	2.600	23.30	0.15	24.66	304.47	5.52	5.22	0.00	5.22	0.00	0.86	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
689	2.500	23.30	0.15	24.88	304.86	5.56	5.23	0.00	5.23	0.00	0.85	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
690	2.400	23.30	0.15	25.14	305.33	5.60	5.25	0.00	5.25	0.00	0.84	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
691	2.300	23.30	0.15	25.46	305.90	5.64	5.26	0.00	5.26	0.00	0.83	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
692	2.200	23.30	0.15	25.85	306.59	5.67	5.27	0.00	5.27	0.00	0.83	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
693	2.100	23.30	0.15	26.32	307.42	5.71	5.28	0.00	5.28	0.00	0.82	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
694	2.000	23.30	0.15	26.88	308.42	5.74	5.30	0.00	5.30	0.00	0.81	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
695	1.900	23.30	0.15	27.56	309.64	5.77	5.31	0.00	5.31	0.00	0.80	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
696	1.800	23.30	0.15	28.39	311.10	5.80	5.32	0.00	5.32	0.00	0.80	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
697	1.700	23.30	0.15	29.39	312.87	5.83	5.34	0.00	5.34	0.00	0.79	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
698	1.600	23.30	0.16	30.59	315.02	5.86	5.35	0.00	5.35	0.00	0.78	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
699	1.500	23.30	0.16	32.05	317.61	5.89	5.37	0.00	5.37	0.00	0.78	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
700	1.400	23.30	0.16	33.81	320.74	5.92	5.39	0.00	5.39	0.00	0.77	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
701	1.300	23.30	0.16	35.94	324.52	5.95	5.41	0.00	5.41	0.00	0.77	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
702	1.200	23.30	0.16	38.51	329.10	5.97	5.43	0.00	5.43	0.00	0.77	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
703	1.100	23.30	0.17	41.62	334.63	6.01	5.46	0.00	5.46	0.00	0.77	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
704	1.000	23.30	0.17	45.39	341.31	6.04	5.49	0.00	5.49	0.00	0.77	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
705	0.900	23.30	0.17	49.93	349.39	6.07	5.52	0.00	5.52	0.00	0.78	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
706	0.800	23.30	0.18	55.43	359.16	6.11	5.56	0.00	5.56	0.00	0.78	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
707	0.700	23.30	0.19	62.07	370.96	6.15	5.61	0.00	5.61	0.00	0.79	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
708	0.600	23.30	0.19	70.10	385.23	6.20	5.66	0.00	5.66	0.00	0.81	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
709	0.500	23.30	0.20	79.80	402.48	6.26	5.73	0.00	5.73	0.00	0.83	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
710	0.400	23.30	0.22	91.54	423.33	6.32	5.81	0.00	5.81	0.00	0.85	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
711	0.300	23.30	0.23	105.72	448.54	6.40	5.90	0.00	5.90	0.00	0.89	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
712	0.200	23.30	0.25	122.86	479.00	6.50	6.01	0.00	6.01	0.00	0.93	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

FINAL REPORT Cypress Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 38 CB01to confluence w/BayouLacombe Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
713	UPR RCH	0.22378	23.30	0.25	122.86	479.00	6.50	6.01	0.00	6.01	0.00	0.93	0.00	0.00	0.00	10.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
713	0.20	0.10	0.22378	4.1	0.00232	0.50	2.73	35.36	9653.28	3536.00	96.53	7307.13	0.002	7.500	0.002
714	0.10	0.00	0.22378	4.1	0.00232	0.50	2.73	35.36	9653.28	3536.00	96.53	7844.61	0.002	7.500	0.002
TOT						1.00			19306.56	7072.00					
AVG					0.0023		2.73	35.36			96.53				
CUM						3.88									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
713	0.100	8.52	0.27	0.06	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
714	0.000	8.52	0.27	0.06	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.26	0.05	0.05	0.00	0.00	0.00	0.00	0.00			0.08	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
713	0.100	23.30	0.25	128.20	488.50	6.53	6.04	0.00	6.04	0.00	0.94	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00
714	0.000	23.30	0.25	131.44	494.25	6.54	6.06	0.00	6.06	0.00	0.95	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY
Cypress Bayou

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

TRAVEL TIME	=	3.88	DAYS		
MAXIMUM EFFLUENT	=	4.09	PERCENT		
FLOW	=	0.08594	TO	0.22378	m³/s
DISPERSION	=	1.0000	TO	7.5000	m²/s
VELOCITY	=	0.00232	TO	0.16453	m/s
DEPTH	=	0.29	TO	2.73	m
WIDTH	=	4.69	TO	35.36	m
BOD DECAY	=	0.06	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.00	TO	1.85	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	0.27	TO	3.79	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.06	TO	0.16	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	23.30	TO	23.30	deg C
DISSOLVED OXYGEN	=	4.12	TO	6.54	mg/L

FINAL REPORT Ditch C Hwy 190 CB
REACH NO. 35 Hwy 190 Ditch CB

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
653	HDWTR	0.00280	23.30	0.14	22.50	286.90	4.00	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
654	WSTLD	0.00009	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00
655	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00
660	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00
661	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00
663	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
653	1.60	1.50	0.00280	0.0	0.05600	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
654	1.50	1.40	0.00289	3.2	0.05786	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
655	1.40	1.30	0.00290	3.6	0.05808	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
656	1.30	1.20	0.00290	3.6	0.05808	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
657	1.20	1.10	0.00290	3.6	0.05808	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
658	1.10	1.00	0.00290	3.6	0.05808	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
659	1.00	0.90	0.00290	3.6	0.05808	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
660	0.90	0.80	0.00291	3.6	0.05810	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
661	0.80	0.70	0.00291	3.7	0.05815	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
662	0.70	0.60	0.00291	3.7	0.05815	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
663	0.60	0.50	0.00291	3.9	0.05826	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
664	0.50	0.40	0.00291	3.9	0.05826	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
665	0.40	0.30	0.00291	3.9	0.05826	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
666	0.30	0.20	0.00291	3.9	0.05826	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
667	0.20	0.10	0.00291	3.9	0.05826	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
668	0.10	0.00	0.00291	3.9	0.05826	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.058
TOT						0.32			80.00	1600.00					
AVG					0.0580		0.05	1.00			0.05				
CUM						0.32									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
653	1.500	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
654	1.400	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
655	1.300	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
656	1.200	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
657	1.100	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00

658	1.000	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
659	0.900	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
660	0.800	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
661	0.700	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
662	0.600	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
663	0.500	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
664	0.400	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
665	0.300	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
666	0.200	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
667	0.100	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
668	0.000	8.52	26.65	0.09	0.05	0.00	0.00	0.00	0.00	0.15	0.15	0.15	0.04	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			25.00	0.08	0.05	0.00	0.00	0.00	0.00	0.12			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
653	1.500	23.30	0.14	22.50	286.90	5.56	0.55	0.00	0.55	0.00	0.25	0.00	0.00	0.00	0.00	0.62	0.00	0.	0.00
654	1.400	23.30	0.15	23.64	300.83	6.48	1.27	0.00	1.27	0.00	0.52	0.00	0.00	0.00	0.00	1.25	0.00	0.	0.00
655	1.300	23.30	0.15	23.77	302.41	7.13	1.35	0.00	1.35	0.00	0.55	0.00	0.00	0.00	0.00	1.88	0.00	0.	0.00
656	1.200	23.30	0.15	23.77	302.41	7.58	1.35	0.00	1.35	0.00	0.55	0.00	0.00	0.00	0.00	2.50	0.00	0.	0.00
657	1.100	23.30	0.15	23.77	302.41	7.86	1.35	0.00	1.35	0.00	0.55	0.00	0.00	0.00	0.00	3.12	0.00	0.	0.00
658	1.000	23.30	0.15	23.77	302.41	8.05	1.34	0.00	1.34	0.00	0.55	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.00
659	0.900	23.30	0.15	23.77	302.41	8.18	1.34	0.00	1.34	0.00	0.55	0.00	0.00	0.00	0.00	4.38	0.00	0.	0.00
660	0.800	23.30	0.15	23.78	302.57	8.26	1.35	0.00	1.35	0.00	0.55	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00
661	0.700	23.30	0.15	23.81	302.90	8.31	1.36	0.00	1.36	0.00	0.55	0.00	0.00	0.00	0.00	5.62	0.00	0.	0.00
662	0.600	23.30	0.15	23.81	302.90	8.35	1.36	0.00	1.36	0.00	0.55	0.00	0.00	0.00	0.00	6.25	0.00	0.	0.00
663	0.500	23.30	0.15	23.87	303.69	8.36	1.40	0.00	1.40	0.00	0.57	0.00	0.00	0.00	0.00	6.88	0.00	0.	0.00
664	0.400	23.30	0.15	23.87	303.69	8.38	1.39	0.00	1.39	0.00	0.57	0.00	0.00	0.00	0.00	7.50	0.00	0.	0.00
665	0.300	23.30	0.15	23.87	303.69	8.39	1.39	0.00	1.39	0.00	0.57	0.00	0.00	0.00	0.00	8.12	0.00	0.	0.00
666	0.200	23.30	0.15	23.87	303.69	8.40	1.39	0.00	1.39	0.00	0.57	0.00	0.00	0.00	0.00	8.75	0.00	0.	0.00
667	0.100	23.30	0.15	23.87	303.69	8.41	1.39	0.00	1.39	0.00	0.57	0.00	0.00	0.00	0.00	9.38	0.00	0.	0.00
668	0.000	23.30	0.15	23.87	303.69	8.41	1.38	0.00	1.38	0.00	0.57	0.00	0.00	0.00	0.00	10.00	0.00	0.	0.00

STREAM SUMMARY
Ditch C Hwy 190 CB

BAYOU LACOMBE WATERSHED MODEL
Winter 4,5 DO curr criteria

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TRAVEL TIME       =          0.32 DAYS

MAXIMUM EFFLUENT  =          3.88 PERCENT

FLOW              =   0.00280 TO    0.00291   m³/s
DISPERSION        =   0.0000  TO    0.0000    m²/s
VELOCITY          =   0.05600 TO    0.05826   m/s
DEPTH             =   0.05    TO    0.05      m
WIDTH             =   1.00    TO    1.00      m

BOD DECAY         =    0.09   TO    0.09      per day
NH3 DECAY         =    0.00   TO    0.00      per day
SOD               =    0.15   TO    0.15      g/m²/d
NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
REAERATION        =   26.65   TO   26.65      per day
BOD SETTLING      =    0.05   TO    0.05      per day
NBOD DECAY        =    0.03   TO    0.04      per day
NBOD SETTLING     =    0.05   TO    0.05      per day

TEMPERATURE       =   23.30   TO   23.30      deg C
DISSOLVED OXYGEN  =    5.56   TO    8.41      mg/L


    .....EXECUTION COMPLETED
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Appendix D4 – Winter Justifications

DATA TYPE 3 - PROGRAM CONSTANTS			
CONSTANT NAME	**VALUE**	**UNITS**	**DATA SOURCE**
DISPERSION EQUATION	1		Dispersion values were entered manually.
OCEAN EXCHANGE RATIO	1		Accounts for dispersive/tidal exchange between the lower boundary and the stream
TIDE HEIGHT	0.152	meters	Typical for Lake Pontchartrain stream. Verified by data from New Canal Station.
TIDAL PERIOD	25	hours	LAQUAL Default
PERIOD OF TIDAL RISE	12.5	hours	LAQUAL Default
KL MINIMUM	0.7	m/day	Louisiana Standard Practice. The minimum KL of 2.3 ft/day converted to 0.70 m/day.
INHIBITION CONTROL VALUE	3		The water column dissolved oxygen demand is assumed to come primarily from facultative bacteria under anoxic conditions and SOD is not influenced by modeled dissolved oxygen levels in the upper water column.
K2 MAXIMUM	25	1/day at 20 deg C	Louisiana Standard Practice
HYDRAULIC CALCULATION METHOD	2		The low slopes in this waterbody cause a substantial amount of water to be present during critical flow conditions. This method allows the model to predict a more accurate depth and width during low flow conditions.
ALGAE OXYGEN PROD	0.05	mg O/µg chl-a/day	LAQUAL Default. Accounts for the net oxygen production per unit of chlorophyll-a
SETTLING RATE UNITS	2		Sets units to 1/day.

DATA TYPE 8 - REACH IDENTIFICATION DATA						
Reach	ID	Name	Upstream River Kilometer	Downstream River Kilometer	Element Length, Kilometer	Data Source
1	BL	BL01 TO Hwy 36 Ditch BL	31.0	30.9	0.01	SURVEY GPS DATA (WHERE APPLICABLE) AND ARCGIS--ALL REACHES
2	D1	Hwy 36 Ditch BL	4.2	0.0	0.1	
3	BL	Hwy 36 Ditch BL to BL02	30.9	25.2	0.1	
4	BL	BL02 to BL03	25.2	20.3	0.1	
5	BL	BL03 to SNG Ditch	20.3	19.4	0.1	
6	D2	SNG Ditch	2.1	0.0	0.1	
7	BL	SNG Ditch to Hwy 434/I-12 Ditch BL	19.4	19.1	0.1	
8	D3	Hwy 434/I-12 Ditch BL	3.0	0.0	0.1	
9	BL	Hwy 434/I-12 Ditch BL to BL04	19.1	18.9	0.1	
10	BL	BL04 to Keller Barn Ditch	18.9	17.3	0.1	
11	D4	Keller Barn Ditch	0.9	0.0	0.1	
12	BL	Keller Barn Ditch To Beau Village Ditch	17.3	14.6	0.1	
13	D5	Beau Village Ditch	3	0	0.1	
14	BL	Beau Village Ditch to BL05	14.6	13.2	0.1	
15	BL	BL05 to Hwy 190 Ditch BL	13.2	11.1	0.1	
16	D6	Hwy 190 Ditch BL	2.2	0	0.1	
17	BL	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	11.1	11	0.01	
18	D7	Hwy 434/190 Ditch BL	2.2	0	0.1	
19	BL	Hwy 434/190 Ditch BL to BL06	11	10.9	0.01	
20	BL	BL06 to confluence with BBB	10.9	8.8	0.1	
21	BB	BB03 to Hwy 434/I-12 ditch BBB	5.2	5.1	0.01	
22	D8	Hwy 434/I-12 Ditch BBB	6.5	0	0.1	
23	BB	Hwy 434/I-12 Ditch BBB to Folger Ditch	5.1	4.9	0.01	
24	D9	Folger Ditch	0.4	0	0.1	
25	BB	Folger Ditch to BB02	4.9	2	0.1	
26	BB	BB02 to Berry Todd Rd Ditch	2	1.9	0.01	
27	DA	Berry Todd Rd Ditch	2	0	0.1	
28	BB	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	1.9	0.8	0.1	
29	DB	Hwy 190 Ditch BBB	1.3	0	0.1	
30	BB	Hwy 190 Ditch BBB to BB01	0.8	0.3	0.1	
31	BB	BB01 to Confluence With Bayou Lacombe	0.3	0	0.1	
32	BL	Big Branch Bayou to BL07	8.8	8.7	0.01	
33	BL	BL07 to confluence w/ Cypress Bayou	8.7	6.3	0.1	
34	CB	CB03 to Hwy 190 ditch CB	4.9	4.6	0.1	
35	DC	Hwy 190 Ditch CB	1.6	0	0.1	
36	CB	Hwy 190 Ditch CB to CB02	4.6	2.9	0.1	
37	CB	CB02 to CB01	2.9	0.2	0.1	
38	CB	CB01 to confluence w/ Bayou Lacombe	0.2	0	0.1	
39	BL	Cypress Bayou to BL08	6.3	6.1	0.1	
40	BL	BL08 to BL09	6.1	0.3	0.1	
41	BL	BL09 to Lake Pontchartrain	0.3	0	0.1	

		DATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENTS				ATA TYPE 9 - ADVECTIVE HYDRAULIC COEFFICIENT				YPE 9 - ADVECTIVE HYDRAULIC COEFF	
Reach	Name	Width Coeff. "a"	Width Exp. "b"	Width Const.	Data Source	Depth Coeff. "d"	Depth Exp. "e"	Depth Const. "f"	Data Source	Manning's "n"	Data Source
1	BL01 TO Hwy 36 Ditch BL	0	0	5.79	BL01	0	0	0.4	BL01	0.02	TYPICAL FOR LA STREAMS-ALL REACHES
2	Hwy 36 Ditch BL	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
3	Hwy 36 Ditch BL to BL02	0	0	5.79	BL01	0	0	0.4	BL01	0.02	
4	BL02 to BL03	0	0	6.1	BL02	0	0	0.18	BL02	0.02	
5	BL03 to SNG Ditch	0	0	7.16	BL03	0	0	0.17	BL03	0.02	
6	SNG Ditch	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0	0	7.16	BL03	0	0	0.17	BL03	0.02	
8	Hwy 434/I-12 Ditch BL	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
9	Hwy 434/I-12 Ditch BL to BL04	0	0	7.16	BL03	0	0	0.17	BL03	0.02	
10	BL04 to Keller Barn Ditch	0	0	9.3	BL04	0	0	0.42	BL04	0.02	
11	Keller Barn Ditch	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
12	Keller Barn Ditch To Beau Village Ditch	0	0	9.3	BL04	0	0	0.42	BL04	0.02	
13	Beau Village Ditch	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
14	Beau Village Ditch to BL05	0	0	9.3	BL04	0	0	0.42	BL04	0.02	
15	BL05 to Hwy 190 Ditch BL	0	0	25.3	BL05	0	0	3.6	BL05	0.02	
16	Hwy 190 Ditch BL	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0	0	25.3	BL05	0	0	3.6	BL05	0.02	
18	Hwy 434/190 Ditch BL	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
19	Hwy 434/190 Ditch BL to BL06	0	0	25.3	BL05	0	0	3.6	BL05	0.02	
20	BL06 to confluence with BBB	0	0	44.2	BL06	0	0	3.15	BL06	0.02	
21	BB03 to Hwy 434/I-12 ditch BBB	0	0	3.66	BB03	0	0	0.39	BB03	0.02	
22	Hwy 434/I-12 Ditch BBB	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0	0	3.66	BB03	0	0	0.39	BB03	0.02	
24	Folger Ditch	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
25	Folger Ditch to BB02	0	0	3.66	BB03	0	0	0.39	BB03	0.02	
26	BB02 to Berry Todd Rd Ditch	0	0	15.24	BB02	0	0	1.12	BB02	0.02	
27	Berry Todd Rd Ditch	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	0	0	15.24	BB02	0	0	1.12	BB02	0.02	
29	Hwy 190 Ditch BBB	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
30	Hwy 190 Ditch BBB to BB01	0	0	15.24	BB02	0	0	1.12	BB02	0.02	
31	BB01 to Confluence With Bayou Lacombe	0	0	39.62	BB01	0	0	2.13	BB01	0.02	
32	Big Branch Bayou to BL07	0	0	82.3	BL07	0	0	2.56	BL07	0.02	
33	BL07 to confluence w/ Cypress Bayou	0	0	82.3	BL07	0	0	2.56	BL07	0.02	
34	CB03 to Hwy 190 ditch CB	0	0	4.69	CB03	0	0	0.29	CB03	0.02	
35	Hwy 190 Ditch CB	0	0	1	Generic ditch	0	0	0.05	Generic ditch	0.02	
36	Hwy 190 Ditch CB to CB02	0	0	4.69	CB03	0	0	0.29	CB03	0.02	
37	CB02 to CB01	0	0	14.02	CB02	0	0	1.39	CB02	0.02	
38	CB01 to confluence w/ Bayou Lacombe	0	0	35.36	CB01	0	0	2.73	CB01	0.02	
39	Cypress Bayou to BL08	0	0	74.68	BL08	0	0	3.03	BL08	0.02	
40	BL08 to BL09	0	0	74.68	BL08	0	0	3.03	BL08	0.02	
41	BL09 to Lake Pontchartrain	0	0	99.36	BL09	0	0	1.8	BL09	0.02	

		DATA TYPE 10 - DISPERSIVE HYDRAULIC COEFFICIENTS			
Reach	**Name**	**Tidal Range**	**Data Source**	**Dispersion Coeff. "a"**	**Data Source**
1	BL01 TO Hwy 36 Ditch BL	0	For all reaches, flow measurements and water quality were analyzed to determine the extent of the tidal influence.	0.5	For all reaches, dispersion was entered manually and set at values similar to Tchefuncte River and Bayous Bonfouca and Liberty. Dispersion was not included for the ditches.
2	Hwy 36 Ditch BL	0		0.0	
3	Hwy 36 Ditch BL to BL02	0		0.5	
4	BL02 to BL03	0		0.5	
5	BL03 to SNG Ditch	0		0.5	
6	SNG Ditch	0		0.0	
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0		0.5	
8	Hwy 434/I-12 Ditch BL	0		0.0	
9	Hwy 434/I-12 Ditch BL to BL04	0		0.5	
10	BL04 to Keller Barn Ditch	0.25		0.5	
11	Keller Barn Ditch	0		0.0	
12	Keller Barn Ditch To Beau Village Ditch	0.25		0.5	
13	Beau Village Ditch	0		0.0	
14	Beau Village Ditch to BL05	0.5		0.5	
15	BL05 to Hwy 190 Ditch BL	0.75		0.5	
16	Hwy 190 Ditch BL	0		0.0	
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.75		0.5	
18	Hwy 434/190 Ditch BL	0		0.0	
19	Hwy 434/190 Ditch BL to BL06	0.75		0.5	
20	BL06 to confluence with BBB	1		2.0	
21	BB03 to Hwy 434/I-12 ditch BBB	0.25		0.5	
22	Hwy 434/I-12 Ditch BBB	0		0.0	
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0.5		1.0	
24	Folger Ditch	0		0.0	
25	Folger Ditch to BB02	0.75		2.0	
26	BB02 to Berry Todd Rd Ditch	1		2.5	
27	Berry Todd Rd Ditch	0		0.0	
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	1		3.5	
29	Hwy 190 Ditch BBB	0		0.0	
30	Hwy 190 Ditch BBB to BB01	1		5.5	
31	BB01 to Confluence With Bayou Lacombe	1		7.5	
32	Big Branch Bayou to BL07	1		3.0	
33	BL07 to confluence w/ Cypress Bayou	1		4.0	
34	CB03 to Hwy 190 ditch CB	0.5		1.0	
35	Hwy 190 Ditch CB	0		0.0	
36	Hwy 190 Ditch CB to CB02	0.75		3.5	
37	CB02 to CB01	1		5.5	
38	CB01 to confluence w/ Bayou Lacombe	1		7.5	
39	Cypress Bayou to BL08	1		5.0	
40	BL08 to BL09	1		6.0	
41	BL09 to Lake Pontchartrain	1		7.5	

DATA TYPE 11 - INITIAL CONDITIONS								
Reach	ID	Name	Temp, deg C	Sal, ppt	DO, mg/l	Data Source	Chlorophyll a	Data Source
1	BL	BL01 TO Hwy 36 Ditch BL	19.60	0.01	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	BL01
2	D1	Hwy 36 Ditch BL	19.60	0.01	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
3	BL	Hwy 36 Ditch BL to BL02	19.60	0.01	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	BL01
4	BL	BL02 to BL03	19.60	0.00	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	BL02
5	BL	BL03 to SNG Ditch	19.60	0.00	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0	BL03
6	D2	SNG Ditch	19.60	0.0	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
7	BL	SNG Ditch to Hwy 434/I-12 Ditch BL	19.60	0.00	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0	BL03
8	D3	Hwy 434/I-12 Ditch BL	19.60	0.0	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
9	BL	Hwy 434/I-12 Ditch BL to BL04	19.60	0.00	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0	BL03
10	BL	BL04 to Keller Barn Ditch	19.60	0.02	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0	BL04

DATA TYPE 11 - INITIAL CONDITIONS								
Reach	ID	Name	Temp, deg C	Sal, ppt	DO, mg/l	Data Source	Chlorophyll a	Data Source
11	D4	Keller Barn Ditch	19.60	0.02	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
12	BL	Keller Barn Ditch To Beau Village Ditch	19.60	0.02	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0	BL04
13	D5	Beau Village Ditch	19.60	0.02	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
14	BL	Beau Village Ditch to BL05	19.60	0.02	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	BL04
15	BL	BL05 to Hwy 190 Ditch BL	19.60	0.36	5.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	10.0	BL05. Reduced to 10-LA standard practice
16	D6	Hwy 190 Ditch BL	19.60	0.36	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
17	BL	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	19.60	0.36	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	10.0	BL05. Reduced to 10-LA standard practice
18	D7	Hwy 434/190 Ditch BL	19.60	0.36	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
19	BL	Hwy 434/190 Ditch BL to BL06	23.30	0.36	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL05. Reduced to 10-LA standard practice
20	BL	BL06 to confluence with BBB	23.30	4.78	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL06. Reduced to 10-LA standard practice

DATA TYPE 11 - INITIAL CONDITIONS								
Reach	ID	Name	Temp, deg C	Sal, ppt	DO, mg/l	Data Source	Chlorophyll a	Data Source
21	BB	BB03 to Hwy 434/I-12 ditch BBB	19.60	0	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	2.6	BB03 lab data
22	D8	Hwy 434/I-12 Ditch BBB	19.60	0.0	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
23	BB	Hwy 434/I-12 Ditch BBB to Folger Ditch	19.60	0	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	2.6	BB03 lab data
24	D9	Folger Ditch	19.60	0.0	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
25	BB	Folger Ditch to BB02	19.60	0	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	2.6	BB03 lab data
26	BB	BB02 to Berry Todd Rd Ditch	19.60	0.35	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	10.0	BB02 lab data. Reduced to 10-LA standard practice
27	DA	Berry Todd Rd Ditch	19.60	0.35	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
28	BB	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	19.60	0.35	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	10.0	BB02 lab data. Reduced to 10-LA standard practice
29	DB	Hwy 190 Ditch BBB	19.60	0.35	4.00	Temp=90th percentile temperature from water quality network site 0300. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
30	BB	Hwy 190 Ditch BBB to BB01	23.30	0.35	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BB02 lab data. Reduced to 10-LA standard practice

DATA TYPE 11 - INITIAL CONDITIONS								
Reach	ID	Name	Temp, deg C	Sal, ppt	DO, mg/l	Data Source	Chlorophyll a	Data Source
31	BB	BB01 to Confluence With Bayou Lacombe	23.30	4.19	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BB01 lab data. Reduced to 10-LA standard practice
32	BL	Big Branch Bayou to BL07	23.30	4.08	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL07 lab data. Reduced to 10-LA standard practice
33	BL	BL07 to confluence w/ Cypress Bayou	23.30	4.08	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL07 lab data. Reduced to 10-LA standard practice
34	CB	CB03 to Hwy 190 ditch CB	23.30	0.14	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	CB03 lab data. Reduced to 10-LA standard practice
35	DC	Hwy 190 Ditch CB	23.30	0.14	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	0.0	No data available so BPJ.
36	CB	Hwy 190 Ditch CB to CB02	23.30	0.14	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	CB03 lab data. Reduced to 10-LA standard practice
37	CB	CB02 to CB01	23.30	3.82	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	Average of CB03 and CB01. Reduced to 10-LA standard practice
38	CB	CB01 to confluence w/ Bayou Lacombe	23.30	5.34	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	CB01 lab data. Reduced to 10-LA standard practice
39	BL	Cypress Bayou to BL08	23.30	5.26	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL08 lab data. Reduced to 10-LA standard practice
40	BL	BL08 to BL09	23.30	5.26	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL08 lab data. Reduced to 10-LA standard practice
41	BL	BL09 to Lake Pontchartrain	23.30	7.05	4.00	Temp=90th percentile temperature from water quality network site 1047. Salinity=same as calibration. DO=criterion	10.0	BL09 lab data. Reduced to 10-LA standard practice

			DATA TYPE 12 - REAERATION, SEDIMENT				DATA TYPE 12 -		DATA TYPE 12 -	
REACH	ID	NAME	K_2 OPT	Data Source	BKGRND SOD, $gmO_2/m^2/day$ at 20 deg C	Data Source	Aerobic BOD1 Decay Rate (1/day)	Data Source	BOD1 SETT RATE (1/day)	Data Source
1	BL	BL01 TO Hwy 36 Ditch BL	11	Texas Equation	0.000	For all reaches: reduction required to meet criteria	0.034	BL01 lab data	0.05	Calibration--For all reaches except generic ditches
2	D1	Hwy 36 Ditch BL	15	Louisiana Equation	0.625		0.08	Generic Ditch	0.05	Generic Ditch
3	BL	Hwy 36 Ditch BL to BL02	11	Texas Equation	0.313		0.034	BL01 lab data	0.05	
4	BL	BL02 to BL03	11	Texas Equation	0.313		0.031	BL02 lab data	0.05	
5	BL	BL03 to SNG Ditch	11	Texas Equation	2.188		0.038	BL03 lab data	0.05	
6	D2	SNG Ditch	15	Louisiana Equation	0.625		0.08	Generic Ditch	0.05	Generic Ditch
7	BL	SNG Ditch to Hwy 434/I-12 Ditch BL	11	Texas Equation	2.188		0.038	BL03 lab data	0.05	
8	D3	Hwy 434/I-12 Ditch BL	15	Louisiana Equation	0.625		0.08	Generic Ditch	0.05	Generic Ditch
9	BL	Hwy 434/I-12 Ditch BL to BL04	11	Texas Equation	2.188		0.038	BL03 lab data	0.05	
10	BL	BL04 to Keller Barn Ditch	11	Texas Equation	1.688		0.029	BL04 lab data	0.05	
11	D4	Keller Barn Ditch	15	Louisiana Equation	0.188		0.08	Generic Ditch	0.05	Generic Ditch
12	BL	Keller Barn Ditch To Beau Village Ditch	11	Texas Equation	1.688		0.029	BL04 lab data	0.05	
13	D5	Beau Village Ditch	15	Louisiana Equation	0.188		0.08	Generic Ditch	0.05	Generic Ditch
14	BL	Beau Village Ditch to BL05	11	Texas Equation	1.688		0.029	BL04 lab data	0.05	
15	BL	BL05 to Hwy 190 Ditch BL	3	O'Connor-Dobbins	1.125		0.045	BL05 lab data	0.05	
16	D6	Hwy 190 Ditch BL	15	Louisiana Equation	0.375		0.08	Generic Ditch	0.05	Generic Ditch
17	BL	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	3	O'Connor-Dobbins	2.250		0.045	BL05 lab data	0.05	
18	D7	Hwy 434/190 Ditch BL	15	Louisiana Equation	0.375		0.08	Generic Ditch	0.05	Generic Ditch
19	BL	Hwy 434/190 Ditch BL to BL06	3	O'Connor-Dobbins	2.250		0.045	BL05 lab data	0.05	
20	BL	BL06 to confluence with BBB	3	O'Connor-Dobbins	2.625		0.041	BL06 lab data	0.05	
21	BB	BB03 to Hwy 434/I-12 ditch BBB	11	Texas Equation	0.500		0.07	BB03 lab data (due to graphing error in spreadsheet, this is based on values in CB and BBB)	0.05	
22	D8	Hwy 434/I-12 Ditch BBB	15	Louisiana Equation	0.125		0.08	Generic Ditch	0.05	Generic Ditch
23	BB	Hwy 434/I-12 Ditch BBB to Folger Ditch	11	Texas Equation	0.500		0.07	BB03 lab data (due to graphing error in spreadsheet, this is based on values in CB and BBB)	0.05	
24	D9	Folger Ditch	15	Louisiana Equation	0.125		0.08	Generic Ditch	0.05	Generic Ditch
25	BB	Folger Ditch to BB02	11	Texas Equation	1.500		0.07	BB03 lab data (due to graphing error in spreadsheet, this is based on values in CB and BBB)	0.05	
26	BB	BB02 to Berry Todd Rd Ditch	3	O'Connor-Dobbins	1.750		0.053	BB02 lab data	0.05	
27	DA	Berry Todd Rd Ditch	15	Louisiana Equation	0.125		0.08	Generic Ditch	0.05	Generic Ditch
28	BB	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	3	O'Connor-Dobbins	1.750		0.053	BB02 lab data	0.05	
29	DB	Hwy 190 Ditch BBB	15	Louisiana Equation	0.125		0.08	Generic Ditch	0.05	Generic Ditch
30	BB	Hwy 190 Ditch BBB to BB01	3	O'Connor-Dobbins	1.750		0.053	BB02 lab data	0.05	
31	BB	BB01 to Confluence With Bayou Lacombe	3	O'Connor-Dobbins	1.750		0.049	BB01 lab data	0.05	
32	BL	Big Branch Bayou to BL07	3	O'Connor-Dobbins	4.375		0.048	BL07 lab	0.05	
33	BL	BL07 to confluence w/ Cypress Bayou	3	O'Connor-Dobbins	1.250		0.048	BL07 lab	0.05	
34	CB	CB03 to Hwy 190 ditch CB	11	Texas Equation	1.500		0.069	CB03 lab data	0.05	
35	DC	Hwy 190 Ditch CB	15	Louisiana Equation	0.125		0.08	Generic Ditch	0.05	Generic Ditch
36	CB	Hwy 190 Ditch CB to CB02	11	Texas Equation	1.500		0.069	CB03 lab data	0.05	
37	CB	CB02 to CB01	3	O'Connor-Dobbins	1.500		0.052	CB02 lab data	0.05	
38	CB	CB01 to confluence w/ Bayou Lacombe	3	O'Connor-Dobbins	0.000		0.054	CB01 lab data	0.05	
39	BL	Cypress Bayou to BL08	3	O'Connor-Dobbins	1.250		0.051	BL08 lab data	0.05	
40	BL	BL08 to BL09	3	O'Connor-Dobbins	1.688		0.051	BL08 lab data	0.05	
41	BL	BL09 to Lake Pontchartrain	3	O'Connor-Dobbins	0.000		0.063	BL09 lab data	0.05	

DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS					
Reach	**Name**	**NBOD decay rate, 1/day**	**Data Source**	**NBOD settling rate, 1/day**	**Data Source**
1	BL01 TO Hwy 36 Ditch BL	0.005	BL01 lab	0.05	Calibration--for all reaches except ditches
2	Hwy 36 Ditch BL	0.030	Generic Ditch	0.05	Generic Ditch
3	Hwy 36 Ditch BL to BL02	0.005	BL01 lab	0.05	
4	BL02 to BL03	0.595	BL02 lab	0.05	
5	BL03 to SNG Ditch	0.041	BL03 lab	0.05	
6	SNG Ditch	0.030	Generic Ditch	0.05	Generic Ditch
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0.041	BL03 lab	0.05	
8	Hwy 434/I-12 Ditch BL	0.030	Generic Ditch	0.05	Generic Ditch
9	Hwy 434/I-12 Ditch BL to BL04	0.041	BL03 lab	0.05	
10	BL04 to Keller Barn Ditch	0.070	BL04 lab	0.05	
11	Keller Barn Ditch	0.030	Generic Ditch	0.05	Generic Ditch
12	Keller Barn Ditch To Beau Village Ditch	0.070	BL04 lab	0.05	
13	Beau Village Ditch	0.03	Generic Ditch	0.05	Generic Ditch
14	Beau Village Ditch to BL05	0.07	BL04 lab	0.05	
15	BL05 to Hwy 190 Ditch BL	0.052	BL05 lab	0.05	
16	Hwy 190 Ditch BL	0.03	Generic Ditch	0.05	Generic Ditch
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.052	BL05 lab	0.05	
18	Hwy 434/190 Ditch BL	0.03	Generic Ditch	0.05	Generic Ditch
19	Hwy 434/190 Ditch BL to BL06	0.052	BL05 lab	0.05	
20	BL06 to confluence with BBB	0.089	BL06 lab	0.05	
21	BB03 to Hwy 434/I-12 ditch BBB	0.595	BB03 lab	0.05	
22	Hwy 434/I-12 Ditch BBB	0.03	Generic Ditch	0.05	Generic Ditch
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0.595	BB03 lab	0.05	
24	Folger Ditch	0.03	Generic Ditch	0.05	Generic Ditch
25	Folger Ditch to BB02	0.595	BB03 lab	0.05	
26	BB02 to Berry Todd Rd Ditch	0.106	BB02 lab	0.05	
27	Berry Todd Rd Ditch	0.03	Generic Ditch	0.05	Generic Ditch
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	0.106	BB02 lab	0.05	
29	Hwy 190 Ditch BBB	0.03	Generic Ditch	0.05	Generic Ditch
30	Hwy 190 Ditch BBB to BB01	0.106	BB02 lab	0.05	
31	BB01 to Confluence With Bayou Lacombe	0.042	BB01 lab data	0.05	
32	Big Branch Bayou to BL07	0.129	BL07 lab	0.05	
33	BL07 to confluence w/ Cypress Bayou	0.129	BL07 lab	0.05	
34	CB03 to Hwy 190 ditch CB	0.136	CB03 lab	0.05	
35	Hwy 190 Ditch CB	0.03	Generic Ditch	0.05	Generic Ditch
36	Hwy 190 Ditch CB to CB02	0.136	CB03 lab	0.05	
37	CB02 to CB01	0.054	CB02 lab	0.05	
38	CB01 to confluence w/ Bayou Lacombe	0.08	CB01 lab	0.05	
39	Cypress Bayou to BL08	0.064	BL08 lab	0.05	
40	BL08 to BL09	0.064	BL08 lab	0.05	
41	BL09 to Lake Pontchartrain	0.101	BL09 lab	0.05	

DATA TYPE 16 - INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVE								
Reach	Reach Name	Incr. Inflow, m^3 per sec	Data Source	Temp, deg C	Sal., ppt	Cons. Mat I=Chloride mg/L	Cons. Mat II=Cond µS/cm	Data Source
1	BL01 TO Hwy 36 Ditch BL	0.179959	Flow balance	20.85	0.01	5.6	51.6	BL01 CONT MON AND LAB DATA
2	Hwy 36 Ditch BL	0.000000						
3	Hwy 36 Ditch BL to BL02	0.000000						
4	BL02 to BL03	0.041881	Flow balance	21.28	0.00	5.5	56	BL02 CONT MON AND LAB DATA
5	BL03 to SNG Ditch	0.043261	Flow balance	22.03	0.00	5.7	58.04	BL03 CONT MON AND LAB DATA
6	SNG Ditch	0.000000						
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0.000000						
8	Hwy 434/I-12 Ditch BL	0.000000						
9	Hwy 434/I-12 Ditch BL to BL04	0.000000						
10	BL04 to Keller Barn Ditch	0.000000						
11	Keller Barn Ditch	0.000000						
12	Keller Barn Ditch To Beau Village Ditch	0.000000						
13	Beau Village Ditch	0.000000						
14	Beau Village Ditch to BL05	0.000000						
15	BL05 to Hwy 190 Ditch BL	0.000000						
16	Hwy 190 Ditch BL	0.000000						
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.000000						
18	Hwy 434/190 Ditch BL	0.000000						
19	Hwy 434/190 Ditch BL to BL06	0.000000						
20	BL06 to confluence with BBB	0.000000						
21	BB03 to Hwy 434/I-12 ditch BBB	0.147505	Flow balance	21.66	0.00	10.4	95.61	BB03 CONT MON AND LAB DATA
22	Hwy 434/I-12 Ditch BBB	0.000000						
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0.000000						
24	Folger Ditch	0.000000						
25	Folger Ditch to BB02	0.000000						
26	BB02 to Berry Todd Rd Ditch	0.000000						
27	Berry Todd Rd Ditch	0.000000						
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	0.000000						
29	Hwy 190 Ditch BBB	0.000000						
30	Hwy 190 Ditch BBB to BB01	0.000000						
31	BB01 to Confluence With Bayou Lacombe	0.000000						
32	Big Branch Bayou to BL07	0.000000						
33	BL07 to confluence w/ Cypress Bayou	0.000000						
34	CB03 to Hwy 190 ditch CB	0.188823	Flow balance	23.25	0.14	22.5	286.9	CB03 INSITU AND LAB DATA
35	Hwy 190 Ditch CB	0.000000						
36	Hwy 190 Ditch CB to CB02	0.000000						
37	CB02 to CB01	0.000000						
38	CB01 to confluence w/ Bayou Lacombe	0.000000						
39	Cypress Bayou to BL08	0.000000						
40	BL08 to BL09	0.000000						
41	BL09 to Lake Pontchartrain	0.000000						

DATA TYPE 17 - INCREMENTAL DATA FOR DO, BOD, AND NITROGEN						
Reach	Reach Name	DO, mg/l	Data Source	UCBOD1, mg/l	NBOD, mg/L	Data Source
1	BL01 TO Hwy 36 Ditch BL	5	Criterion	1.91	0.0	Reduction required to meet criterion
2	Hwy 36 Ditch BL					
3	Hwy 36 Ditch BL to BL02					
4	BL02 to BL03	5	Criterion	1.65	0.03	Reduction required to meet criterion
5	BL03 to SNG Ditch	5	Criterion	2.99	0.49	Reduction required to meet criterion
6	SNG Ditch					
7	SNG Ditch to Hwy 434/I-12 Ditch BL					
8	Hwy 434/I-12 Ditch BL					
9	Hwy 434/I-12 Ditch BL to BL04					
10	BL04 to Keller Barn Ditch					
11	Keller Barn Ditch					
12	Keller Barn Ditch To Beau Village Ditch					
13	Beau Village Ditch					
14	Beau Village Ditch to BL05					
15	BL05 to Hwy 190 Ditch BL					
16	Hwy 190 Ditch BL					
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL					
18	Hwy 434/190 Ditch BL					
19	Hwy 434/190 Ditch BL to BL06					
20	BL06 to confluence with BBB					
21	BB03 to Hwy 434/I-12 ditch BBB	4	Criterion	0.67	0.01	Reduction required to meet criterion
22	Hwy 434/I-12 Ditch BBB					
23	Hwy 434/I-12 Ditch BBB to Folger Ditch					
24	Folger Ditch					
25	Folger Ditch to BB02					
26	BB02 to Berry Todd Rd Ditch					
27	Berry Todd Rd Ditch					
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB					
29	Hwy 190 Ditch BBB					
30	Hwy 190 Ditch BBB to BB01					
31	BB01 to Confluence With Bayou Lacombe					
32	Big Branch Bayou to BL07					
33	BL07 to confluence w/ Cypress Bayou					
34	CB03 to Hwy 190 ditch CB	4	Criterion	4.1	0.64	Reduction required to meet criterion
35	Hwy 190 Ditch CB					
36	Hwy 190 Ditch CB to CB02					
37	CB02 to CB01					
38	CB01 to confluence w/ Bayou Lacombe					
39	Cypress Bayou to BL08					
40	BL08 to BL09					
41	BL09 to Lake Pontchartrain					

DATA TYPE 19 - NONPOINT SOURCES					
Reach	Reach Name	Length of Reach, km	UCBOD1, kg/day	NBOD, kg/day	Data Source
1	BL01 TO Hwy 36 Ditch BL	0.1	0.000	0.000	All reaches: Reduction required to meet criterion.
2	Hwy 36 Ditch BL	4.2	0.079	0.021	
3	Hwy 36 Ditch BL to BL02	5.7	0.000	0.000	
4	BL02 to BL03	4.9	31.250	6.250	
5	BL03 to SNG Ditch	0.9	0.000	0.000	
6	SNG Ditch	2.1	0.040	0.011	
7	SNG Ditch to Hwy 434/I-12 Ditch BL	0.3	0.000	0.000	
8	Hwy 434/I-12 Ditch BL	3.0	0.058	0.016	
9	Hwy 434/I-12 Ditch BL to BL04	0.2	0.000	0.000	
10	BL04 to Keller Barn Ditch	1.6	18.750	9.750	
11	Keller Barn Ditch	0.9	0.005	0.002	
12	Keller Barn Ditch To Beau Village Ditch	2.7	31.875	9.750	
13	Beau Village Ditch	3.0	0.018	0.005	
14	Beau Village Ditch to BL05	1.4	18.750	9.750	
15	BL05 to Hwy 190 Ditch BL	2.1	93.750	33.750	
16	Hwy 190 Ditch BL	2.2	0.026	0.008	
17	Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.1	0.000	0.000	
18	Hwy 434/190 Ditch BL	2.2	0.026	0.008	
19	Hwy 434/190 Ditch BL to BL06	0.1	0.000	0.000	
20	BL06 to confluence with BBB	2.1	112.500	0.000	
21	BB03 to Hwy 434/I-12 ditch BBB	0.1	0.000	0.000	
22	Hwy 434/I-12 Ditch BBB	6.5	0.025	0.007	
23	Hwy 434/I-12 Ditch BBB to Folger Ditch	0.2	0.000	0.000	
24	Folger Ditch	0.4	0.001	0.001	
25	Folger Ditch to BB02	2.9	6.250	0.000	
26	BB02 to Berry Todd Rd Ditch	0.1	0.000	0.000	
27	Berry Todd Rd Ditch	2.0	0.008	0.002	
28	Berry Todd Rd Ditch to Hwy 190 Ditch BBB	1.1	8.750	0.000	
29	Hwy 190 Ditch BBB	1.3	0.005	0.002	
30	Hwy 190 Ditch BBB to BB01	0.5	8.750	0.000	
31	BB01 to Confluence With Bayou Lacombe	0.3	97.500	50.000	
32	Big Branch Bayou to BL07	0.1	0.000	0.000	
33	BL07 to confluence w/ Cypress Bayou	2.4	250.000	0.000	
34	CB03 to Hwy 190 ditch CB	0.3	0.000	0.000	
35	Hwy 190 Ditch CB	1.6	0.006	0.002	
36	Hwy 190 Ditch CB to CB02	1.7	16.250	0.000	
37	CB02 to CB01	2.7	37.500	0.000	
38	CB01 to confluence w/ Bayou Lacombe	0.2	12.500	0.000	
39	Cypress Bayou to BL08	0.2	0.000	0.000	
40	BL08 to BL09	5.8	1687.500	562.500	
41	BL09 to Lake Pontchartrain	0.3	250.000	0.000	

DATA TYPE 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES							
Headwater Name	**Element No.**	**Headwater Flow, cms**	**Temp, deg C**	**Salinity, ppt**	**Conservative Material I (chloride, mg/L)**	**Conservative Material II (conductivity, µS/cm)**	**Data Source**
Bayou Lacombe	1	0.092	19.6	0.01	5.6	51.6	Flow & WQ=BL01. Temp=90th percentile temperature from water quality network site 0300.
Ditch #1: Hwy 36 ditch BL	11	0.00280	19.6	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Ditch #2: SNG ditch	168	0.00280	19.6	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Ditch #3: Hwy 434/I-12 BL	192	0.00280	19.6	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Ditch #4: Keller Barn ditch	240	0.00280	19.6	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Ditch #5: Beau Village ditch	276	0.00280	19.6	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Ditch #6: Hwy 190 ditch BL	341	0.00280	19.6	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Ditch #7: Hwy 434/190 ditch BL	373	0.00280	19.6	0.01	5.6	51.6	Minimal flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BL01.
Big Branch Bayou	426	0.009	19.6	0	10.4	95.61	Flow & WQ=BB03. Temp=90th percentile temperature from water quality network site 0300
Ditch #8: Hwy 434/I-12 ditch BBB	436	0.00280	19.6	0	10.4	95.61	Minimal Flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BB03
Ditch #9: Folger ditch	521	0.00280	19.6	0	10.4	95.61	Minimal Flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BB03
Ditch A: Berry Todd Rd ditch	564	0.00280	19.6	0	10.4	95.61	Minimal Flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BB03
Ditch B: Hwy 190 ditch BBB	595	0.00280	19.6	0	10.4	95.61	Minimal Flow. Temp=90th percentile temperature from water quality network site 0300. WQ=BB03
Cypress Bayou	650	0.023	23.3	0.14	22.5	286.9	Flow & WQ=CB03. Temp=90th percentile temperature from water quality network site 1047.
Ditch C: Hwy 190 ditch CB	653	0.00280	23.3	0.14	22.5	286.9	Minimal Flow. Temp=90th percentile temperature from water quality network site 1047. WQ=CB03.

DATA TYPE 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN					
Headwater Name	**Element No.**	**Dissolved Oxygen, mg/L**	**UCBOD1, mg/l**	**UNBOD mg/L**	**Data Source**
Bayou Lacombe	1	5.0	1.913	0.000	All reaches: DO=criterion. UCBOD and UNBOD=reduction required to meet criterion.
Ditch #1: Hwy 36 ditch BL	11	5.0	2.750	1.250	
Ditch #2: SNG ditch	168	5.0	2.750	1.250	
Ditch #3: Hwy 434/I-12 BL	192	5.0	2.750	1.250	
Ditch #4: Keller Barn ditch	240	5.0	0.825	0.375	
Ditch #5: Beau Village ditch	276	5.0	0.825	0.375	
Ditch #6: Hwy 190 ditch BL	341	4.0	1.650	0.750	
Ditch #7: Hwy 434/190 ditch BL	373	4.0	1.650	0.750	
Big Branch Bayou	426	4.0	0.671	0.012	
Ditch #8: Hwy 434/I-12 ditch BBB	436	4.0	0.550	0.250	
Ditch #9: Folger ditch	521	4.0	0.550	0.250	
Ditch A: Berry Todd Rd ditch	564	4.0	0.550	0.250	
Ditch B: Hwy 190 ditch BBB	595	4.0	0.550	0.250	
Cypress Bayou	650	4.0	4.096	0.638	
Ditch C: Hwy 190 ditch CB	653	4.0	0.550	0.250	

DATA TYPE 23 - JUNCTION DATA		
Junction Name	**Computational element number of the element immediately downstream of the junction**	**Computational element number of the element immediately upstream of the junction**
Hwy 36 ditch BL confluence with Bayou Lacombe	53	10
Ditch #2-SNG Ditch confluence with Bayou Lacombe	189	167
Ditch #3-Hwy 434/I-12 Ditch BL confluence with Bayou Lacombe	222	191
Ditch #4-Keller Barn Ditch confluence with Bayou Lacombe	249	239
Ditch #5-Beau Village Ditch confluence with Bayou Lacombe	306	275
Ditch #6-Hwy 190 Ditch BL confluence with Bayou Lacombe	363	340
Ditch #7-Hwy 434/190 Ditch BL confluence with Bayou Lacombe	395	372
Ditch #8-Hwy 434/I-12 Ditch BBB confluence with Big Branch Bayou	501	435
Ditch #9-Folger Ditch confluence with Big Branch Bayou	525	520
Ditch A-Berry Todd Rd Ditch confluence with Big Branch Bayou	584	563
Ditch B-Hwy 190 Ditch BBB confluence with Big Branch Bayou	608	594
Big Branch Bayou confluence with Bayou Lacombe	616	425
Ditch C-Hwy 190 Ditch CB confluence with Cypress Bayou	669	652
Cypress Bayou confluence with Bayou Lacombe	715	649

DATA TYPE 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES									
Wasteload / Withdrawal Name	EL #	Flow, cms	Data Source	Temperature, deg C	Data Source	Salinity, ppt	Conservative Material I (chloride, mg/L)	Conservative Material II (conductivity, µS/cm)	Data Source
AI 138040, Animal Services Campus - St. Tammany Parish Government	12	0.0002191	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 120304, St Tammany Speedway	40	0.0001315	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 94746, Southern Natural Gas Co - Lacombe Compressor Station	169	0.0001369	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 155402, Axonic, LLC, Neurology Clinic	196	0.0000548	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 1 Hwy. 434/I-12 ditch BL (AIs 122894, 149786, 41574, 116987, 94618, 118350, 86020, 43188, 102362)	206	0.0002788	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 2 Hwy. 434/I-12 ditch BL (AIs 151676, 128325, 52076)	208	0.0005728	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Unnamed Tributary	223	0.004389	UNT01	21.85	UNT01	0.02	7.4	62.6	UNT01
AI 119164, St Tammany Parish Government - Keller Barn	241	0.0000076	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157591, Carmelite Spirituality Center - Sisters of Mt Carmel	272	0.0000274	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 33916, WTSO Utilities, Beau Village Subdivision	277	0.0013144	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 93344, US Fish & Wildlife Service - Southeast Louisiana Refuges	325	0.0000614	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 43023, Regina Coeli Child Development Center - Lacombe/Mandeville Head Start	342	0.0001068	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 40796, Janie Brown's Casual Restaurant	344	0.0000959	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 1 on Hwy. 190 ditch BL: AIs 157721, 154892	349	0.0000208	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 2 on Hwy. 190 ditch BL: AIs 157850, 99609, 157435	350	0.0004244	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 3 on Hwy. 190 ditch BL: AIs 89241, 84112, 43400	352	0.000804	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 4 on Hwy. 190 ditch BL: AIs 6470, 157670, 130003, 149801	353	0.0000488	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 43406, Bayou Lacombe Middle School	354	0.0002519	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 5 on Hwy. 190 ditch BL: AIs 42348, 142046, 157759, 157768, 155069, 75810, 75143, 157523	358	0.0001758	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
Cluster 6 on Hwy. 190 ditch BL: AIs 33986, 70935, 151841, 122511, 114927, 43087, 162031	360	0.0012046	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities

DATA TYPE 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES									
Wasteload / Withdrawal Name	EL #	Flow, cms	Data Source	Temperature, deg C	Data Source	Salinity, ppt	Conservative Material I (chloride, mg/L)	Conservative Material II (conductivity, µS/cm)	Data Source
AI 97944, Hwy 434 Mini Storage Inc	374	0.0000011	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157861, Kingdom Hall of Jehovah's Witnesses	390	0.0000411	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 119750, Highway 434 Retail Space	391	0.000012	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 165334, H2O Systems, Inc., St. Tammany Parish Coroner's Complex	442	0.0000384	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 94173, Southeastern Louisiana Water & Sewer Co.,LLC, Medcath WWTP, LA Medical Center & Heart Hospital	464	0.003286	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 114220, Folger Coffee Co - Lacombe Distribution Center	522	0.0002191	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157509, Feather & Fin Ranch	565	0.0030669	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 156133, Python Corporation - Office/Warehouse	596	0.0000066	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 101375, OW Inc - Bayou Mini Storage	602	0.0000011	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 31079, Brier Lake Utilities Inc - Brier Lake Estates	651	0.0021906	Expected flow X 1.25	23.06	survey data	0.26	23.5	516.3	survey data
AI 156693, H2O Systems Inc - Cypress Park Subdivision	652	0.0065719	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 127495, A to Z Preschool LLC	654	0.0000931	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 123821, Kevin J. Smith Construction Company - Smith Office Building	655	0.000011	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157767, St Tammany Fire Protection District 3 - Fire Station 32	660	0.0000011	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 157892, Mottie McClary/Southern Motor Carrier Safety Consultants	661	0.0000023	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 119584, Tiller of the Land	663	0.0000055	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 41881, ICO Corp	674	0.0000044	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities
AI 117076, LA Pines Ranch Inc	677	0.0002738	Expected flow X 1.25	30.6	Average of 7 previously sampled facilities	0.37	57.9	719.7	Average of 7 previously sampled facilities

DATA TYPE 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN					
Wasteload / Withdrawal Name	**Element #**	**DO, mg/l**	**UCBOD1, mg/l**	**UNBOD, mg/l**	**Data Source**
AI 138040, Animal Services Campus - St. Tammany Parish Government	12	2	69	64.5	Permit limit required to meet criterion.
AI 120304, St Tammany Speedway	40	2	103.5	64.5	Permit limit required to meet criterion.
AI 94746, Southern Natural Gas Co - Lacombe Compressor Station	169	2	103.5	64.5	Permit limit required to meet criterion.
AI 155402, Axonic, LLC, Neurology Clinic	196	2	103.5	64.5	Permit limit required to meet criterion.
Cluster 1 Hwy. 434/I-12 ditch BL (AIs 122894, 149786, 41574, 116987, 94618, 118350, 86020, 43188, 102362)	206	2	103.5	64.5	Permit limit required to meet criterion.
Cluster 2 Hwy. 434/I-12 ditch BL (AIs 151676, 128325, 52076)	208	2	69	64.5	Permit limit required to meet criterion.
Unnamed Tributary	223	4.24	3.887	0.137	UNT01
AI 119164, St Tammany Parish Government - Keller Barn	241	2	23	21.5	Permit limit required to meet criterion.
AI 157591, Carmelite Spirituality Center - Sisters of Mt Carmel	272	2	23	21.5	Permit limit required to meet criterion.
AI 33916, WTSO Utilities, Beau Village Subdivision	277	2	11.5	8.6	Permit limit required to meet criterion.
AI 93344, US Fish & Wildlife Service - Southeast Louisiana Refuges	325	2	23	21.5	Permit limit required to meet criterion.
AI 43023, Regina Coeli Child Development Center - Lacombe/Mandeville Head Start	342	2	46	43	Permit limit required to meet criterion.
AI 40796, Janie Brown's Casual Restaurant	344	2	46	43	Permit limit required to meet criterion.
Cluster 1 on Hwy. 190 ditch BL: AIs 157721, 154892	349	2	46	43	Permit limit required to meet criterion.
Cluster 2 on Hwy. 190 ditch BL: AIs 157850, 99609, 157435	350	2	46	43	Permit limit required to meet criterion.
Cluster 3 on Hwy. 190 ditch BL: AIs 89241, 84112, 43400	352	2	46	43	Permit limit required to meet criterion.
Cluster 4 on Hwy. 190 ditch BL: AIs 6470, 157670, 130003, 149801	353	2	46	43	Permit limit required to meet criterion.
AI 43406, Bayou Lacombe Middle School	354	2	23	21.5	Permit limit required to meet criterion.
Cluster 5 on Hwy. 190 ditch BL: AIs 42348, 142046, 157759, 157768, 155069, 75810, 75143, 157523	358	2	46	43	Permit limit required to meet criterion.
Cluster 6 on Hwy. 190 ditch BL: AIs 33986, 70935, 151841, 122511, 114927, 43087, 162031	360	2	46	43	Permit limit required to meet criterion.

DATA TYPE 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN					
Wasteload / Withdrawal Name	**Element #**	**DO, mg/l**	**UCBOD1, mg/l**	**UNBOD, mg/l**	**Data Source**
AI 97944, Hwy 434 Mini Storage Inc	374	2	46	43	Permit limit required to meet criterion.
AI 157861, Kingdom Hall of Jehovah's Witnesses	390	2	46	43	Permit limit required to meet criterion.
AI 119750, Highway 434 Retail Space	391	2	46	43	Permit limit required to meet criterion.
AI 165334, H2O Systems, Inc., St. Tammany Parish Coroner's Complex	442	2	23	8.6	Permit limit required to meet criterion.
AI 94173, Southeastern Louisiana Water & Sewer Co.,LLC, Medcath WWTP, LA Medical Center & Heart Hospital	464	2	11.5	8.6	Permit limit required to meet criterion.
AI 114220, Folger Coffee Co - Lacombe Distribution Center	522	2	23	8.6	Permit limit required to meet criterion.
AI 157509, Feather & Fin Ranch	565	2	23	8.6	Permit limit required to meet criterion.
AI 156133, Python Corporation - Office/Warehouse	596	2	23	8.6	Permit limit required to meet criterion.
AI 101375, OW Inc - Bayou Mini Storage	602	2	23	8.6	Permit limit required to meet criterion.
AI 31079, Brier Lake Utilities Inc - Brier Lake Estates	651	2	11.5	8.6	Permit limit required to meet criterion.
AI 156693, H2O Systems Inc - Cypress Park Subdivision	652	5	11.5	8.6	Permit limit required to meet criterion.
AI 127495, A to Z Preschool LLC	654	2	23	8.6	Permit limit required to meet criterion.
AI 123821, Kevin J. Smith Construction Company - Smith Office Building	655	2	23	8.6	Permit limit required to meet criterion.
AI 157767, St Tammany Fire Protection District 3 - Fire Station 32	660	2	23	8.6	Permit limit required to meet criterion.
AI 157892, Mottie McClary/Southern Motor Carrier Safety Consultants	661	2	23	8.6	Permit limit required to meet criterion.
AI 119584, Tiller of the Land	663	2	23	8.6	Permit limit required to meet criterion.
AI 41881, ICO Corp	674	2	23	8.6	Permit limit required to meet criterion.
AI 117076, LA Pines Ranch Inc	677	2	23	8.6	Permit limit required to meet criterion.

DATA TYPE 27 - LOWER BOUNDARY CONDITIONS Survey Site Name:			
Parameter	**Value**	**Units**	**Data Source**
TEMPERATURE	23.3	deg C	90th percentile temperature from water quality network site 1047.
SALINITY	7.02	ppt	LP01 - CONT MONITOR
CONSERVATIVE MATERIAL I (chloride)	4128	mg/l	LP01 - LAB DATA
CONSERVATIVE MATERIAL II (conductivity)	12216	umhos/cm	LP01 - CONT MONITOR
DISSOLVED OXYGEN	7.14	mg/l	LP01 - CONT MONITOR
BIOCHEMICAL OXYGEN DEMAND 1	5.012	mg/l	LP01 - LAB DATA
CHLOROPHYLL A	8.3	ug/l	LP01 - LAB DATA
NBOD	1.166	mg/l	LP01 - LAB DATA

Appendix E - Projection Model Development

Appendix E1 – Summer Loading

Summer Projection, Non-Point Benthic Load Input and TMDL Calculations:

Modeled water body: **Bayou Lacombe Subsegment 040901**

Shaded cells are input values for calculations. MARGIN OF SAFETY (MOS) (%) = [MOG + MOU] = **20%**

Values to be used in the projection models. Note: Margin of Safety applies only to Man-Made loads, not Backgr

	Calibration Model Values															Reduced Man-Made Loads					Projected Model Loads					
Reach Number and Description	Non-Point UCBOD1	Total Non-Point UCBOD	Total Non-Point UNBOD	SOD @ 20°C	Total Calb. Benthic Load (TCBL)	Reach Length	Proj. Model Avg. Reach Width	Proj. Temp.	Background Benthic Load	Effective Background Benthic Load	Man-Made Benthic Load	Percentage Reduction of man-made sources	Reduced Background Benthic Load	Reduced Man-Made Benthic Load	Reduced TCBL adjusted for MOS	Reduced UCBOD1 Load	Reduced Total UCBOD Load	Reduced UNBOD Load	Reduced SOD Load at Projection Temp.	SOD @ 20°C	Non-Point UCBOD1 INPUTS	Non-Point UNBOD INPUTS	**Total MOS at Projection Temp.**	**Non-Point UCBOD1 LA**	**Non-Point UNBOD LA**	**SOD LA at Projection Temp.**
	$g\ O_2 / [(m^2)(day)]$	$g\ O_2 / [(m^2)(day)]$	$g\ O_2 / [(m^2)(day)]$	$g\ O_2 / [(m^2)(day)]$	$g\ O_2 / [(m^2)(day)]$	Kilo-meters	Meters	(deg Celsius)	$g\ O_2 / [(m^2)(day)]$	$g\ O_2 / [(m^2)(day)]$	$g\ O_2 / [(m^2)(day)]$	%	$g\ O_2 / [(m^2)(day)]$	$g\ O_2 / [(m^2)(day)]$	$g\ O_2 / [(m^2)(day)]$	$kg\ O_2/day$	$kg\ O_2/day$	$kg\ O_2/day$	$kg\ O_2/day$	$g\ O_2 / [(m^2)(day)]$	$kg\ O_2/day$	$kg\ O_2/day$	$kg\ O_2/day$	$kg\ O_2/day$	$kg\ O_2/day$	$kg\ O_2/day$
1, BL01 TO Hwy 36 Ditch BL	0.000	0.000	0.000	0.00	0.000	0.10	5.790	28.4	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	0.00	0.00	0.00
2, Hwy 36 Ditch BL	0.015	0.015	0.004	0.50	0.519	4.20	1.000	28.4	0.00	0.00	0.52	0%	0.00	0.52	0.65	0.06	0.06	0.02	3.56	0.625	0.079	0.021	0.91	0.06	0.02	3.56
3, Hwy 36 Ditch BL to BL02	0.000	0.000	0.000	0.25	0.250	5.70	5.790	28.4	0.00	0.00	0.25	0%	0.00	0.25	0.31	0.00	0.00	0.00	14.00	0.313	0.000	0.000	3.50	0.00	0.00	14.00
4, BL02 to BL03	0.836	0.836	0.167	0.25	1.254	4.90	6.100	28.4	0.00	0.00	1.25	0%	0.00	1.25	1.57	25.00	25.00	5.00	12.68	0.313	31.250	6.250	10.67	25.00	5.00	12.68
5, BL03 to SNG Ditch	0.000	0.000	0.000	1.75	1.750	0.90	7.160	28.4	0.00	0.00	1.75	0%	0.00	1.75	2.19	0.00	0.00	0.00	19.14	2.188	0.000	0.000	4.78	0.00	0.00	19.14
6, SNG Ditch	0.015	0.015	0.004	0.50	0.520	2.10	1.000	28.4	0.00	0.00	0.52	0%	0.00	0.52	0.65	0.03	0.03	0.01	1.78	0.625	0.040	0.011	0.46	0.03	0.01	1.78
7, SNG Ditch to Hwy 434/I-12 Ditch BL	0.000	0.000	0.000	1.75	1.750	0.30	7.160	28.4	0.00	0.00	1.75	0%	0.00	1.75	2.19	0.00	0.00	0.00	6.38	2.188	0.000	0.000	1.59	0.00	0.00	6.38
8, Hwy 434/I-12 Ditch BL	0.015	0.015	0.004	0.50	0.520	3.00	1.000	28.4	0.00	0.00	0.52	0%	0.00	0.52	0.65	0.05	0.05	0.01	2.55	0.625	0.058	0.016	0.65	0.05	0.01	2.55
9, Hwy 434/I-12 Ditch BL to BL04	0.000	0.000	0.000	1.75	1.750	0.20	7.160	28.4	0.00	0.00	1.75	0%	0.00	1.75	2.19	0.00	0.00	0.00	4.25	2.188	0.000	0.000	1.06	0.00	0.00	4.25
10, BL04 to Keller Barn Ditch	3.360	3.360	1.747	4.50	9.608	1.60	9.300	28.4	0.00	0.00	9.61	70%	0.00	2.88	3.60	15.00	15.00	7.80	34.09	1.688	18.750	9.750	14.22	15.00	7.80	34.09
11, Keller Barn Ditch	0.016	0.016	0.004	0.50	0.520	0.90	1.000	28.4	0.00	0.00	0.52	70%	0.00	0.16	0.20	0.00	0.00	0.00	0.23	0.188	0.005	0.002	0.06	0.00	0.00	0.23
12, Keller Barn Ditch To Beau Village Ditch	3.385	3.385	1.035	4.50	8.921	2.70	9.300	28.4	0.00	0.00	8.92	70%	0.00	2.68	3.35	25.50	25.50	7.80	57.53	1.688	31.875	9.750	22.71	25.50	7.80	57.53
13, Beau Village Ditch	0.016	0.016	0.004	0.50	0.520	3.00	1.000	28.4	0.00	0.00	0.52	70%	0.00	0.16	0.20	0.01	0.01	0.00	0.76	0.188	0.018	0.005	0.20	0.01	0.00	0.76
14, Beau Village Ditch to BL05	3.840	3.840	1.997	4.50	10.337	1.40	9.300	28.4	0.00	0.00	10.34	70%	0.00	3.10	3.88	15.00	15.00	7.80	29.83	1.688	18.750	9.750	13.16	15.00	7.80	29.83
15, BL05 to Hwy 190 Ditch BL	4.705	4.705	1.694	3.00	9.399	2.10	25.300	28.4	0.00	0.00	9.40	70%	0.00	2.82	3.52	75.00	75.00	27.00	81.16	1.125	93.750	33.750	45.79	75.00	27.00	81.16
Sub-Total										0.00	47.62		0.00	20.10	25.13	155.66	155.66	55.44	267.96		194.57	69.31	119.77	**155.66**	**55.44**	**267.96**

Summer TMDL Calculations for Point Source loads:

Bayou Lacombe Subsegment 040901

Input data into the shaded cells.

Point Source Loading Calculations

Pt. Source / Facility Description and Reach #	AI No.	Permit No.	First Named Receiving Stream	Included in the Projection Model (Yes/No)	Anticipated/ design flow (gpd)	Anticipated/ design flow (cms)	Flow with MOS (gpd)	Flow with MOS (cms)	Proposed Permit Limits			UCBOD				UNBOD				Sub-Total of Point Source BOD Loads				
									$CBOD_5$ (mg/l)	NH_3N (mg/l)	MOS (%)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	**Loads (kg/day)**	**WLA (kg/day)**	**WLA (lbs/day)**	**Reserve/ MOS (kg/day)**	**Reserve/ MOS (lbs/day)**
						A		**A1 = A/(1-E)**	**B**	**C**	**E**	**F = 2.3 x B**	**G = (86.4)(A1)(F)**	**H = (1-E) x G**	**I = (E)(G)**	**J = 4.3 x C**	**K = (86.4)(A1)(J)**	**L = (1-E) x K**	**M = (D)(K)**	**G + K + N**	**H + L +O**	**H + L + O**	**I + M + P**	**I + M + P**
WTSO Utilities, Beau Village Subdivision	33916	LAG570118	Bayou Lacombe	Yes	24,000	0.0010515	30,000	0.0013144	5	2	20%	11.50	1.31	1.04	0.26	8.60	0.98	0.78	0.20	**2.28**	**1.83**	**4.03**	**0.46**	**1.01**
Frito-Lay Inc	41574	LAG530665	Bayou Lacombe	Yes	300	0.0000131	375	0.0000164	45	15	20%	103.50	0.15	0.12	0.03	64.50	0.09	0.07	0.02	**0.24**	**0.19**	**0.42**	**0.05**	**0.11**
Central Progressive Bank - Operations Center	43188	LAG530822	Bayou Lacombe	Yes	2,499	0.0001095	3,124	0.0001369	45	15	20%	103.50	1.22	0.98	0.24	64.50	0.76	0.61	0.15	**1.99**	**1.59**	**3.50**	**0.40**	**0.88**
Pavestone Co.	52076	LAG480263	Bayou Lacombe	Yes	2,239	0.0000981	2,799	0.0001226	30	15	20%	69.00	0.73	0.58	0.15	64.50	0.68	0.55	0.14	**1.41**	**1.13**	**2.49**	**0.28**	**0.62**
Coast Concrete Service Inc	86020	LAG531123	Bayou Lacombe	Yes	200	0.0000088	250	0.0000110	45	15	20%	103.50	0.10	0.08	0.02	64.50	0.06	0.05	0.01	**0.16**	**0.13**	**0.28**	**0.03**	**0.07**
US Fish & Wildlife Service - Southeast Louisiana Refuges	93344	LAG531332	Bayou Lacombe	Yes	1,120	0.0000491	1,400	0.0000613	10	5	20%	23.00	0.12	0.10	0.02	21.50	0.11	0.09	0.02	**0.24**	**0.19**	**0.42**	**0.05**	**0.10**
North Shore Unitarian Universalist Society Church	94618	LAG531308	Bayou Lacombe	Yes	850	0.0000372	1,063	0.0000466	45	15	20%	103.50	0.42	0.33	0.08	64.50	0.26	0.21	0.05	**0.68**	**0.54**	**1.19**	**0.14**	**0.30**
Southern Natural Gas Co - Lacombe Compressor Station	94746	LAG531415	Bayou Lacombe	Yes	2,499	0.0001095	3,124	0.0001369	45	15	20%	103.50	1.22	0.98	0.24	64.50	0.76	0.61	0.15	**1.99**	**1.59**	**3.50**	**0.40**	**0.88**
Central Progressive Bank - Krentel Road Office/Warehouse Complex	102362	LAG531352	Bayou Lacombe	Yes	600	0.0000263	750	0.0000329	45	15	20%	103.50	0.29	0.24	0.06	64.50	0.18	0.15	0.04	**0.48**	**0.38**	**0.84**	**0.10**	**0.21**
Krentel Road Office Building	116987	LAG531504	Bayou Lacombe	Yes	60	0.0000026	75	0.0000033	45	15	20%	103.50	0.03	0.02	0.01	64.50	0.02	0.01	0.00	**0.05**	**0.04**	**0.08**	**0.01**	**0.02**
Lacombe Land LLC - The North Institute Project	118350	LAG531823	Bayou Lacombe	Yes	500	0.0000219	625	0.0000274	45	15	20%	103.50	0.24	0.20	0.05	64.50	0.15	0.12	0.03	**0.40**	**0.32**	**0.70**	**0.08**	**0.18**
St Tammany Parish Government - Keller Barn	119164	LAG480356	Bayou Lacombe	Yes	140	0.0000061	175	0.0000077	10	5	20%	23.00	0.02	0.01	0.00	21.50	0.01	0.01	0.00	**0.03**	**0.02**	**0.05**	**0.01**	**0.01**
St Tammany Speedway	120304	LAG531589	Bayou Lacombe	Yes	2,400	0.0001052	3,000	0.0001314	45	15	20%	103.50	1.18	0.94	0.24	64.50	0.73	0.59	0.15	**1.91**	**1.53**	**3.36**	**0.38**	**0.84**
St Tammany Parish Fire District # 3 - St Tammany Fire Station # 33	122894	LAG531702	Bayou Lacombe	Yes	40	0.0000018	50	0.0000022	45	15	20%	103.50	0.02	0.02	0.00	64.50	0.01	0.01	0.00	**0.03**	**0.03**	**0.06**	**0.01**	**0.01**
Lacombe Stores LLC	128325	LAG531876	Bayou Lacombe	Yes	720	0.0000315	900	0.0000394	30	15	20%	69.00	0.24	0.19	0.05	64.50	0.22	0.18	0.04	**0.45**	**0.36**	**0.80**	**0.09**	**0.20**
Animal Services Campus - St. Tammany Parish Government	138040	LAG532078	Bayou Lacombe	Yes	4,000	0.0001753	5,000	0.0002191	30	15	20%	69.00	1.31	1.04	0.26	64.50	1.22	0.98	0.24	**2.53**	**2.02**	**4.46**	**0.51**	**1.11**
H&M Metal Express LLC - Patten's Metal Express	149786	LAG532240	Bayou Lacombe	Yes	40	0.0000018	50	0.0000022	45	15	20%	103.50	0.02	0.02	0.00	64.50	0.01	0.01	0.00	**0.03**	**0.03**	**0.06**	**0.01**	**0.01**
Journey Fellowship Church Inc	151676	LAG541687	Bayou Lacombe	Yes	7,500	0.0003286	9,375	0.0004107	30	15	20%	69.00	2.45	1.96	0.49	64.50	2.29	1.83	0.46	**4.74**	**3.79**	**8.36**	**0.95**	**2.09**
Axonic, LLC, Neurology Clinic	155402	LAG532735	Bayou Lacombe	Yes	1,000	0.0000438	1,250	0.0000548	45	15	20%	103.50	0.49	0.39	0.10	64.50	0.31	0.24	0.06	**0.79**	**0.64**	**1.40**	**0.16**	**0.35**
Carmelite Spirituality Center - Sisters of Mt Carmel	157591	LAG532869	Bayou Lacombe	Yes	500	0.0000219	625	0.0000274	10	5	20%	23.00	0.05	0.04	0.01	21.50	0.05	0.04	0.01	**0.11**	**0.08**	**0.19**	**0.02**	**0.05**
SUB-TOTAL Loads													**11.60**	**9.28**	**2.32**		**8.92**	**7.14**	**1.78**	**20.52**	**16.42**	**36.19**	**4.10**	**9.05**

Summer TMDL calculations and Projection model calculations for Headwater / Tributary loads:

Bayou Lacombe Subsegment 040901

Shaded cells are input values for calculations.	MARGIN OF SAFETY (MOS) (%) =	20%
Values to be used in the projection models.	If modeling the nitrogen series, be sure that columns "	

Headwater / Tributary Load Determinations

	FROM CALIBRATION					BACKGROUND VALUES						Reduced Background Loads		Reduced Man-Made Loads		PROJECTION VALUES					
Headwater / Tributary Description and Reach #	Seasonal Critical flow (cms)	UCBOD1 (mg O_2/L)	Total UCBOD (mg O_2/L)	UNBOD (mg O_2/L)	Total UNBOD (mg O_2/L)	Background UCBOD1 conc. (mg O_2/L)	Background UCBOD conc. (mg O_2/L)	Background UNBOD conc. (mg O_2/L)	Background UNBOD conc. (mg O_2/L)	Background % Reduction	Percent reduction of Man-Made loads	Reduced Background UCBOD1 load (kg O_2/day)	Total reduced Background UCBOD load (kg O_2/day)	Reduced UCBOD load (kg O_2/day)	Reduced UNBOD load (kg O_2/day)	Projection UCBOD1 input conc. (mg O_2/L)	Projection UNBOD input conc. (mg O_2/L)	**Total MOS (kg O_2/day)**	**Total CBOD1 LA (kg O_2/day)**	**Total CBOD LA (kg O_2/day)**	**Total NBOD LA (kg O_2/day)**
BAYOU LACOMBE, Reach 1	0.09200	1.53	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0.00	0.00	12.16	0.00	1.913	0.000	**3.04**	**12.16**	**12.16**	**0.00**
Ditch #1 Hwy 36 BL, Reach 2	0.00028	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	0%	0.00	0.00	0.05	0.02	2.750	1.250	**0.02**	**0.05**	**0.05**	**0.02**
Ditch #2 SNG ditch, Reach 6	0.00028	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	0%	0.00	0.00	0.05	0.02	2.750	1.250	**0.02**	**0.05**	**0.05**	**0.02**
Ditch #3 Hwy 434/I-12 BL, Reach 8	0.00028	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	0%	0.00	0.00	0.05	0.02	2.750	1.250	**0.02**	**0.05**	**0.05**	**0.02**
Ditch #4 Keller Barn, Reach 11	0.00028	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	70%	0.00	0.00	0.02	0.01	0.825	0.375	**0.01**	**0.02**	**0.02**	**0.01**
Ditch #5 Beau Village, Reach 13	0.00028	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	70%	0.00	0.00	0.02	0.01	0.825	0.375	**0.01**	**0.02**	**0.02**	**0.01**
Unnamed Tributary	0.00439	3.89	3.89	0.14	0.14	0.00	0.00	0.00	0.00	0%	0%	0.00	0.00	1.47	0.05	4.859	0.171	**0.38**	**1.47**	**1.47**	**0.05**
SUB-TOTAL TMDL LOADING												**0.00**	**0.00**	**13.83**	**0.14**			**3.49**	**13.83**	**13.83**	**0.14**

Summer TMDL calculations and Projection model calculations for Incremental loads:

Bayou Lacombe Subsegment 040901

Shaded cells are input values for calculations.	If modeling the nitrogen series, be sure that columns "H" & "	
Values to be used in the projection models.	MARGIN OF SAFETY (MOS) (%) =	**20%**

Incremental Load Determinations:

	Calibration Load Determinations					Background Loading Concentrations				Reduced Background Loads			Reduced Man-Made Loads				ection Model Input determinati					
Reach Description and #	Projection Flow (cms)	Calb. UCBOD1 conc. (mg O_2/L)	Calb. Total UCBOD conc. (mg O_2/L)	Calb. UNBOD conc. (mg O_2/L)	Calb. Total UNBOD conc. (mg O_2/L)	Background Conc. UCBOD1 (mg O_2/L)	Background Conc. Total UCBOD (mg O_2/L)	Background UNBOD (mg O_2/L)	Background Conc. Total UNBOD (mg O_2/L)	Reduced Background UCBOD1 (kg O_2/day)	Reduced Background Total UCBOD (kg O_2/day)	Reduced Background UNBOD (kg O_2/day)	Actual % Reduction of Man-Made Loads	Reduced UCBOD1 Load (kg O_2/day)	Reduced Total UCBOD Load (kg O_2/day)	Reduced UNBOD Load (kg O_2/day)	Projection UCBOD1 conc. (mg O_2/L)	Projection UNBOD conc. (mg O_2/L)	**Total MOS (kg O_2/day)**	**Total CBOD1 LA (kg O_2/day)**	**Total CBOD LA (kg O_2/day)**	**Total NBOD LA (kg O_2/day)**
1, BL01 TO Hwy 36 Ditch BL	0.17996	1.53	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	23.79	23.79	0.00	1.91	0.00	5.95	23.79	23.79	0.00
4, BL02 to BL03	0.04188	1.32	1.32	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	4.77	4.77	0.08	1.65	0.03	1.21	4.77	4.77	0.08
5, BL03 to SNG Ditch	0.04326	2.39	2.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	8.94	8.94	1.45	2.99	0.49	2.60	8.94	8.94	1.45
Sub-Total benthic loading										**0.00**	**0.00**	**0.00**		**37.50**	**37.50**	**1.53**			**9.76**	**37.50**	**37.50**	**1.53**

DRAFT Bayou Lacombe Watershed TMDL
Subsegments 040901 and 040902
Originated: October 12, 2011

Summer Projection, Non-Point Benthic Load Input and TMDL Calculations:

Modeled water body: **Bayou Lacombe Subsegment 040902**

Shaded cells are input values for calculations. MARGIN OF SAFETY (MOS) (%) = [MOG + MOU] = **20%**
Values to be used in the projection models. Note: Margin of Safety applies only to Man-Made loads, not Backgr

	Calibration Model Values																		Reduced Man-Made Loads						Projected Model Loads					
Reach Number and Description	Non-Point UCBOD1	Total Non-Point UCBOD	Total Non-Point UNBOD	SOD @ 20°C	Total Calb. Benthic Load (TCBL)	Reach Length	Proj. Model Avg. Reach Width	Proj. Temp.	Background Benthic Load	Effective Background Benthic Load	Man-Made Benthic Load	Effective Background Benthic Phosphorus	Man-Made Benthic Phosphorus	Background percentage reduction	Percentage Reduction of man-made sources	Reduced Background Benthic Load	Reduced Man-Made Benthic Load	Reduced TCBL adjusted for MOS	Reduced UCBOD1 Load	Reduced UCBOD2 Load	Reduced Total UCBOD Load	Reduced UNBOD Load	Reduced SOD Load at Projection Temp.	SOD @ 20°C	Non-Point UCBOD1 INPUTS	Non-Point UNBOD INPUTS	**Total MOS at Projection Temp.**	**Non-Point UCBOD1 LA**	**Non-Point UNBOD LA**	**SOD LA at Projection Temp.**
	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	Kilo-meters	Meters	(deg Celsius)	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g / [(m2)(day)]	g / [(m2)(day)]	%	%	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day	g O_2 / [(m^2)(day)]	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day
16, Hwy 190 Ditch BL	0.016	0.016	0.005	0.50	0.520	2.20	1.000	28.4	0.00	0.00	0.52	0.00	0.00	0%	40%	0.00	0.31	0.39	0.02	0.00	0.02	0.01	1.12	0.375	0.026	0.008	0.29	0.02	0.01	1.12
17, Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.000	0.000	0.000	3.00	3.000	0.10	25.300	28.4	0.00	0.00	3.00	0.00	0.00	0%	40%	0.00	1.80	2.25	0.00	0.00	0.00	0.00	7.73	2.250	0.000	0.000	1.93	0.00	0.00	7.73
18, Hwy 434/190 Ditch BL	0.016	0.016	0.005	0.50	0.520	2.20	1.000	28.4	0.00	0.00	0.52	0.00	0.00	0%	40%	0.00	0.31	0.39	0.02	0.00	0.02	0.01	1.12	0.375	0.026	0.008	0.29	0.02	0.01	1.12
19, Hwy 434/190 Ditch BL to BL06	0.000	0.000	0.000	3.00	3.000	0.10	25.300	30.8	0.00	0.00	3.00	0.00	0.00	0%	40%	0.00	1.80	2.25	0.00	0.00	0.00	0.00	8.99	2.250	0.000	0.000	2.25	0.00	0.00	8.99
20, BL06 to confluence with BBB	1.616	1.616	0.000	3.50	5.116	2.10	44.200	30.8	0.00	0.00	5.12	0.00	0.00	0%	40%	0.00	3.07	3.84	90.00	0.00	90.00	0.00	384.80	2.625	112.500	0.000	118.70	90.00	0.00	384.80
21, BB03 to Hwy 434/I-12 ditch BBB	0.000	0.000	0.000	2.00	2.000	0.10	3.660	28.4	0.00	0.00	2.00	0.00	0.00	0%	80%	0.00	0.40	0.50	0.00	0.00	0.00	0.00	0.25	0.500	0.000	0.000	0.06	0.00	0.00	0.25
22, Hwy 434/I-12 Ditch BBB	0.015	0.015	0.004	0.50	0.520	6.50	1.000	28.4	0.00	0.00	0.52	0.00	0.00	0%	80%	0.00	0.10	0.13	0.02	0.00	0.02	0.01	1.10	0.125	0.025	0.007	0.28	0.02	0.01	1.10
23, Hwy 434/I-12 Ditch BBB to Folger Ditch	0.000	0.000	0.000	2.00	2.000	0.20	3.660	28.4	0.00	0.00	2.00	0.00	0.00	0%	80%	0.00	0.40	0.50	0.00	0.00	0.00	0.00	0.50	0.500	0.000	0.000	0.12	0.00	0.00	0.50
24, Folger Ditch	0.013	0.013	0.005	0.50	0.518	0.40	1.000	28.4	0.00	0.00	0.52	0.00	0.00	0%	80%	0.00	0.10	0.13	0.00	0.00	0.00	0.00	0.07	0.125	0.001	0.001	0.02	0.00	0.00	0.07
25, Folger Ditch to BB02	2.355	2.355	0.000	6.00	8.355	2.90	3.660	28.4	0.00	0.00	8.36	0.00	0.00	0%	80%	0.00	1.67	2.09	5.00	0.00	5.00	0.00	21.62	1.500	6.250	0.000	6.65	5.00	0.00	21.62
26, BB02 to Berry Todd Rd Ditch	0.000	0.000	0.000	7.00	7.000	0.10	15.240	28.4	0.00	0.00	7.00	0.00	0.00	0%	80%	0.00	1.40	1.75	0.00	0.00	0.00	0.00	3.62	1.750	0.000	0.000	0.91	0.00	0.00	3.62
27, Berry Todd Rd Ditch	0.017	0.017	0.005	0.50	0.521	2.00	1.000	28.4	0.00	0.00	0.52	0.00	0.00	0%	80%	0.00	0.10	0.13	0.01	0.00	0.01	0.00	0.34	0.125	0.008	0.002	0.09	0.01	0.00	0.34
28, Berry Todd Rd Ditch to Hwy 190 Ditch BBB	2.088	2.088	0.000	7.00	9.088	1.10	15.240	28.4	0.00	0.00	9.09	0.00	0.00	0%	80%	0.00	1.82	2.27	7.00	0.00	7.00	0.00	39.83	1.750	8.750	0.000	11.71	7.00	0.00	39.83
29, Hwy 190 Ditch BBB	0.015	0.015	0.005	0.50	0.520	1.30	1.000	28.4	0.00	0.00	0.52	0.00	0.00	0%	80%	0.00	0.10	0.13	0.00	0.00	0.00	0.00	0.22	0.125	0.005	0.002	0.06	0.00	0.00	0.22
30, Hwy 190 Ditch BBB to BB01	4.593	4.593	0.000	7.00	11.593	0.50	15.240	30.8	0.00	0.00	11.59	0.00	0.00	0%	80%	0.00	2.32	2.90	7.00	0.00	7.00	0.00	21.06	1.750	8.750	0.000	7.02	7.00	0.00	21.06
31, BB01 to Confluence With Bayou Lacombe	32.812	32.812	16.827	7.00	56.638	0.30	39.620	30.8	0.00	0.00	56.64	0.00	0.00	0%	80%	0.00	11.33	14.16	78.00	0.00	78.00	40.00	32.85	1.750	97.500	50.000	37.71	78.00	40.00	32.85
32, Big Branch Bayou to BL07	0.000	0.000	0.000	3.50	3.500	0.10	82.300	30.8	0.00	0.00	3.50	0.00	0.00	0%	0%	0.00	3.50	4.38	0.00	0.00	0.00	0.00	56.86	4.375	0.000	0.000	14.22	0.00	0.00	56.86
33, BL07 to confluence w/ Cypress Bayou	1.013	1.013	0.000	1.00	2.013	2.40	82.300	30.8	0.00	0.00	2.01	0.00	0.00	0%	0%	0.00	2.01	2.52	200.00	0.00	200.00	0.00	389.93	1.250	250.000	0.000	147.48	200.00	0.00	389.93
34, CB03 to Hwy 190 ditch CB	0.000	0.000	0.000	6.00	6.000	0.30	4.690	30.8	0.00	0.00	6.00	0.00	0.00	0%	80%	0.00	1.20	1.50	0.00	0.00	0.00	0.00	3.33	1.500	0.000	0.000	0.83	0.00	0.00	3.33
35, Hwy 190 Ditch CB	0.016	0.016	0.004	0.50	0.520	1.60	1.000	30.8	0.00	0.00	0.52	0.00	0.00	0%	80%	0.00	0.10	0.13	0.01	0.00	0.01	0.00	0.32	0.125	0.006	0.002	0.08	0.01	0.00	0.32
36, Hwy 190 Ditch CB to CB02	8.153	8.153	0.000	6.00	14.153	1.70	4.690	30.8	0.00	0.00	14.15	0.00	0.00	0%	80%	0.00	2.83	3.54	13.00	0.00	13.00	0.00	18.89	1.500	16.250	0.000	7.97	13.00	0.00	18.89
37, CB02 to CB01	3.963	3.963	0.000	6.00	9.963	2.70	14.020	30.8	0.00	0.00	9.96	0.00	0.00	0%	80%	0.00	1.99	2.49	30.00	0.00	30.00	0.00	89.67	1.500	37.500	0.000	29.92	30.00	0.00	89.67
38, CB01 to confluence w/ Bayou Lacombe	7.070	7.070	0.000	0.00	7.070	0.20	35.360	30.8	0.00	0.00	7.07	0.00	0.00	0%	80%	0.00	1.41	1.77	10.00	0.00	10.00	0.00	0.00	0.000	12.500	0.000	2.50	10.00	0.00	0.00
39, Cypress Bayou to BL08	0.000	0.000	0.000	1.00	1.000	0.20	74.680	30.8	0.00	0.00	1.00	0.00	0.00	0%	0%	0.00	1.00	1.25	0.00	0.00	0.00	0.00	29.49	1.250	0.000	0.000	7.37	0.00	0.00	29.49
40, BL08 to BL09	3.463	3.463	1.154	1.50	6.117	5.80	74.680	30.8	0.00	0.00	6.12	0.00	0.00	0%	10%	0.00	5.51	6.88	1350.00	0.00	1350.00	450.00	1154.36	1.688	1687.500	562.500	738.59	1350.00	450.00	1154.36
41, BL09 to Lake Pontchartrain	6.710	6.710	0.000	0.00	6.710	0.30	99.360	30.8	0.00	0.00	6.71	0.00	0.00	0%	0%	0.00	6.71	8.39	200.00	0.00	200.00	0.00	0.00	0.000	250.000	0.000	50.00	200.00	0.00	0.00
Sub-Total										0.00	167.95	0.00	0.00			0.00	53.31	66.64	1990.08	0.00	1990.08	490.02	2268.07		2487.60	612.53	1187.04	**1990.08**	**490.02**	**2268.07**

DRAFT Bayou Lacombe Watershed TMDL
Subsegments 040901 and 040902
Originated: October 12, 2011

Summer TMDL Calculations for Point Source loads:

Bayou Lacombe Subsegment 040902

Input data into the shaded cells.

Point Source Loading Calculations

Pt. Source / Facility Description and Reach #	AI No.	Permit No.	First Named Receiving Stream	Included in the Projection Model (Yes/No)	Anticipated/ design flow (gpd)	Anticipated/ design flow (cms)	Flow with MOS (gpd)	Flow with MOS (cms)	Proposed Permit Limits			UCBOD				UNBOD				Sub-Total of Point Source BOD Loads				
									$CBOD_5$ (mg/l)	NH_3N (mg/l)	MOS (%)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	Loads (kg/day)	WLA (kg/day)	WLA (lbs/day)	Reserve/ MOS (kg/day)	Reserve/ MOS (lbs/day)
						A		A1 = A/(1-E)	B	C	E	F = 2.3 x B	G = (86.4)(A1)(F)	H = (1-E) x G	I = (E)(G)	J = 4.3 x C	K = (86.4)(A1)(J)	L = (1-E) x K	M = (D)(K)	G + K + N	H + L +O	H + L + O	I + M + P	I + M + P
Lacombe Car Care	6470	LAG531601	Bayou Lacombe	Yes	290	0.0000127	363	0.0000159	20	10	20%	46.00	0.06	0.05	0.01	43.00	0.06	0.05	0.01	**0.12**	**0.10**	**0.22**	**0.02**	**0.05**
Brier Lake Utilities Inc - Brier Lake Estates	31079	LAG570209	Cypress Bayou	Yes	40,000	0.0017525	50,000	0.0021906	5	2	20%	11.50	2.18	1.74	0.44	8.60	1.63	1.30	0.33	**3.80**	**3.04**	**6.71**	**0.76**	**1.68**
Goux Enterprises Inc - Lacombe Nursing Home	33986	LAG540330	Bayou Lacombe	Yes	9,800	0.0004294	12,250	0.0005367	20	10	20%	46.00	2.13	1.71	0.43	43.00	1.99	1.60	0.40	**4.13**	**3.30**	**7.28**	**0.83**	**1.82**
Janie Brown's Casual Restaurant	40796	LAG530691	Bayou Lacombe	Yes	1,750	0.0000767	2,188	0.0000958	20	10	20%	46.00	0.38	0.30	0.08	43.00	0.36	0.28	0.07	**0.74**	**0.59**	**1.30**	**0.15**	**0.32**
ICO Corp	41881	LAG530256	Cypress Bayou	Yes	80	0.0000035	100	0.0000044	10	2	20%	23.00	0.01	0.01	0.00	8.60	0.00	0.00	0.00	**0.01**	**0.01**	**0.02**	**0.00**	**0.01**
M&Ms Snoballs	42348	LAG530845	Bayou Lacombe	Yes	270	0.0000118	338	0.0000148	20	10	20%	46.00	0.06	0.05	0.01	43.00	0.05	0.04	0.01	**0.11**	**0.09**	**0.20**	**0.02**	**0.05**
Regina Coeli Child Development Center - Lacombe/Mandeville Head Start	43023	LAG530456	Bayou Lacombe	Yes	1,950	0.0000854	2,438	0.0001068	20	10	20%	46.00	0.42	0.34	0.08	43.00	0.40	0.32	0.08	**0.82**	**0.66**	**1.45**	**0.16**	**0.36**
Abraham Williams Apartments	43087	LAG530471	Bayou Lacombe	Yes	1,940	0.0000850	2,425	0.0001062	20	10	20%	46.00	0.42	0.34	0.08	43.00	0.39	0.32	0.08	**0.82**	**0.65**	**1.44**	**0.16**	**0.36**
Chahta Ima Elementary School	43400	LAG540698	Bayou Lacombe	Yes	7,950	0.0003483	9,938	0.0004354	20	10	20%	46.00	1.73	1.38	0.35	43.00	1.62	1.29	0.32	**3.35**	**2.68**	**5.90**	**0.67**	**1.48**
Bayou Lacombe Middle School	43406	LAG570058	Bayou Lacombe	Yes	4,600	0.0002015	5,750	0.0002519	10	5	20%	23.00	0.50	0.40	0.10	21.50	0.47	0.37	0.09	**0.97**	**0.77**	**1.71**	**0.19**	**0.43**
Russell's Quick Stop LLC	70935	LAG532035	Bayou Lacombe	Yes	1,855	0.0000813	2,319	0.0001016	20	10	20%	46.00	0.40	0.32	0.08	43.00	0.38	0.30	0.08	**0.78**	**0.62**	**1.38**	**0.16**	**0.34**
J&S Bayou Gas & Go LLC	75143	LAG532912	Bayou Lacombe	Yes	120	0.0000053	150	0.0000066	20	10	20%	46.00	0.03	0.02	0.01	43.00	0.02	0.02	0.00	**0.05**	**0.04**	**0.09**	**0.01**	**0.02**
A&L Enterprise LLC	75810	LAG532848	Bayou Lacombe	Yes	100	0.0000044	125	0.0000055	20	10	20%	46.00	0.02	0.02	0.00	43.00	0.02	0.02	0.00	**0.04**	**0.03**	**0.07**	**0.01**	**0.02**
J & S Chevron LLC	84112	LAG531082	Bayou Lacombe	Yes	3,100	0.0001358	3,875	0.0001698	20	10	20%	46.00	0.67	0.54	0.13	43.00	0.63	0.50	0.13	**1.31**	**1.04**	**2.30**	**0.26**	**0.58**
Sal & Judy's Restaurant	89241	LAG531238	Bayou Lacombe	Yes	3,630	0.0001590	4,538	0.0001988	20	10	20%	46.00	0.79	0.63	0.16	43.00	0.74	0.59	0.15	**1.53**	**1.22**	**2.70**	**0.31**	**0.67**
Southeastern Louisiana Water & Sewer Co.,LLC, Medcath WWTP, LA Medical Center & Heart Hospital	94173	LAG570479	Big Branch	Yes	60,000	0.0026288	75,000	0.0032859	5	2	20%	11.50	3.26	2.61	0.65	8.60	2.44	1.95	0.49	**5.71**	**4.57**	**10.06**	**1.14**	**2.52**
Carollo's Shopping Center	99609	LAG531547	Bayou Lacombe	Yes	4,999	0.0002190	6,249	0.0002738	20	10	20%	46.00	1.09	0.87	0.22	43.00	1.02	0.81	0.20	**2.11**	**1.68**	**3.71**	**0.42**	**0.93**
OW Inc - Bayou Mini Storage	101375	LAG531325	Big Branch	Yes	20	0.0000009	25	0.0000011	10	2	20%	23.00	0.00	0.00	0.00	8.60	0.00	0.00	0.00	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**
Folger Coffee Co - Lacombe Distribution Center	114220	LAG531459	Big Branch Bayou	Yes	4,000	0.0001753	5,000	0.0002191	10	2	20%	23.00	0.44	0.35	0.09	8.60	0.16	0.13	0.03	**0.60**	**0.48**	**1.05**	**0.12**	**0.26**
Village Church Lutheran Inc - The Village Church Lutheran	114927	LAG532765	Bayou Lacombe	Yes	2,100	0.0000920	2,625	0.0001150	20	10	20%	46.00	0.46	0.37	0.09	43.00	0.43	0.34	0.09	**0.88**	**0.71**	**1.56**	**0.18**	**0.39**
LA Pines Ranch Inc	117076	LAG531595	Cypress Bayou	Yes	4,999	0.0002190	6,249	0.0002738	10	2	20%	23.00	0.54	0.44	0.11	8.60	0.20	0.16	0.04	**0.75**	**0.60**	**1.32**	**0.15**	**0.33**
Tiller of the Land	119584	LAG531543	Cypress Bayou	Yes	100	0.0000044	125	0.0000055	10	2	20%	23.00	0.01	0.01	0.00	8.60	0.00	0.00	0.00	**0.01**	**0.01**	**0.03**	**0.00**	**0.01**
Pepes Mexican Restaurant LLC	122511	LAG531655	Bayou Lacombe	Yes	1,120	0.0000491	1,400	0.0000613	20	10	20%	46.00	0.24	0.20	0.05	43.00	0.23	0.18	0.05	**0.47**	**0.38**	**0.83**	**0.09**	**0.21**
Kevin J. Smith Construction Company - Smith Office Building	123821	LAG531695	Cypress Bayou	Yes	200	0.0000088	250	0.0000110	10	2	20%	23.00	0.02	0.02	0.00	8.60	0.01	0.01	0.00	**0.03**	**0.02**	**0.05**	**0.01**	**0.01**
A to Z Preschool LLC	127495	LAG531853	Cypress Bayou	Yes	1,700	0.0000745	2,125	0.0000931	10	2	20%	23.00	0.19	0.15	0.04	8.60	0.07	0.06	0.01	**0.25**	**0.20**	**0.45**	**0.05**	**0.11**
St. Tammany Parish Sheriff's Office - Lacombe Substation	130003	LAG531889	Bayou Lacombe	Yes	500	0.0000219	625	0.0000274	20	10	20%	46.00	0.11	0.09	0.02	43.00	0.10	0.08	0.02	**0.21**	**0.17**	**0.37**	**0.04**	**0.09**
Anna Elliot - 28105 Hwy 190 Building	142046	LAG532100	Bayou Lacombe	Yes	80	0.0000035	100	0.0000044	20	10	20%	46.00	0.02	0.01	0.00	43.00	0.02	0.01	0.00	**0.03**	**0.03**	**0.06**	**0.01**	**0.01**
Taxpayer Properties II Lacombe LLC - Family Dollar	149801	LAG532247	Bayou Lacombe	Yes	80	0.0000035	100	0.0000044	20	10	20%	46.00	0.02	0.01	0.00	43.00	0.02	0.01	0.00	**0.03**	**0.03**	**0.06**	**0.01**	**0.01**
Lloyd's Bayou Bargains	151841	LAG532286	Bayou Lacombe	Yes	180	0.0000079	225	0.0000099	20	10	20%	46.00	0.04	0.03	0.01	43.00	0.04	0.03	0.01	**0.08**	**0.06**	**0.13**	**0.02**	**0.03**
US Postal Service - Lacombe Post Office	154892	LAG532531	Bayou Lacombe	Yes	300	0.0000131	375	0.0000164	20	10	20%	46.00	0.07	0.05	0.01	43.00	0.06	0.05	0.01	**0.13**	**0.10**	**0.22**	**0.03**	**0.06**
Russell's Quick Stop LLC - Bayou Daiquiris	155069	LAG532568	Bayou Lacombe	Yes	500	0.0000219	625	0.0000274	20	10	20%	46.00	0.11	0.09	0.02	43.00	0.10	0.08	0.02	**0.21**	**0.17**	**0.37**	**0.04**	**0.09**
Python Corporation - Office/Warehouse	156133	LAG532658	Big Branch	Yes	120	0.0000053	150	0.0000066	10	2	20%	23.00	0.01	0.01	0.00	8.60	0.00	0.00	0.00	**0.02**	**0.01**	**0.03**	**0.00**	**0.01**
H2O Systems Inc - Cypress Park Subdivision	156693	LA0123862	Cypress Bayou	Yes	120,000	0.0052575	150,000	0.0065719	5	2	20%	11.50	6.53	5.22	1.31	8.60	4.88	3.91	0.98	**11.41**	**9.13**	**20.13**	**2.28**	**5.03**
First Baptist Church of Lacombe	157435	LAG532764	Bayou Lacombe	Yes	1,170	0.0000513	1,463	0.0000641	20	10	20%	46.00	0.25	0.20	0.05	43.00	0.24	0.19	0.05	**0.49**	**0.39**	**0.87**	**0.10**	**0.22**
Feather & Fin Ranch	157509	LA0123986	Big Branch Bayou	Yes	56,000	0.0024535	70,000	0.0030669	10	2	20%	23.00	6.09	4.88	1.22	8.60	2.28	1.82	0.46	**8.37**	**6.70**	**14.77**	**1.67**	**3.69**
Vinson Guard Service Inc	157523	LAG532867	Bayou Lacombe	Yes	60	0.0000026	75	0.0000033	20	10	20%	46.00	0.01	0.01	0.00	43.00	0.01	0.01	0.00	**0.03**	**0.02**	**0.04**	**0.01**	**0.01**
Cris Tees	157670	LAG532891	Bayou Lacombe	Yes	20	0.0000009	25	0.0000011	20	10	20%	46.00	0.00	0.00	0.00	43.00	0.00	0.00	0.00	**0.01**	**0.01**	**0.01**	**0.00**	**0.00**
Convention Key Cards LLC - Key Marketing	157721	LAG532793	Bayou Lacombe	Yes	80	0.0000035	100	0.0000044	20	10	20%	46.00	0.02	0.01	0.00	43.00	0.02	0.01	0.00	**0.03**	**0.03**	**0.06**	**0.01**	**0.01**
Sacred Heart Catholic Church	157759	LAG532808	Bayou Lacombe	Yes	2,000	0.0000876	2,500	0.0001095	20	10	20%	46.00	0.44	0.35	0.09	43.00	0.41	0.33	0.08	**0.84**	**0.67**	**1.49**	**0.17**	**0.37**
St Tammany Fire Protection District 3 - Fire Station 32	157767	LAG532801	Cypress Bayou	Yes	20	0.0000009	25	0.0000011	10	2	20%	23.00	0.00	0.00	0.00	8.60	0.00	0.00	0.00	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**
St Tammany Fire Protection District 3 - Administration Office	157768	LAG532807	Bayou Lacombe	Yes	80	0.0000035	100	0.0000044	20	10	20%	46.00	0.02	0.01	0.00	43.00	0.02	0.01	0.00	**0.03**	**0.03**	**0.06**	**0.01**	**0.01**
Salvatore Impastato - New Orleans Bistro	157850	LAG532899	Bayou Lacombe	Yes	1,580	0.0000692	1,975	0.0000865	20	10	20%	46.00	0.34	0.28	0.07	43.00	0.32	0.26	0.06	**0.67**	**0.53**	**1.17**	**0.13**	**0.29**
Mottie McClary/Southern Motor Carrier Safety Consultants	157892	LAG532847	Cypress Bayou	Yes	40	0.0000018	50	0.0000022	10	2	20%	23.00	0.00	0.00	0.00	8.60	0.00	0.00	0.00	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
St Tammany Parish Government - University Square WWTP (3)	158419	LA0124451	Big Branch Bayou	Yes	600,000	0.0262876	750,000	0.0328595			20%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
John Davis Park Community Center	162031	LAG533019	Bayou Lacombe	Yes	5,000	0.0002191	6,250	0.0002738	20	10	20%	46.00	1.09	0.87	0.22	43.00	1.02	0.81	0.20	**2.11**	**1.68**	**3.71**	**0.42**	**0.93**
H2O Systems, Inc., St. Tammany Parish Coroner's Complex	165334	LAG533227	Big Branch Bayou	Yes	700	0.0000307	875	0.0000383	10	2	20%	23.00	0.08	0.06	0.02	8.60	0.03	0.02	0.01	**0.10**	**0.08**	**0.18**	**0.02**	**0.05**
SUB-TOTAL Loads													**31.32**	**25.06**	**6.26**		**22.89**	**18.31**	**4.58**	**54.21**	**43.37**	**95.61**	**10.84**	**23.90**

Summer TMDL calculations and Projection model calculations for Headwater / Tributary loads:

Bayou Lacombe Subsegment 040902

Shaded cells are input values for calculations.	MARGIN OF SAFETY (MOS) (%) =	20%
Values to be used in the projection models.	If modeling the nitrogen series, be sure that columns "	

Headwater / Tributary Load Determinations

	FROM CALIBRATION					BACKGROUND VALUES						Reduced Background Loads		Reduced Man-Made Loads		PROJECTION VALUES					
Headwater / Tributary Description and Reach #	Seasonal Critical flow (cms)	UCBOD1 (mg O_2/L)	Total UCBOD (mg O_2/L)	UNBOD (mg O_2/L)	Total UNBOD (mg O_2/L)	Background UCBOD1 conc. (mg O_2/L)	Background UCBOD conc. (mg O_2/L)	Background UNBOD conc. (mg O_2/L)	Background UNBOD conc. (mg O_2/L)	Background % Reduction	Percent reduction of Man-Made loads	Reduced Background UCBOD1 load (kg O_2/day)	Total reduced Background UCBOD load (kg O_2/day)	Reduced UCBOD load (kg O_2/day)	Reduced UNBOD load (kg O_2/day)	Projection UCBOD1 input conc. (mg O_2/L)	Projection UNBOD input conc. (mg O_2/L)	**Total MOS (kg O_2/day)**	**Total CBOD1 LA (kg O_2/day)**	**Total CBOD LA (kg O_2/day)**	**Total NBOD LA (kg O_2/day)**
Ditch #6 Hwy 190 BL, Reach 16	0.00028	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	40%	0.00	0.00	0.03	0.01	1.650	0.750	**0.01**	**0.03**	**0.03**	**0.01**
Ditch #7 Hwy 434/190 BL, Reach 18	0.00028	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	40%	0.00	0.00	0.03	0.01	1.650	0.750	**0.01**	**0.03**	**0.03**	**0.01**
Big Branch Bayou, Reach 21	0.00900	2.68	2.68	0.05	0.05	0.00	0.00	0.00	0.00	0%	80%	0.00	0.00	0.42	0.01	0.671	0.012	**0.11**	**0.42**	**0.42**	**0.01**
Ditch #8 Hwy 434/I-12 BBB, Reach 22	0.00028	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	80%	0.00	0.00	0.01	0.00	0.550	0.250	**0.00**	**0.01**	**0.01**	**0.00**
Ditch #9 Folger, Reach 24	0.00028	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	80%	0.00	0.00	0.01	0.00	0.550	0.250	**0.00**	**0.01**	**0.01**	**0.00**
Ditch A Berry Todd Rd, Reach 27	0.00028	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	80%	0.00	0.00	0.01	0.00	0.550	0.250	**0.00**	**0.01**	**0.01**	**0.00**
Ditch B Hwy 190 BBB, Reach 29	0.00028	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	80%	0.00	0.00	0.01	0.00	0.550	0.250	**0.00**	**0.01**	**0.01**	**0.00**
Cypress Bayou, Reach 34	0.02300	16.39	16.39	2.55	2.55	0.00	0.00	0.00	0.00	0%	80%	0.00	0.00	6.51	1.01	4.096	0.638	**1.88**	**6.51**	**6.51**	**1.01**
Ditch C Hwy 190 CB, Reach 35	0.00028	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	80%	0.00	0.00	0.01	0.00	0.550	0.250	**0.00**	**0.01**	**0.01**	**0.00**
SUB-TOTAL TMDL LOADING												**0.00**	**0.00**	**7.05**	**1.08**			**2.03**	**7.05**	**7.05**	**1.08**

Summer TMDL calculations and Projection model calculations for Incremental loads:

Bayou Lacombe Subsegment 040902

Shaded cells are input values for calculations.	If modeling the nitrogen series, be sure that columns "H" & "	
Values to be used in the projection models.	MARGIN OF SAFETY (MOS) (%) =	20%

Incremental Load Determinations:

Calibration Load Determinations						Background Loading Concentrations					Reduced Background Loads			Reduced Man-Made Loads				ection Model Input determinati					
Reach Description and #	Projection Flow (cms)	Calb. UCBOD1 conc. (mg O_2/L)	Calb. Total UCBOD conc. (mg O_2/L)	Calb. UNBOD conc. (mg O_2/L)	Calb. Total UNBOD conc. (mg O_2/L)	Background Conc. UCBOD1 (mg O_2/L)	Background Conc. Total UCBOD (mg O_2/L)	Background UNBOD (mg O_2/L)	Background Conc. Total UNBOD (mg O_2/L)	Background % Reduction	Reduced Background UCBOD1 (kg O_2/day)	Reduced Background Total UCBOD (kg O_2/day)	Reduced Background UNBOD (kg O_2/day)	Actual % Reduction of Man-Made Loads	Reduced UCBOD1 Load (kg O_2/day)	Reduced Total UCBOD Load (kg O_2/day)	Reduced UNBOD Load (kg O_2/day)	Projection UCBOD1 conc. (mg O_2/L)	Projection UNBOD conc. (mg O_2/L)	**Total MOS (kg O_2/day)**	**Total CBOD1 LA (kg O_2/day)**	**Total CBOD LA (kg O_2/day)**	**Total NBOD LA (kg O_2/day)**
21, BB03 to Hwy 434/I-12 ditch BBB	0.14751	2.68	2.68	0.05	0.05	0.00	0.00	0.00	0.00	0%	0.00	0.00	0.00	80%	6.84	6.84	0.12	0.67	0.01	1.74	6.84	6.84	0.12
34, CB03 to Hwy 190 ditch CB	0.18882	16.39	16.39	2.55	2.55	0.00	0.00	0.00	0.00	0%	0.00	0.00	0.00	80%	53.46	53.46	8.33	4.10	0.64	15.45	53.46	53.46	8.33
Sub-Total benthic loading											**0.00**	**0.00**	**0.00**		**60.30**	**60.30**	**8.45**			**17.19**	**60.30**	**60.30**	**8.45**

Appendix E2 – Winter Loading

Winter Projection, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body: **Bayou Lacombe Subsegment 040901**

Shaded cells are input values for calculations.
Values to be used in the projection models.

ARGIN OF SAFETY (MOS) (%) = [MOG + MOU] = **20%**

	Calibration Model Values															Reduced Man-Made Loads					Projected Model Loads							
Reach Number and Description	Non-Point UCBOD1	Total Non-Point UCBOD	Total Non-Point UNBOD	SOD @ 20°C	Total Calb. Benthic Load (TCBL)	Reach Length	Proj. Model Avg. Reach Width	Proj. Temp.	Background Benthic Load	Effective Background Benthic Load	Man-Made Benthic Load	Percentage Reduction of man-made sources	Reduced Background Benthic Load	Reduced Man-Made Benthic Load	Reduced TCBL adjusted for MOS	Reduced UCBOD1 Load	Reduced Total UCBOD Load	Reduced UNBOD Load	Reduced SOD Load at Projection Temp.	SOD @ 20°C	Non-Point UCBOD1 INPUTS	Total Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	**Total MOS at Projection Temp.**	**Non-Point UCBOD1 LA**	**Non-Point UCBOD LA**	**Non-Point UNBOD LA**	**SOD LA at Projection Temp.**
	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	Kilo-meters	Meters	(deg Celsius)	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	%	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day	g O_2 / [(m^2)(day)]	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day
1, BL01 TO Hwy 36 Ditch BL	0.000	0.000	0.000	0.00	0.000	0.10	5.790	19.60	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00
2, Hwy 36 Ditch BL	0.015	0.015	0.004	0.50	0.519	4.20	1.000	19.60	0.00	0.00	0.52	0%	0.00	0.52	0.65	0.06	0.06	0.02	2.05	0.625	0.079	0.079	0.021	0.53	0.06	0.06	0.02	2.05
3, Hwy 36 Ditch BL to BL02	0.000	0.000	0.000	0.25	0.250	5.70	5.790	19.60	0.00	0.00	0.25	0%	0.00	0.25	0.31	0.00	0.00	0.00	8.05	0.313	0.000	0.000	0.000	2.01	0.00	0.00	0.00	8.05
4, BL02 to BL03	0.836	0.836	0.167	0.25	1.254	4.90	6.100	19.60	0.00	0.00	1.25	0%	0.00	1.25	1.57	25.00	25.00	5.00	7.29	0.313	31.250	31.250	6.250	9.32	25.00	25.00	5.00	7.29
5, BL03 to SNG Ditch	0.000	0.000	0.000	1.75	1.750	0.90	7.160	19.60	0.00	0.00	1.75	0%	0.00	1.75	2.19	0.00	0.00	0.00	11.00	2.188	0.000	0.000	0.000	2.75	0.00	0.00	0.00	11.00
6, SNG Ditch	0.015	0.015	0.004	0.50	0.520	2.10	1.000	19.60	0.00	0.00	0.52	0%	0.00	0.52	0.65	0.03	0.03	0.01	1.02	0.625	0.040	0.040	0.011	0.27	0.03	0.03	0.01	1.02
7, SNG Ditch to Hwy 434/I-12 Ditch BL	0.000	0.000	0.000	1.75	1.750	0.30	7.160	19.60	0.00	0.00	1.75	0%	0.00	1.75	2.19	0.00	0.00	0.00	3.67	2.188	0.000	0.000	0.000	0.92	0.00	0.00	0.00	3.67
8, Hwy 434/I-12 Ditch BL	0.015	0.015	0.004	0.50	0.520	3.00	1.000	19.60	0.00	0.00	0.52	0%	0.00	0.52	0.65	0.05	0.05	0.01	1.46	0.625	0.058	0.058	0.016	0.38	0.05	0.05	0.01	1.46
9, Hwy 434/I-12 Ditch BL to BL04	0.000	0.000	0.000	1.75	1.750	0.20	7.160	19.60	0.00	0.00	1.75	0%	0.00	1.75	2.19	0.00	0.00	0.00	2.44	2.188	0.000	0.000	0.000	0.61	0.00	0.00	0.00	2.44
10, BL04 to Keller Barn Ditch	3.360	3.360	1.747	4.50	9.608	1.60	9.300	19.60	0.00	0.00	9.61	70%	0.00	2.88	3.60	15.00	15.00	7.80	19.59	1.688	18.750	18.750	9.750	10.60	15.00	15.00	7.80	19.59
11, Keller Barn Ditch	0.016	0.016	0.004	0.50	0.520	0.90	1.000	19.60	0.00	0.00	0.52	70%	0.00	0.16	0.20	0.00	0.00	0.00	0.13	0.188	0.005	0.005	0.002	0.03	0.00	0.00	0.00	0.13
12, Keller Barn Ditch To Beau Village Ditch	3.385	3.385	1.035	4.50	8.921	2.70	9.300	19.60	0.00	0.00	8.92	70%	0.00	2.68	3.35	25.50	25.50	7.80	33.06	1.688	31.875	31.875	9.750	16.59	25.50	25.50	7.80	33.06
13, Beau Village Ditch	0.016	0.016	0.004	0.50	0.520	3.00	1.000	19.60	0.00	0.00	0.52	70%	0.00	0.16	0.20	0.01	0.01	0.00	0.44	0.188	0.018	0.018	0.005	0.11	0.01	0.01	0.00	0.44
14, Beau Village Ditch to BL05	3.840	3.840	1.997	4.50	10.337	1.40	9.300	19.60	0.00	0.00	10.34	70%	0.00	3.10	3.88	15.00	15.00	7.80	17.14	1.688	18.750	18.750	9.750	9.98	15.00	15.00	7.80	17.14
15, BL05 to Hwy 190 Ditch BL	4.705	4.705	1.694	3.00	9.399	2.10	25.300	19.60	0.00	0.00	9.40	70%	0.00	2.82	3.52	75.00	75.00	27.00	46.63	1.125	93.750	93.750	33.750	37.16	75.00	75.00	27.00	46.63

Winter TMDL Calculations for Point Source loads:

Bayou Lacombe Subsegment 040901

Input data into the shaded cells.

Point Source Loading Calculations

Pt. Source / Facility Description and Reach #	AI No.	Permit No.	First Named Receiving Stream	Included in the Projection Model (Yes/No)	Anticipated/ design flow (gpd)	Anticipated/ design flow (cms)	Flow with MOS (gpd)	Flow with MOS (cms)	Proposed Permit Limits			UCBOD				UNBOD				Sub-Total of Point Source BOD Loads				
									$CBOD_5$ (mg/l)	NH_3N (mg/l)	MOS (%)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	**Loads (kg/day)**	**WLA (kg/day)**	**WLA (lbs/day)**	**Reserve/ MOS (kg/day)**	**Reserve/ MOS (lbs/day)**
						A		**A1 = A/(1-E)**	**B**	**C**	**E**	**F = 2.3 x B**	**G = (86.4)(A1)(F)**	**H = (1-E) x G**	**I = (E)(G)**	**J = 4.3 x C**	**K = (86.4)(A1)(J)**	**L = (1-E) x K**	**M = (D)(K)**	**G + K + N**	**H + L +O**	**H + L + O**	**I + M + P**	**I + M + P**
WTSO Utilities, Beau Village Subdivision	33916	LAG570118	Bayou Lacombe	Yes	24,000	0.00105	30,000	0.00131	5	2	20%	11.50	1.31	1.04	0.26	8.60	0.98	0.78	0.20	**2.28**	**1.83**	**4.03**	**0.46**	**1.01**
Frito-Lay Inc	41574	LAG530665	Bayou Lacombe	Yes	300	0.00001	375	0.00002	45	15	20%	103.50	0.15	0.12	0.03	64.50	0.09	0.07	0.02	**0.24**	**0.19**	**0.42**	**0.05**	**0.11**
Central Progressive Bank - Operations Center	43188	LAG530822	Bayou Lacombe	Yes	2,499	0.00011	3,124	0.00014	45	15	20%	103.50	1.22	0.98	0.24	64.50	0.76	0.61	0.15	**1.99**	**1.59**	**3.50**	**0.40**	**0.88**
Pavestone Co.	52076	LAG480263	Bayou Lacombe	Yes	2,239	0.00010	2,799	0.00012	30	15	20%	69.00	0.73	0.58	0.15	64.50	0.68	0.55	0.14	**1.41**	**1.13**	**2.49**	**0.28**	**0.62**
Coast Concrete Service Inc	86020	LAG531123	Bayou Lacombe	Yes	200	0.00001	250	0.00001	45	15	20%	103.50	0.10	0.08	0.02	64.50	0.06	0.05	0.01	**0.16**	**0.13**	**0.28**	**0.03**	**0.07**
US Fish & Wildlife Service - Southeast Louisiana Refuges	93344	LAG531332	Bayou Lacombe	Yes	1,120	0.00005	1,400	0.00006	10	5	20%	23.00	0.12	0.10	0.02	21.50	0.11	0.09	0.02	**0.24**	**0.19**	**0.42**	**0.05**	**0.10**
North Shore Unitarian Universalist Society Church	94618	LAG531308	Bayou Lacombe	Yes	850	0.00004	1,063	0.00005	45	15	20%	103.50	0.42	0.33	0.08	64.50	0.26	0.21	0.05	**0.68**	**0.54**	**1.19**	**0.14**	**0.30**
Southern Natural Gas Co - Lacombe Compressor Station	94746	LAG531415	Bayou Lacombe	Yes	2,499	0.00011	3,124	0.00014	45	15	20%	103.50	1.22	0.98	0.24	64.50	0.76	0.61	0.15	**1.99**	**1.59**	**3.50**	**0.40**	**0.88**
Central Progressive Bank - Krentel Road Office/Warehouse Complex	102362	LAG531352	Bayou Lacombe	Yes	600	0.00003	750	0.00003	45	15	20%	103.50	0.29	0.24	0.06	64.50	0.18	0.15	0.04	**0.48**	**0.38**	**0.84**	**0.10**	**0.21**
Krentel Road Office Building	116987	LAG531504	Bayou Lacombe	Yes	60	0.00000	75	0.00000	45	15	20%	103.50	0.03	0.02	0.01	64.50	0.02	0.01	0.00	**0.05**	**0.04**	**0.08**	**0.01**	**0.02**
Lacombe Land LLC - The North Institute Project	118350	LAG531823	Bayou Lacombe	Yes	500	0.00002	625	0.00003	45	15	20%	103.50	0.24	0.20	0.05	64.50	0.15	0.12	0.03	**0.40**	**0.32**	**0.70**	**0.08**	**0.18**
St Tammany Parish Government - Keller Barn	119164	LAG480356	Bayou Lacombe	Yes	140	0.00001	175	0.00001	10	5	20%	23.00	0.02	0.01	0.00	21.50	0.01	0.01	0.00	**0.03**	**0.02**	**0.05**	**0.01**	**0.01**
St Tammany Speedway	120304	LAG531589	Bayou Lacombe	Yes	2,400	0.00011	3,000	0.00013	45	15	20%	103.50	1.18	0.94	0.24	64.50	0.73	0.59	0.15	**1.91**	**1.53**	**3.36**	**0.38**	**0.84**
St Tammany Parish Fire District # 3 - St Tammany Fire Station # 33	122894	LAG531702	Bayou Lacombe	Yes	40	0.00000	50	0.00000	45	15	20%	103.50	0.02	0.02	0.00	64.50	0.01	0.01	0.00	**0.03**	**0.03**	**0.06**	**0.01**	**0.01**
Lacombe Stores LLC	128325	LAG531876	Bayou Lacombe	Yes	720	0.00003	900	0.00004	30	15	20%	69.00	0.24	0.19	0.05	64.50	0.22	0.18	0.04	**0.45**	**0.36**	**0.80**	**0.09**	**0.20**
Animal Services Campus - St. Tammany Parish Government	138040	LAG532078	Bayou Lacombe	Yes	4,000	0.00018	5,000	0.00022	30	15	20%	69.00	1.31	1.04	0.26	64.50	1.22	0.98	0.24	**2.53**	**2.02**	**4.46**	**0.51**	**1.11**
H&M Metal Express LLC - Patten's Metal Express	149786	LAG532240	Bayou Lacombe	Yes	40	0.00000	50	0.00000	45	15	20%	103.50	0.02	0.02	0.00	64.50	0.01	0.01	0.00	**0.03**	**0.03**	**0.06**	**0.01**	**0.01**
Journey Fellowship Church Inc	151676	LAG541687	Bayou Lacombe	Yes	7,500	0.00033	9,375	0.00041	30	15	20%	69.00	2.45	1.96	0.49	64.50	2.29	1.83	0.46	**4.74**	**3.79**	**8.36**	**0.95**	**2.09**
Axonic, LLC, Neurology Clinic	155402	LAG532735	Bayou Lacombe	Yes	1,000	0.00004	1,250	0.00005	45	15	20%	103.50	0.49	0.39	0.10	64.50	0.31	0.24	0.06	**0.79**	**0.64**	**1.40**	**0.16**	**0.35**
Carmelite Spirituality Center - Sisters of Mt Carmel	157591	LAG532869	Bayou Lacombe	Yes	500	0.00002	625	0.00003	10	5	20%	23.00	0.05	0.04	0.01	21.50	0.05	0.04	0.01	**0.11**	**0.08**	**0.19**	**0.02**	**0.05**
SUB-TOTAL Loads													**11.60**	**9.28**	**2.32**		**8.92**	**7.14**	**1.78**	**20.52**	**16.42**	**36.19**	**4.10**	**9.05**

Winter TMDL calculations and Projection model calculations for Headwater / Tributary loads:

Bayou Lacombe Subsegment 040901

Shaded cells are input values for calculations.	MARGIN OF SAFETY (MOS) (%) =	20%
Values to be used in the projection models.	If modeling the nitrogen series, be sure that columns *	

Headwater / Tributary Load Determinations

	FROM CALIBRATION					BACKGROUND VALUES						Reduced Background Loads			Reduced Man-Made Loads			PROJECTION VALUES						
Headwater / Tributary Description and Reach #	Seasonal Critical flow (cms)	UCBOD1 (mg O_2/L)	Total UCBOD (mg O_2/L)	UNBOD (mg O_2/L)	Total UNBOD (mg O_2/L)	Background UCBOD1 conc. (mg O_2/L)	Background UCBOD conc. (mg O_2/L)	Background UNBOD conc. (mg O_2/L)	Background UNBOD conc. (mg O_2/L)	Background % Reduction	Percent reduction of Man-Made loads	Reduced Background UCBOD1 load (kg O_2/day)	Total reduced Background UCBOD load (kg O_2/day)	Reduced Background UNBOD load (kg O_2/day)	Reduced UCBOD1 load (kg O_2/day)	Reduced UCBOD load (kg O_2/day)	Reduced UNBOD load (kg O_2/day)	Projection UCBOD1 input conc. (mg O_2/L)	Projection UCBOD input conc. (mg O_2/L)	Projection UNBOD input conc. (mg O_2/L)	**Total MOS (kg O_2/day)**	**Total CBOD1 LA (kg O_2/day)**	**Total CBOD LA (kg O_2/day)**	**Total NBOD LA (kg O_2/day)**
BAYOU LACOMBE, Reach 1	0.09200	1.53	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0.00	0.00	0.00	12.16	12.16	0.00	1.913	1.913	0.000	**3.04**	**12.16**	**12.16**	**0.00**
Ditch #1 Hwy 36 BL, Reach 2	0.00280	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	0%	0.00	0.00	0.00	0.53	0.53	0.24	2.750	2.750	1.250	**0.19**	**0.53**	**0.53**	**0.24**
Ditch #2 SNG ditch, Reach 6	0.00280	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	0%	0.00	0.00	0.00	0.53	0.53	0.24	2.750	2.750	1.250	**0.19**	**0.53**	**0.53**	**0.24**
Ditch #3 Hwy 434/I-12 BL, Reach 8	0.00280	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	0%	0.00	0.00	0.00	0.53	0.53	0.24	2.750	2.750	1.250	**0.19**	**0.53**	**0.53**	**0.24**
Ditch #4 Keller Barn, Reach 11	0.00280	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	70%	0.00	0.00	0.00	0.16	0.16	0.07	0.825	0.825	0.375	**0.06**	**0.16**	**0.16**	**0.07**
Ditch #5 Beau Village, Reach 13	0.00280	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	70%	0.00	0.00	0.00	0.16	0.16	0.07	0.825	0.825	0.375	**0.06**	**0.16**	**0.16**	**0.07**
Unnamed Tributary	0.00439	3.89	3.89	0.14	0.14	0.00	0.00	0.00	0.00	0%	0%	0.00	0.00	0.00	1.47	1.47	0.05	4.859	4.859	0.171	**0.38**	**1.47**	**1.47**	**0.05**
SUB-TOTAL TMDL LOADING												**0.00**	**0.00**	**0.00**	**16**	**15.55**	**0.92**				**4.12**	**15.55**	**15.55**	**0.92**

Winter TMDL calculations and Projection model calculations for Incremental loads:

Bayou Lacombe Subsegment 040901

Shaded cells are input values for calculations.	If modeling the nitrogen series, be sure that columns "H" & "	
Values to be used in the projection models.	MARGIN OF SAFETY (MOS) (%) =	**20%**

Incremental Load Determinations:

Calibration Load Determinations						Background Loading Concentrations				Reduced Background Loads		Reduced Man-Made Loads			ection Model Input determinati				
Reach Description and #	Projection Flow (cms)	Calb. UCBOD1 conc. (mg O_2/L)	Calb. Total UCBOD conc. (mg O_2/L)	Calb. UNBOD conc. (mg O_2/L)	Calb. Total UNBOD conc. (mg O_2/L)	Background Conc. UCBOD1 (mg O_2/L)	Background Conc. Total UCBOD (mg O_2/L)	Background UNBOD (mg O_2/L)	Background Conc. Total UNBOD (mg O_2/L)	Reduced Background Total UCBOD (kg O_2/day)	Reduced Background UNBOD (kg O_2/day)	Actual % Reduction of Man-Made Loads	Reduced Total UCBOD Load (kg O_2/day)	Reduced UNBOD Load (kg O_2/day)	Projection Total UCBOD conc. (mg O_2/L)	Projection UNBOD conc. (mg O_2/L)	**Total MOS (kg O_2/day)**	**Total CBOD LA (kg O_2/day)**	**Total NBOD LA (kg O_2/day)**
1, BL01 TO Hwy 36 Ditch BL	0.17996	1.53	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	23.79	0.00	1.91	0.00	5.95	23.79	0.00
4, BL02 to BL03	0.04188	1.32	1.32	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0%	4.77	0.08	1.65	0.03	1.21	4.77	0.08
5, BL03 to SNG Ditch	0.04326	2.39	2.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0%	8.94	1.45	2.99	0.49	2.60	8.94	1.45
Sub-Total benthic loading										**0.00**	**0.00**		**37.50**	**1.53**			**9.76**	**37.50**	**1.53**

Winter Projection, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body: **Bayou Lacombe Subsegment 040902**

Shaded cells are input values for calculaARGIN OF SAFETY (MOS) (%) = [MOG + MOU] = **20%**
Values to be used in the projection models.

	Calibration Model Values															Reduced Man-Made Loads				Projected Model Loads					
Reach Number and Description	Total Non-Point UCBOD	Total Non-Point UNBOD	SOD @ 20°C	Total Calb. Benthic Load (TCBL)	Reach Length	Proj. Model Avg. Reach Width	Proj. Temp.	Background Benthic Load	Effective Background Benthic Load	Man-Made Benthic Load	Background percentage reduction	Percentage Reduction of man-made sources	Reduced Background Benthic Load	Reduced Man-Made Benthic Load	Reduced TCBL adjusted for MOS	Reduced Total UCBOD Load	Reduced UNBOD Load	Reduced SOD Load at Projection Temp.	SOD @ 20°C	Total Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	**Total MOS at Projection Temp.**	**Non-Point UCBOD LA**	**Non-Point UNBOD LA**	**SOD LA at Projection Temp.**
	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	Kilo-meters	Meters	(deg Celsius)	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	%	%	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	kg O_2/day	kg O_2/day	kg O_2/day	g O_2 / [(m^2)(day)]	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day	kg O_2/day
16, Hwy 190 Ditch BL	0.016	0.005	0.50	0.520	2.20	1.000	19.60	0.00	0.00	0.52	0%	40%	0.00	0.31	0.39	0.02	0.01	0.64	0.375	0.026	0.008	0.17	0.02	0.01	0.64
17, Hwy 190 Ditch BL to Hwy 434/190 Ditch BL	0.000	0.000	3.00	3.000	0.10	25.300	19.60	0.00	0.00	3.00	0%	40%	0.00	1.80	2.25	0.00	0.00	4.44	2.250	0.000	0.000	1.11	0.00	0.00	4.44
18, Hwy 434/190 Ditch BL	0.016	0.005	0.50	0.520	2.20	1.000	19.60	0.00	0.00	0.52	0%	40%	0.00	0.31	0.39	0.02	0.01	0.64	0.375	0.026	0.008	0.17	0.02	0.01	0.64
19, Hwy 434/190 Ditch BL to BL06	0.000	0.000	3.00	3.000	0.10	25.300	23.30	0.00	0.00	3.00	0%	40%	0.00	1.80	2.25	0.00	0.00	5.61	2.250	0.000	0.000	1.40	0.00	0.00	5.61
20, BL06 to confluence with BBB	1.616	0.000	3.50	5.116	2.10	44.200	23.30	0.00	0.00	5.12	0%	40%	0.00	3.07	3.84	90.00	0.00	239.95	2.625	112.500	0.000	82.49	90.00	0.00	239.95
21, BB03 to Hwy 434/I-12 ditch BBB	0.000	0.000	2.00	2.000	0.10	3.660	19.60	0.00	0.00	2.00	0%	80%	0.00	0.40	0.50	0.00	0.00	0.14	0.500	0.000	0.000	0.04	0.00	0.00	0.14
22, Hwy 434/I-12 Ditch BBB	0.015	0.004	0.50	0.520	6.50	1.000	19.60	0.00	0.00	0.52	0%	80%	0.00	0.10	0.13	0.02	0.01	0.63	0.125	0.025	0.007	0.16	0.02	0.01	0.63
23, Hwy 434/I-12 Ditch BBB to Folger Ditch	0.000	0.000	2.00	2.000	0.20	3.660	19.60	0.00	0.00	2.00	0%	80%	0.00	0.40	0.50	0.00	0.00	0.29	0.500	0.000	0.000	0.07	0.00	0.00	0.29
24, Folger Ditch	0.013	0.005	0.50	0.518	0.40	1.000	19.60	0.00	0.00	0.52	0%	80%	0.00	0.10	0.13	0.00	0.00	0.04	0.125	0.001	0.001	0.01	0.00	0.00	0.04
25, Folger Ditch to BB02	2.355	0.000	6.00	8.355	2.90	3.660	19.60	0.00	0.00	8.36	0%	80%	0.00	1.67	2.09	5.00	0.00	12.42	1.500	6.250	0.000	4.35	5.00	0.00	12.42
26, BB02 to Berry Todd Rd Ditch	0.000	0.000	7.00	7.000	0.10	15.240	19.60	0.00	0.00	7.00	0%	80%	0.00	1.40	1.75	0.00	0.00	2.08	1.750	0.000	0.000	0.52	0.00	0.00	2.08
27, Berry Todd Rd Ditch	0.017	0.005	0.50	0.521	2.00	1.000	19.60	0.00	0.00	0.52	0%	80%	0.00	0.10	0.13	0.01	0.00	0.20	0.125	0.008	0.002	0.05	0.01	0.00	0.20
28, Berry Todd Rd Ditch to Hwy 190 Ditch BBB	2.088	0.000	7.00	9.088	1.10	15.240	19.60	0.00	0.00	9.09	0%	80%	0.00	1.82	2.27	7.00	0.00	22.89	1.750	8.750	0.000	7.47	7.00	0.00	22.89
29, Hwy 190 Ditch BBB	0.015	0.005	0.50	0.520	1.30	1.000	19.60	0.00	0.00	0.52	0%	80%	0.00	0.10	0.13	0.00	0.00	0.13	0.125	0.005	0.002	0.03	0.00	0.00	0.13
30, Hwy 190 Ditch BBB to BB01	4.593	0.000	7.00	11.593	0.50	15.240	23.30	0.00	0.00	11.59	0%	80%	0.00	2.32	2.90	7.00	0.00	13.13	1.750	8.750	0.000	5.03	7.00	0.00	13.13
31, BB01 to Confluence With Bayou Lacombe	32.812	16.827	7.00	56.638	0.30	39.620	23.30	0.00	0.00	56.64	0%	80%	0.00	11.33	14.16	78.00	40.00	20.48	1.750	97.500	50.000	34.62	78.00	40.00	20.48
32, Big Branch Bayou to BL07	0.000	0.000	3.50	3.500	0.10	82.300	23.30	0.00	0.00	3.50	0%	0%	0.00	3.50	4.38	0.00	0.00	35.46	4.375	0.000	0.000	8.86	0.00	0.00	35.46
33, BL07 to confluence w/ Cypress Bayou	1.013	0.000	1.00	2.013	2.40	82.300	23.30	0.00	0.00	2.01	0%	0%	0.00	2.01	2.52	200.00	0.00	243.14	1.250	250.000	0.000	110.79	200.00	0.00	243.14
34, CB03 to Hwy 190 ditch CB	0.000	0.000	6.00	6.000	0.30	4.690	23.30	0.00	0.00	6.00	0%	80%	0.00	1.20	1.50	0.00	0.00	2.08	1.500	0.000	0.000	0.52	0.00	0.00	2.08
35, Hwy 190 Ditch CB	0.016	0.004	0.50	0.520	1.60	1.000	23.30	0.00	0.00	0.52	0%	80%	0.00	0.10	0.13	0.01	0.00	0.20	0.125	0.006	0.002	0.05	0.01	0.00	0.20
36, Hwy 190 Ditch CB to CB02	8.153	0.000	6.00	14.153	1.70	4.690	23.30	0.00	0.00	14.15	0%	80%	0.00	2.83	3.54	13.00	0.00	11.78	1.500	16.250	0.000	6.19	13.00	0.00	11.78
37, CB02 to CB01	3.963	0.000	6.00	9.963	2.70	14.020	23.30	0.00	0.00	9.96	0%	80%	0.00	1.99	2.49	30.00	0.00	55.92	1.500	37.500	0.000	21.48	30.00	0.00	55.92
38, CB01 to confluence w/ Bayou Lacombe	7.070	0.000	0.00	7.070	0.20	35.360	23.30	0.00	0.00	7.07	0%	80%	0.00	1.41	1.77	10.00	0.00	0.00	0.000	12.500	0.000	2.50	10.00	0.00	0.00
39, Cypress Bayou to BL08	0.000	0.000	1.00	1.000	0.20	74.680	23.30	0.00	0.00	1.00	0%	0%	0.00	1.00	1.25	0.00	0.00	18.39	1.250	0.000	0.000	4.60	0.00	0.00	18.39
40, BL08 to BL09	3.463	1.154	1.50	6.117	5.80	74.680	23.30	0.00	0.00	6.12	0%	10%	0.00	5.51	6.88	1350.00	450.00	719.81	1.688	1687.500	562.500	629.95	1350.00	450.00	719.81
41, BL09 to Lake Pontchartrain	6.710	0.000	0.00	6.710	0.30	99.360	23.30	0.00	0.00	6.71	0%	0%	0.00	6.71	8.39	200.00	0.00	0.00	0.000	250.000	0.000	50.00	200.00	0.00	0.00
Sub-Total									0.00	167.95			0.00	53.31	66.64	1990.08	490.02	1410.48		2487.60	612.53	972.64	**1990.08**	**490.02**	**1410.48**

Winter TMDL Calculations for Point Source loads:

Bayou Lacombe Subsegment 040902

Input data into the shaded cells.

Point Source Loading Calculations

Pt. Source / Facility Description and Reach #	AI No.	Permit No.	First Named Receiving Stream	Included in the Projection Model (Yes/No)	Anticipated/ design flow (gpd)	Anticipated/ design flow (cms)	Flow with MOS (gpd)	Flow with MOS (cms)	Proposed Permit Limits			UCBOD				UNBOD				Sub-Total of Point Source BOD Loads				
									$CBOD_5$ (mg/l)	NH_3N (mg/l)	MOS (%)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	**Loads (kg/day)**	**WLA (kg/day)**	**WLA (lbs/day)**	**Reserve/ MOS (kg/day)**	**Reserve/ MOS (lbs/day)**
						A		A1 = A/(1-E)	B	C	E	F = 2.3 x B	G = (86.4)(A1)(F)	H = (1-E) x G	I = (E)(G)	J = 4.3 x C	K = (86.4)(A1)(J)	L = (1-E) x K	M = (D)(K)	G + K + N	H + L +O	H + L + O	I + M + P	I + M + P
Lacombe Car Care	6470	LAG531601	Bayou Lacombe	Yes	290	0.00001	363	0.00002	20	10	20%	46.00	0.06	0.05	0.01	43.00	0.06	0.05	0.01	**0.12**	**0.10**	**0.22**	**0.02**	**0.05**
Brier Lake Utilities Inc - Brier Lake Estates	31079	LAG570209	Cypress Bayou	Yes	40,000	0.00175	50,000	0.00219	5	2	20%	11.50	2.18	1.74	0.44	8.60	1.63	1.30	0.33	**3.80**	**3.04**	**6.71**	**0.76**	**1.68**
Goux Enterprises Inc - Lacombe Nursing Home	33986	LAG540330	Bayou Lacombe	Yes	9,800	0.00043	12,250	0.00054	20	10	20%	46.00	2.13	1.71	0.43	43.00	1.99	1.60	0.40	**4.13**	**3.30**	**7.28**	**0.83**	**1.82**
Janie Brown's Casual Restaurant	40796	LAG530691	Bayou Lacombe	Yes	1,750	0.00008	2,188	0.00010	20	10	20%	46.00	0.38	0.30	0.08	43.00	0.36	0.28	0.07	**0.74**	**0.59**	**1.30**	**0.15**	**0.32**
ICO Corp	41881	LAG530256	Cypress Bayou	Yes	80	0.00000	100	0.00000	10	2	20%	23.00	0.01	0.01	0.00	8.60	0.00	0.00	0.00	**0.01**	**0.01**	**0.02**	**0.00**	**0.01**
M&Ms Snoballs	42348	LAG530845	Bayou Lacombe	Yes	270	0.00001	338	0.00001	20	10	20%	46.00	0.06	0.05	0.01	43.00	0.05	0.04	0.01	**0.11**	**0.09**	**0.20**	**0.02**	**0.05**
Regina Coeli Child Development Center - Lacombe/Mandeville Head Start	43023	LAG530456	Bayou Lacombe	Yes	1,950	0.00009	2,438	0.00011	20	10	20%	46.00	0.42	0.34	0.08	43.00	0.40	0.32	0.08	**0.82**	**0.66**	**1.45**	**0.16**	**0.36**
Abraham Williams Apartments	43087	LAG530471	Bayou Lacombe	Yes	1,940	0.00008	2,425	0.00011	20	10	20%	46.00	0.42	0.34	0.08	43.00	0.39	0.32	0.08	**0.82**	**0.65**	**1.44**	**0.16**	**0.36**
Chahta Ima Elementary School	43400	LAG540698	Bayou Lacombe	Yes	7,950	0.00035	9,938	0.00044	20	10	20%	46.00	1.73	1.38	0.35	43.00	1.62	1.29	0.32	**3.35**	**2.68**	**5.90**	**0.67**	**1.48**
Bayou Lacombe Middle School	43406	LAG570058	Bayou Lacombe	Yes	4,600	0.00020	5,750	0.00025	10	5	20%	23.00	0.50	0.40	0.10	21.50	0.47	0.37	0.09	**0.97**	**0.77**	**1.71**	**0.19**	**0.43**
Russell's Quick Stop LLC	70935	LAG532035	Bayou Lacombe	Yes	1,855	0.00008	2,319	0.00010	20	10	20%	46.00	0.40	0.32	0.08	43.00	0.38	0.30	0.08	**0.78**	**0.62**	**1.38**	**0.16**	**0.34**
J&S Bayou Gas & Go LLC	75143	LAG532912	Bayou Lacombe	Yes	120	0.00001	150	0.00001	20	10	20%	46.00	0.03	0.02	0.01	43.00	0.02	0.02	0.00	**0.05**	**0.04**	**0.09**	**0.01**	**0.02**
A&L Enterprise LLC	75810	LAG532848	Bayou Lacombe	Yes	100	0.00000	125	0.00001	20	10	20%	46.00	0.02	0.02	0.00	43.00	0.02	0.02	0.00	**0.04**	**0.03**	**0.07**	**0.01**	**0.02**
J & S Chevron LLC	84112	LAG531082	Bayou Lacombe	Yes	3,100	0.00014	3,875	0.00017	20	10	20%	46.00	0.67	0.54	0.13	43.00	0.63	0.50	0.13	**1.31**	**1.04**	**2.30**	**0.26**	**0.58**
Sal & Judy's Restaurant	89241	LAG531238	Bayou Lacombe	Yes	3,630	0.00016	4,538	0.00020	20	10	20%	46.00	0.79	0.63	0.16	43.00	0.74	0.59	0.15	**1.53**	**1.22**	**2.70**	**0.31**	**0.67**
Southeastern Louisiana Water & Sewer Co.,LLC, Medcath WWTP, LA Medical Center & Heart Hospital	94173	LAG70479	Big Branch	Yes	60,000	0.00263	75,000	0.00329	5	2	20%	11.50	3.26	2.61	0.65	8.60	2.44	1.95	0.49	**5.71**	**4.57**	**10.06**	**1.14**	**2.52**
Carollo's Shopping Center	99609	LAG531547	Bayou Lacombe	Yes	4,999	0.00022	6,249	0.00027	20	10	20%	46.00	1.09	0.87	0.22	43.00	1.02	0.81	0.20	**2.11**	**1.68**	**3.71**	**0.42**	**0.93**
OW Inc - Bayou Mini Storage	101375	LAG531325	Big Branch	Yes	20	0.00000	25	0.00000	10	2	20%	23.00	0.00	0.00	0.00	8.60	0.00	0.00	0.00	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**
Folger Coffee Co - Lacombe Distribution Center	114220	LAG531459	Big Branch Bayou	Yes	4,000	0.00018	5,000	0.00022	10	2	20%	23.00	0.44	0.35	0.09	8.60	0.16	0.13	0.03	**0.60**	**0.48**	**1.05**	**0.12**	**0.26**
Village Church Lutheran Inc - The Village Church Lutheran	114927	LAG532765	Bayou Lacombe	Yes	2,100	0.00009	2,625	0.00012	20	10	20%	46.00	0.46	0.37	0.09	43.00	0.43	0.34	0.09	**0.88**	**0.71**	**1.56**	**0.18**	**0.39**
LA Pines Ranch Inc	117076	LAG531595	Cypress Bayou	Yes	4,999	0.00022	6,249	0.00027	10	2	20%	23.00	0.54	0.44	0.11	8.60	0.20	0.16	0.04	**0.75**	**0.60**	**1.32**	**0.15**	**0.33**
Tiller of the Land	119584	LAG531543	Cypress Bayou	Yes	100	0.00000	125	0.00001	10	2	20%	23.00	0.01	0.01	0.00	8.60	0.00	0.00	0.00	**0.01**	**0.01**	**0.03**	**0.00**	**0.01**
Pepes Mexican Restaurant LLC	122511	LAG531655	Bayou Lacombe	Yes	1,120	0.00005	1,400	0.00006	20	10	20%	46.00	0.24	0.20	0.05	43.00	0.23	0.18	0.05	**0.47**	**0.38**	**0.83**	**0.09**	**0.21**
Kevin J. Smith Construction Company - Smith Office Building	123821	LAG531695	Cypress Bayou	Yes	200	0.00001	250	0.00001	10	2	20%	23.00	0.02	0.02	0.00	8.60	0.01	0.01	0.00	**0.03**	**0.02**	**0.05**	**0.01**	**0.01**
A to Z Preschool LLC	127495	LAG531853	Cypress Bayou	Yes	1,700	0.00007	2,125	0.00009	10	2	20%	23.00	0.19	0.15	0.04	8.60	0.07	0.06	0.01	**0.25**	**0.20**	**0.45**	**0.05**	**0.11**
St. Tammany Parish Sheriff's Office - Lacombe Substation	130003	LAG531889	Bayou Lacombe	Yes	500	0.00002	625	0.00003	20	10	20%	46.00	0.11	0.09	0.02	43.00	0.10	0.08	0.02	**0.21**	**0.17**	**0.37**	**0.04**	**0.09**
Anna Elliot - 28105 Hwy 190 Building	142046	LAG532100	Bayou Lacombe	Yes	80	0.00000	100	0.00000	20	10	20%	46.00	0.02	0.01	0.00	43.00	0.02	0.01	0.00	**0.03**	**0.03**	**0.06**	**0.01**	**0.01**
Taxpayer Properties II Lacombe LLC - Family Dollar	149801	LAG532247	Bayou Lacombe	Yes	80	0.00000	100	0.00000	20	10	20%	46.00	0.02	0.01	0.00	43.00	0.02	0.01	0.00	**0.03**	**0.03**	**0.06**	**0.01**	**0.01**
Lloyd's Bayou Bargains	151841	LAG532286	Bayou Lacombe	Yes	180	0.00001	225	0.00001	20	10	20%	46.00	0.04	0.03	0.01	43.00	0.04	0.03	0.01	**0.08**	**0.06**	**0.13**	**0.02**	**0.03**
US Postal Service - Lacombe Post Office	154892	LAG532531	Bayou Lacombe	Yes	300	0.00001	375	0.00002	20	10	20%	46.00	0.07	0.05	0.01	43.00	0.06	0.05	0.01	**0.13**	**0.10**	**0.22**	**0.03**	**0.06**
Russell's Quick Stop LLC - Bayou Daiquiris	155069	LAG532568	Bayou Lacombe	Yes	500	0.00002	625	0.00003	20	10	20%	46.00	0.11	0.09	0.02	43.00	0.10	0.08	0.02	**0.21**	**0.17**	**0.37**	**0.04**	**0.09**
Python Corporation - Office/Warehouse	156133	LAG532658	Big Branch	Yes	120	0.00001	150	0.00001	10	2	20%	23.00	0.01	0.01	0.00	8.60	0.00	0.00	0.00	**0.02**	**0.01**	**0.03**	**0.00**	**0.01**
H2O Systems Inc - Cypress Park Subdivision	156693	LA0123862	Cypress Bayou	Yes	120,000	0.00526	150,000	0.00657	5	2	20%	11.50	6.53	5.22	1.31	8.60	4.88	3.91	0.98	**11.41**	**9.13**	**20.13**	**2.28**	**5.03**
First Baptist Church of Lacombe	157435	LAG532764	Bayou Lacombe	Yes	1,170	0.00005	1,463	0.00006	20	10	20%	46.00	0.25	0.20	0.05	43.00	0.24	0.19	0.05	**0.49**	**0.39**	**0.87**	**0.10**	**0.22**
Feather & Fin Ranch	157509	LA0123986	Big Branch Bayou	Yes	56,000	0.00245	70,000	0.00307	10	2	20%	23.00	6.09	4.88	1.22	8.60	2.28	1.82	0.46	**8.37**	**6.70**	**14.77**	**1.67**	**3.69**
Vinson Guard Service Inc	157523	LAG532867	Bayou Lacombe	Yes	60	0.00000	75	0.00000	20	10	20%	46.00	0.01	0.01	0.00	43.00	0.01	0.01	0.00	**0.03**	**0.02**	**0.04**	**0.01**	**0.01**
Cris Tees	157670	LAG532891	Bayou Lacombe	Yes	20	0.00000	25	0.00000	20	10	20%	46.00	0.00	0.00	0.00	43.00	0.00	0.00	0.00	**0.01**	**0.01**	**0.01**	**0.00**	**0.00**
Convention Key Cards LLC - Key Marketing	157721	LAG532793	Bayou Lacombe	Yes	80	0.00000	100	0.00000	20	10	20%	46.00	0.02	0.01	0.00	43.00	0.02	0.01	0.00	**0.03**	**0.03**	**0.06**	**0.01**	**0.01**
Sacred Heart Catholic Church	157759	LAG532808	Bayou Lacombe	Yes	2,000	0.00009	2,500	0.00011	20	10	20%	46.00	0.44	0.35	0.09	43.00	0.41	0.33	0.08	**0.84**	**0.67**	**1.49**	**0.17**	**0.37**
St Tammany Fire Protection District 3 - Fire Station 32	157767	LAG532801	Cypress Bayou	Yes	20	0.00000	25	0.00000	10	2	20%	23.00	0.00	0.00	0.00	8.60	0.00	0.00	0.00	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**
St Tammany Fire Protection District 3 - Administration Office	157768	LAG532807	Bayou Lacombe	Yes	80	0.00000	100	0.00000	20	10	20%	46.00	0.02	0.01	0.00	43.00	0.02	0.01	0.00	**0.03**	**0.03**	**0.06**	**0.01**	**0.01**
Salvatore Impastato - New Orleans Bistro	157850	LAG532899	Bayou Lacombe	Yes	1,580	0.00007	1,975	0.00009	20	10	20%	46.00	0.34	0.28	0.07	43.00	0.32	0.26	0.06	**0.67**	**0.53**	**1.17**	**0.13**	**0.29**
Mottie McClary/Southern Motor Carrier Safety Consultants	157892	LAG532847	Cypress Bayou	Yes	40	0.00000	50	0.00000	10	2	20%	23.00	0.00	0.00	0.00	8.60	0.00	0.00	0.00	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**
St Tammany Parish Government - University Square WWTP (3)	158419	LA0124451	Big Branch Bayou	Yes	600,000	0.02629	750,000	0.03286			20%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
John Davis Park Community Center	162031	LAG533019	Bayou Lacombe	Yes	5,000	0.00022	6,250	0.00027	20	10	20%	46.00	1.09	0.87	0.22	43.00	1.02	0.81	0.20	**2.11**	**1.68**	**3.71**	**0.42**	**0.93**
H2O Systems, Inc., St. Tammany Parish Coroner's Complex	165334	LAG533227	Big Branch Bayou	Yes	700	0.00003	875	0.00004	10	2	20%	23.00	0.08	0.06	0.02	8.60	0.03	0.02	0.01	**0.10**	**0.08**	**0.18**	**0.02**	**0.05**
SUB-TOTAL Loads													**31.32**	**25.06**	**6.26**		**22.89**	**18.31**	**4.58**	**54.21**	**43.37**	**95.61**	**10.84**	**23.90**

Winter TMDL calculations and Projection model calculations for Headwater / Tributary loads:

Bayou Lacombe Subsegment 040902

Shaded cells are input values for calculations.	MARGIN OF SAFETY (MOS) (%) =	20%
Values to be used in the projection models.	If modeling the nitrogen series, be sure that columns "	

Headwater / Tributary Load Determinations

	FROM CALIBRATION					BACKGROUND VALUES						Reduced Man-Made Loads			PROJECTION VALUES						
Headwater / Tributary Description and Reach #	Seasonal Critical flow (cms)	UCBOD1 (mg O_2/L)	Total UCBOD (mg O_2/L)	UNBOD (mg O_2/L)	Total UNBOD (mg O_2/L)	Background UCBOD1 conc. (mg O_2/L)	Background UCBOD conc. (mg O_2/L)	Background UNBOD conc. (mg O_2/L)	Background UNBOD conc. (mg O_2/L)	Background % Reduction	Percent reduction of Man-Made loads	Reduced UCBOD1 load (kg O_2/day)	Reduced UCBOD load (kg O_2/day)	Reduced UNBOD load (kg O_2/day)	Projection UCBOD1 input conc. (mg O_2/L)	Projection UCBOD input conc. (mg O_2/L)	Projection UNBOD input conc. (mg O_2/L)	**Total MOS (kg O_2/day)**	**Total CBOD1 LA (kg O_2/day)**	**Total CBOD LA (kg O_2/day)**	**Total NBOD LA (kg O_2/day)**
Ditch #6 Hwy 190 BL, Reach 16	0.00280	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	40%	0.32	0.32	0.15	1.650	1.650	0.750	**0.12**	**0.32**	**0.32**	**0.15**
Ditch #7 Hwy 434/190 BL, Reach 18	0.00280	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	40%	0.32	0.32	0.15	1.650	1.650	0.750	**0.12**	**0.32**	**0.32**	**0.15**
Big Branch Bayou, Reach 21	0.00900	2.68	2.68	0.05	0.05	0.00	0.00	0.00	0.00	0%	80%	0.42	0.42	0.01	0.671	0.671	0.012	**0.11**	**0.42**	**0.42**	**0.01**
Ditch #8 Hwy 434/I-12 BBB, Reach 22	0.00280	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	80%	0.11	0.11	0.05	0.550	0.550	0.250	**0.04**	**0.11**	**0.11**	**0.05**
Ditch #9 Folger, Reach 24	0.00280	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	80%	0.11	0.11	0.05	0.550	0.550	0.250	**0.04**	**0.11**	**0.11**	**0.05**
Ditch A Berry Todd Rd, Reach 27	0.00280	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	80%	0.11	0.11	0.05	0.550	0.550	0.250	**0.04**	**0.11**	**0.11**	**0.05**
Ditch B Hwy 190 BBB, Reach 29	0.00280	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	80%	0.11	0.11	0.05	0.550	0.550	0.250	**0.04**	**0.11**	**0.11**	**0.05**
Cypress Bayou, Reach 34	0.02300	16.39	16.39	2.55	2.55	0.00	0.00	0.00	0.00	0%	80%	6.51	6.51	1.01	4.096	4.096	0.638	**1.88**	**6.51**	**6.51**	**1.01**
Ditch C Hwy 190 CB, Reach 35	0.00280	2.20	2.20	1.00	1.00	0.00	0.00	0.00	0.00	0%	80%	0.11	0.11	0.05	0.550	0.550	0.250	**0.04**	**0.11**	**0.11**	**0.05**
SUB-TOTAL TMDL LOADING												**8**	**8.10**	**1.55**				**2.41**	**8.10**	**8.10**	**1.55**

Winter TMDL calculations and Projection model calculations for Incremental loads:

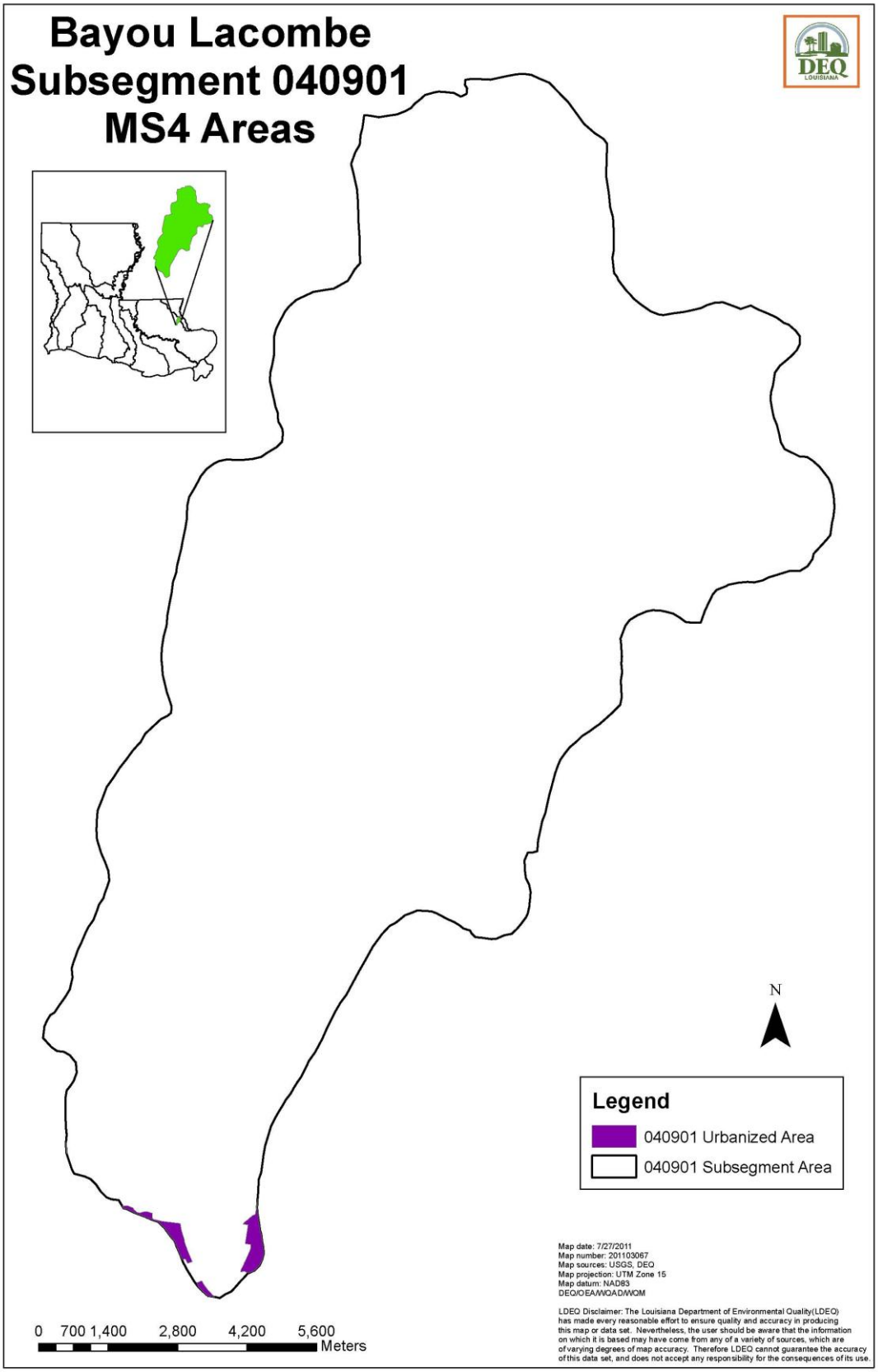
Bayou Lacombe Subsegment 040902

Shaded cells are input values for calculations.	If modeling the nitrogen series, be sure that columns "H" & "	
Values to be used in the projection models.	MARGIN OF SAFETY (MOS) (%) =	**20%**

Incremental Load Determinations:

Reach Description and #	Calibration Load Determinations: Projection Flow (cms)	Calb. UCBOD1 conc. (mg O_2/L)	Calb. Total UCBOD conc. (mg O_2/L)	Calb. UNBOD conc. (mg O_2/L)	Calb. Total UNBOD conc. (mg O_2/L)	Background Loading Concentrations: Background Conc. UCBOD1 (mg O_2/L)	Background Conc. Total UCBOD (mg O_2/L)	Background UNBOD (mg O_2/L)	Background Conc. Total UNBOD (mg O_2/L)	Background % Reduction	Reduced Background Loads: Reduced Background UCBOD1 (kg O_2/day)	Reduced Background Total UCBOD (kg O_2/day)	Reduced Background UNBOD (kg O_2/day)	Reduced Man-Made Loads: Actual % Reduction of Man-Made Loads	Reduced UCBOD1 Load (kg O_2/day)	Reduced Total UCBOD Load (kg O_2/day)	Reduced UNBOD Load (kg O_2/day)	Projection Model Input determinations: Projection UCBOD1 conc. (mg O_2/L)	Projection Total UCBOD conc. (mg O_2/L)	Projection UNBOD conc. (mg O_2/L)	**Total MOS (kg O_2/day)**	**Total CBOD1 LA (kg O_2/day)**	**Total CBOD LA (kg O_2/day)**	**Total NBOD LA (kg O_2/day)**
21, BB03 to Hwy 434/I-12 ditch BBB	0.14751	2.68	2.68	0.05	0.05	0.00	0.00	0.00	0.00	0%	0.00	0.00	0.00	80%	6.84	6.84	0.12	0.67	0.67	0.01	1.74	6.84	6.84	0.12
34, CB03 to Hwy 190 ditch CB	0.18882	16.39	16.39	2.55	2.55	0.00	0.00	0.00	0.00	0%	0.00	0.00	0.00	80%	53.46	53.46	8.33	4.10	4.10	0.64	15.45	53.46	53.46	8.33
Sub-Total benthic loading											**0.00**	**0.00**	**0.00**		**60.30**	**60.30**	**8.45**				**17.19**	**60.30**	**60.30**	**8.45**

Appendix E3 – MS4 Calculations


Bayou Lacombe
Subsegment 040901
MS4 Areas
DEQ
LOUISIANA
N
Legend
040901 Urbanized Area
040901 Subsegment Area
Map date: 7/27/2011
Map number: 201103067
Map sources: USGS, DEQ
Map projection: UTM Zone 15
Map datum: NAD83
DEQ/OEA/WQAD/WOM
LDEQ Disclaimer: The Louisiana Department of Environmental Quality(LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.
0 700 1,400 2,800 4,200 5,600
Meters

MS4 Calcs for 040901 Bayou Lacombe

STPA	MS4 responsibility for St.Tammany Parish =	Urbanized area not covered by incorporated areas
STPA	MS4 responsibility for St.Tammany Parish =	148.2008 acres
SA	Total Area of Subsegment 040901 =	43911.9200 acres
% of subsegment 040901 covered by STPA =		(STPA/SA) * 100
% of subsegment 040901 covered by STPA =		0.34

Summer TMDL:

	LA		MOS		
Nonpoint Loads =	1173		293		
STPA =	LA *	0.0034	MOS *	0.0034	
STPA =	4		1		5

Remaining Nonpoint LA = LA - STPA LA
Remaining Nonpoint LA = 1169

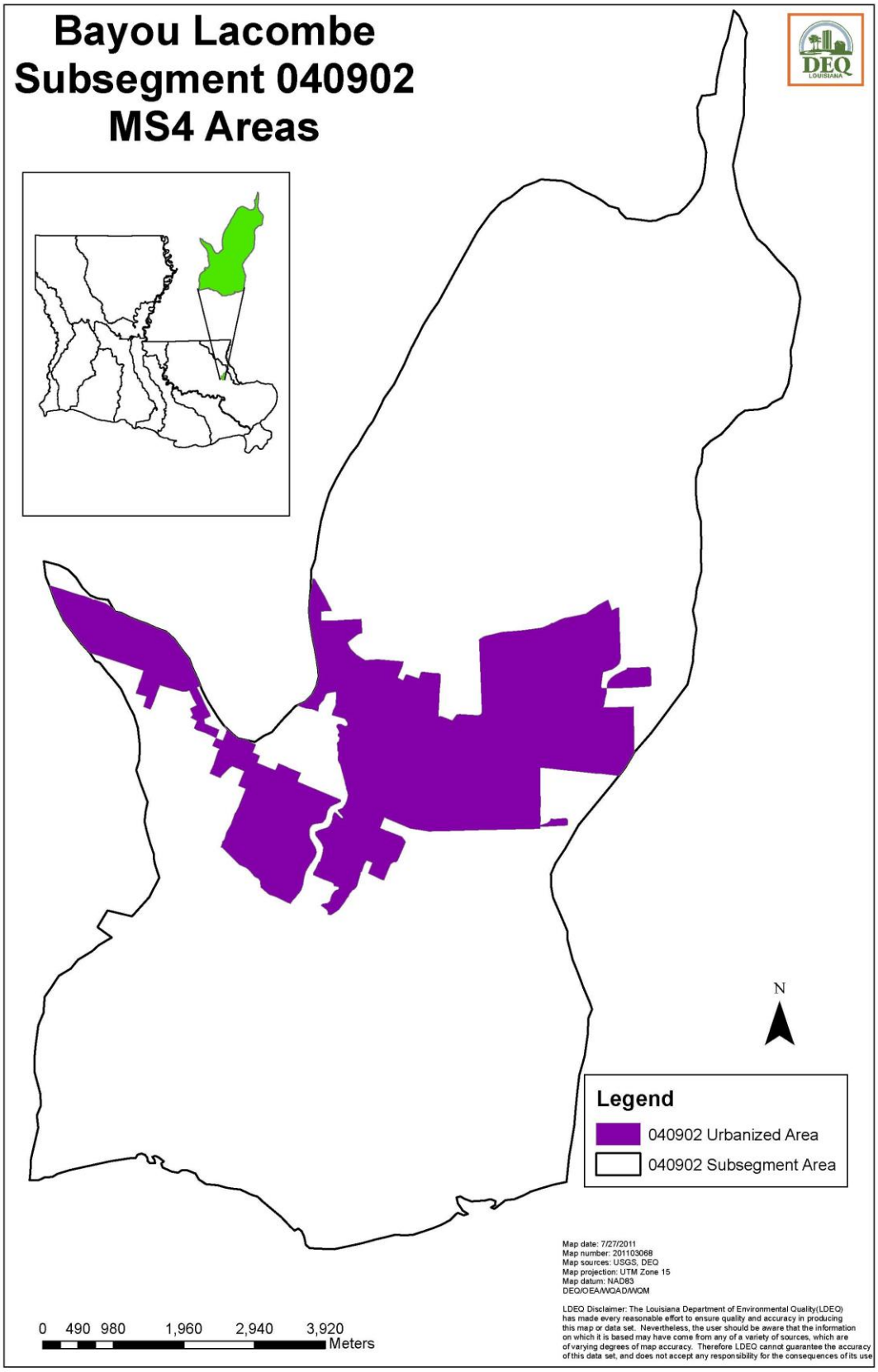
Remaining Nonpoint MOS = MOS - STPA MOS
Remaining Nonpoint MOS = 292

Winter TMDL:

	LA		MOS		
Nonpoint Loads =	927		232		
STPA =	LA *	0.0034	MOS *	0.0034	
STPA =	3		1		4

Remaining Nonpoint LA = LA - STPA LA
Remaining Nonpoint LA = 924

Remaining Nonpoint MOS = MOS - STPA MOS
Remaining Nonpoint MOS = 231


Bayou Lacombe
Subsegment 040902
MS4 Areas
DEQ
LOUISIANA
N
Legend
040902 Urbanized Area
040902 Subsegment Area
Map date: 7/27/2011
Map number: 201103068
Map sources: USGS, DEQ
Map projection: UTM Zone 15
Map datum: NAD83
DEQ/OEA/WQAD/WQM
LDEQ Disclaimer: The Louisiana Department of Environmental Quality(LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use
0 490 980 1,960 2,940 3,920
Meters

MS4 Calcs for 040902 Bayou Lacombe

STPA	MS4 responsibility for St.Tammany Parish =	Urbanized area not covered by incorporated areas
STPA	MS4 responsibility for St.Tammany Parish =	3440.3590 acres
SA	Total Area of Subsegment 040802 =	21002.0700 acres
% of subsegment 040802 covered by STPA =		(STPA/SA) * 100
% of subsegment 040802 covered by STPA =		16.38

Summer TMDL:

	LA		MOS		
Nonpoint Loads =	10639		2660		
STPA =	LA *	0.1638	MOS *	0.1638	
STPA =	1743		436		2179

Remaining Nonpoint LA = LA - STPA LA
Remaining Nonpoint LA = 8896

Remaining Nonpoint MOS = MOS - STPA MOS
Remaining Nonpoint MOS = 2224

Winter TMDL:

	LA		MOS		
Nonpoint Loads =	8752		2188		
STPA =	LA *	0.1638	MOS *	0.1638	
STPA =	1434		358		1792

Remaining Nonpoint LA = LA - STPA LA
Remaining Nonpoint LA = 7318

Remaining Nonpoint MOS = MOS - STPA MOS
Remaining Nonpoint MOS = 1830

Appendix E4 – Reference Stream Data

From Report by DeEtte "BOD STATISTICS for the REFERENCE STREAMS" dated July 18, 1997

Stream	Date	Time/ Sample	Site	BOD Dilution* NS, S (mg/l)	CBODu (mg/l)	kd (1/day)	NBODu (mg/l)	kn (1/day)	BODu (mg/l)	BOD60 (mg/l)
Beaucoup	10/10/1995	1315	1	100, 100	4.65	0.06	4.12	0.17	9.95	7.8
Creek		1330	1	100, 100	1.8	0.096	4.78	0.17	7.68	5.5
		1335	1	100, 100	1.7	0.172	8.5	0.18	9.49	6.9
Big Roaring	10/10/1995	1000	1	100, 100	3.57	0.194	4.51	0.017	6.23	6.5
Bayou		1010	1	100, 100	4.06	0.211	6.07	0.017	8.33	8
		1020	1	100, 100	2.82	0.141	5.66	0.015	6.43	6.3
Chemin-	10/10/1995	1845	1	100, 100	2.81	0.182	6.52	0.017	7.25	7.1
a-Haut		1900	1	100, 100	1.4	0.226	3.77	0.017	4.27	4.1
		1915	1	100, 100	2.48	0.126	3.58	0.018	4.7	4.9
Mid Fork B.	8/14/1995	1830	1	100, 100	1.35	0.081	13.09	0.021	11.44	9
D'Arbonne		1840	1	100, 100	0.65	0.226	13.46	0.023	15.75	9.5
		1850	1	100, 100	0.58	0.226	10.36	0.033	13.08	8.6
Indian	10/9/1995	1200	1	100, 100	3.27	0.106	7.66	0.018	8.61	8.1
Bayou		1215	1	100, 100	3.31	0.119	6.83	0.018	8.61	7.8
		1230	1	100, 100	2.25	0.111	7.3	0.017	8.5	6.8
Kisatchie	10/25/1995	805	1	200, 300	1.7	0.187	3.55	0.018	3.84	4.1
Bayou		0840-2	2	200, 300	1.2	0.187	3.85	0.021	3.83	4
		0840-3	3	200, 300	1.69	0.141	2.6	0.017	3.26	3.4
Leading	10/10/1995	1100	1	100, 100	1.04	0.182	7.7	0.018	7.24	6.1
Bayou		1105	1	100, 100	0.94	0.191	8.15	0.017	7.88	6.3
		1110	1	100, 100	1.02	0.221	7.62	0.021	6.93	6.4
Meridian	8/15/1995	740	1	200, 300	0.61	0.226	9.87	0.023	9.17	7.1
Creek		805	2	200, 300	0.81	0.226	9.03	0.038	9.43	7.8
		850	3	200, 300	0.81	0.226	9.85	0.023	9.45	7.2
Pearl	10/17/1995	730	1	200, 300	2.71	0.119	2.24	0.035	4.6	4.7
Creek		830	2	200, 300	2.06	0.035	2.23	0.02	4.06	3.3
		1135	3	200, 300	2.25	0.035	0.92	0.02	3.68	2.8
		1115-trib	Trib	200, 300	2.25	0.035	0.28	0.226	2.7	2.4
Saline	10/24/1995	800	1	200, 300	1.69	0.111	2.98	0.018	3.7	3.7
Bayou		830	2	200, 300	1.5	0.172	3.46	0.017	3.68	3.6
		2000	3	200, 300	1.7	0.187	3.94	0.018	4.22	4.4
Kisatchie	8/20/1996	800	1	300, 300	1.54	0.141	4.2	0.018	4.52	4.09
Bayou		1303	3	300, 300	1.51	0.096	4.23	0.018	5.65	4.11
		1935	4	300, 300	1.68	0.081	4.49	0.018	5.15	4.66
	8/22/1996	215	5	300, 300	2.59	0.05	2.73	0.02	5.44	4.23
Sixmile	9/17/1996	805	1	300, 300	0.9	0.202	4.01	0.018	4.21	3.61
Creek		958	2	300, 300	2.26	0.187	2.46	0.016	4	4.17
		1730	3	300, 300	1.78	0.187	4.58	0.018	4.7	4.6
Meridian	8/7/1996	755	1	300, 300	14.47	0.03	0.22	0.02	15.12	12.3
Creek		1000	2	300, 300	6.86	0.033	4.92	0.018	14.11	9.54
		1250	3	300, 300	4.06	0.048	7.73	0.018	12.89	9.1
Calcasieu	9/4/1996	830	1	300, 300	2.36	0.035	3.08	0.018	5.79	4.15
River		952	2	300, 300	2.24	0.035	3.56	0.018	6.06	4.34
		1533	2A	300, 300	9.58	0.035	10.92	0.017	23.25	15.5
		1612	3	300, 300	3.15	0.035	3.13	0.017	7.38	4.85
Average					2.57		5.44			

REFERENCE STREAM NONPOINT LOADING

REFERENCE STREAM	WIDTH (ft)	NONPOINT FLOW (cfs/mi)	NONPOINT $NBOD_U$ (lb/mi/day)	NONPOINT $NBOD_U$ (gm O_2/m2/day)	NONPOINT $CBOD_U$ (lb/mi/day)	NONPOINT $CBOD_U$ (gm O_2/m2/day)	TEMPERATURE (deg C)	DISSOLVED OXYGEN LEVEL (mg/L)	SOD @ 20 deg C (gm O_2\m^2-d)	TOTAL BENTHIC LOAD @ 20 deg C (gm O_2\m^2-day)	STREAM TEMP (deg C)	SOD @ STREAM TEMP (gm O_2\m^2-day)	BENTHIC LOAD @ STREAM TEMP (gm O_2\m^2-day)
Big Roaring	52		5.35	0.095	38.70	0.688	20.150	5.880	1.45	2.234	20.15	1.466	2.249
Chemin-a-haut	40		1.46	0.034	8.10	0.187	17.170	5.530	2.95	3.171	17.17	2.410	2.631
Indian Bayou	72		6.97	0.090	16.95	0.218	20.820	6.280	1.52	1.827	20.80	1.609	1.917
Leading Bayou	10		0.238	0.022	0.34	0.031	14.250	7.640	2.23	2.278	14.25	1.476	1.529
Middle fork d'Arbonne	42		15.26	0.336	13.55	0.298	28.820	4.510	1.22	1.850	28.82	2.281	2.915
Beaucoup	26		14	0.498	4.75	0.169	16.450	3.530	4.20	4.867	16.45	3.260	3.927
Salline Bayou	35	0.77	61.93	1.637	20.08	0.531	16.110	8.280	2.25	4.417	16.11	1.704	3.872
Sixmile Bayou	54	0.45	0	0.000	0.00	0.000	24.180	7.770	0.00	0.000	24.18	0.000	0.000
Kisatchie Bayou (1995, sites 2-3)	N/A		N/A	N/A	N/A	N/A	14.34	9.61	N/A	N/A	N/A	N/A	N/A
Kisatchie Bayou (1996, Sites 3-4)	56		Not Done	Not Done	Not Done	Not Done	28.77	7.38	Not Done	Not Done	28.77	Not Done	Not Done
Kisatchie Bayou (1996, Sites 4-5)	59		Not Done	Not Done	Not Done	Not Done	27.70	6.61	Not Done	Not Done	27.70	Not Done	Not Done
Meridian Creek (1995, Sites 2-3)	17.21		N/A	N/A	N/A	N/A	25.00	5.52	N/A	N/A	25.00	N/A	N/A
Meridian Creek (1996, Sites 2-3)	18.04		0	0.000	0.00	0.000	25.770	5.140	1.00	1.000	25.77	1.510	1.510
Pearl Creek (Sites 2-3)	17.9		0	0.000	0.00	0.000	15.870	9.220	0.00	0.000	15.87	0.000	0.000
Calcasieu River (Sites 2-3)	72		Not Done	Not Done	Not Done	Not Done	27.86	7.72	Not Done	Not Done	27.86	Not Done	Not Done
Average		0.61	10.5208	0.271	10.25	0.21	21.55	6.71	1.68	2.16	22.06	1.57	2.055

Site ID Number	Waterbody	Site Description	Subsegment	Collection Date	Collection Time	LAB ID NUMBER	Chloride, Ion Chromatograph (ppm)	Sulfate (ppm)	Specific Conductance (umhos/cm)	Sodium (ppm)	SALINITY (ppt)	Alkalinity (ppm)	Hardness (ppm)	pH, Ultimate BOD survey	TDS (ppm)	TSS (ppm)	Turbidity (NTU)	Color (PCU)	Ammonia-Nitrogen (ppm)	Nitrate+Nitrite Nitrogen (ppm)	TKN (ppm)	TOC (ppm)	TP (ppm)
0447	Anacoco Bayou	north of Rosepine, downstream of bridge on Hawkins Road	110506	1/29/2003	11:00:00 AM	AF01822	4.6	3.2	45.3	12.9		9.7	13.9	5.96	52.7	15.2	19		ND	0.09	0.41	6.1	0.09
				10/8/2003	11:30:00 AM	AF22918	9.2	4.4	120	10.7		36.4	32.3	6.6	75.3	6.5	7.6	35	ND	0.56	0.25	5.1	0.1
0450	Little Kisatchie Bayou	north of Leesville, downstream of bridge on LA Hwy 118 in Kisatchie National Forest	101103			AF04741	2.8	4.5	30.7	2.5		3.5	5.6	6.65	59.3	6.5	12		ND	ND	ND	3	0.08
				10/8/2003	10:05:00 AM	AF22923	3.9	5.9	50.5	5		7.6	8.8	6.92	67.3	ND	2.6	25	ND	ND	0.1	3.7	0.06
				3/11/2004	9:10:00 AM	AG06009	2.9	4.4	31.5			3.9	6.7	6.55	56	4	13		ND	ND	0.11	4	0.09
0457	Chemin-A-Haut Creek	north of Bastrop, upstream of bridge on Chem Cutoff Road	80401	11/20/2002	10:10:00 AM	AE25657	14.7	4.5	133	11.6		43.6	40.5	6.52	99.3	ND	8.1		ND	ND	0.7	9.9	0.07
				10/22/2003	9:50:00 AM	AF24138	18.1	ND	204	16.5		83.2	70.2	6.89	114	ND	2.8		ND	0.06	0.27	7.3	0.07
0458	Bayou Bartholemew	northeast of Bastrop, upstream of bridge on Knox Ferry Road	80401	11/20/2002	11:00:00 AM	AE25662	15.2	12.6	133	9.1		41.6	46.2	6.32	125	18	58		ND	0.18	0.89	8.1	0.23
				10/22/2003	10:25:00 AM	AF24143	19.9	6.4	231	15.7		89.7	92.7	7.07	150	23.3	22		ND	0.08	0.31	7.2	0.11
				1/28/2004	9:15:00 AM	AG02244	8.9	6.4	111	6.7		30.4	34.9	6.65	111	29	80		ND	ND	0.8	12	0.27
0466	Duck Slough	east of Pineville, upstream of bridge on Muddy Bayou Road in	101501	11/20/2002	11:50:00 AM	AE25667	2.4	ND	48.5	2.9		15.4	21.1	5.89	91.3	30.7	16		0.16	ND	1.93	30.7	0.11
				1/28/2004	11:15:00 AM	AG02249	2.1	ND	37.3	1.8		8.9	14.9	NR	62	9.5	17		ND	ND	1.01	27	0.05
0486				11/20/2002	11:10:00 AM	AE25672	2.2	ND	49.3	2.1		20.3	26.5	5.93	105	22.7	22		ND	ND	1.85	33.2	0.08
				1/28/2004	12:00:00 PM	AG02254	1.8	ND	47.1	1.5		14	21.7	NR	72.7	6	18		Nd	ND	1.69	34.8	0.06
0487	Little Bayou Pierre	north of Simpson, downstream of bridge on LA Hwy 118 in Kisatchie National Forest	101103			AF04746	3.2	5.3	35.7	2.9		4	6.9	5.93	53.3	4.5	11		ND	ND	ND	3.1	0.08
				10/8/2003	9:45:00 AM	AF22928	5.1	9.2	64.6	7.1		10.1	12.1	6.85	88	ND	4	25	ND	ND	ND	3.5	0.07
				3/11/2004	9:10:00 AM	AG06013	3.1	5.5	37.2			4.2	7.9	6.49	65.3	16.5	13		ND	ND	0.19	5.1	0.07
0488	Bear Head Creek	west/northwest of DeQuincy, downstream of bridge on LA Hwy	30807	1/29/2003	12:10:00 PM	AF01827	9.6	1.8	45.2	5.2		ND	9.1	6.07	70	9.5	25		ND	ND	0.83	9.1	ND
				10/8/2003	1:10:00 PM	AF22933	5.1	2	37.6	3.7		2.6	11.5	6.49	75.3	4.7	9.3	180	ND	ND	0.66	20.4	0.08
0489	Bechwith Creek	north of DeQuincy, downstream of bridge on Smokey Cove Pentecostal Church Road	30803	1/29/2003	1:34:00 PM	AF01842	8.2	2.4	49.5	5.2		6.3	12.7	5.53	64.7	14.3	23		ND	ND	0.31	7.4	0.11
				10/8/2003	1:50:00 PM	AF22938	5.2	2.4	50.9	3.2		9.5	16.6	6.44	80.7	9.3	13	110	ND	ND	1.11	14.1	0.1
				3/11/2004	9:10:00 AM	AG06017	6.9	1.6	52.8			8.5	14.7	6.51	74	7	20		ND	0.06	0.7	13.9	ND
0490	Castor Creek	east of Oberlin, downstream of bridge on Parish Road 146	50303	1/29/2003	10:45:00 AM	AF01847	5.4	2.7	49.2	4.3		12.7	14.4	6.3	87.3	14	44		0.15	0.14	0.58	7.2	0.13
				10/8/2003	10:45:00 AM	AF22943	6.6	2.4	77	4.2		22.5	22.7	6.83	77.3	8	13	110	ND	ND	1.04	12.9	0.17
0491	Bayou Nezpique	northwest of mamou, upstream of bridge on LA Hwy. 376	50301	1/29/2003	11:30:00 AM	AF01852	12.9	4.1	93.2	10.7		16.6	19.7	6.26	108	34.7	64		0.13	0.44	0.94	7.3	0.18
				10/8/2003	11:45:00 AM	AF22948	33.1	6.3	290	43.1		85.2	46.2	8.07	219	6	37	90	0.18	0.33	1.54	14.1	0.26
				3/11/2004	9:10:00 AM	AG06029	6.6	2.5	79			23.3	22.7	6.94	135	21.5	82		0.12	0.26	1.4	17.2	0.22
0494	Bogue Lusa Creek	near Sheridan, downstream of bridge on LA Hwy 439	90401	11/20/2002	10:53:00 AM	AE25687	4	ND	22.2	2		2.2	ND	5.08	26.7	4	3.7		ND	0.07	0.36	6.8	0.14
				10/22/2003	11:30:00 AM	AF24148	3.9	ND	22.3	2.2		2.9	ND	7.42	22.7	ND	2.9		ND	0.08	0.2	4.1	0.07
				1/28/2004	11:20:00 AM	AG02259	3.9	ND	24.1	2		2.5	5.4	6.66	ND	ND	4.3		ND	0.09	0.54	4.9	ND
0495	Tchefuncte River	west of Wilmer, downstream of bridge on LA Hwy 10	40801	11/20/2002	9:30:00 AM	AE25692	5.3	ND	45.2	3.1		9.2	11.5	5.49	30	9	9.2		ND	0.81	0.51	3	0.11
				10/22/2003	10:40:00 AM	AF24153	5	3.2	37.6			6.5	8.4		22	4	4.3		ND	0.84	0.19	ND	0.08
				1/28/2004	10:45:00 AM	AG02264	5.3	ND	48.6			8.2	10.8		23.3	ND	7.1		0.23	0.85	0.85	3.6	0.11
				3/11/2004	9:10:00 AM	AG06041	5.1	ND	47.4			8.3	11.9		37.3	9	9.2		0.14	0.84	0.35	2.7	0.07
0496	Crittenden Creek	north of Greensburg, upstream of bridge on LA Hwy 441	40501			AF04751	4	ND	34.1	2.4		7.1	8.3	6.38	34	6.3	7.8		ND	0.18	ND	ND	0.07
				10/8/2003	2:25:00 PM	AF22958	4.1	ND	32.7	3		6.9	7.2	7.36	30	5	4.2	25	ND	0.19	ND	ND	0.07
				3/11/2004	9:10:00 AM	AG06103	3.7	ND	34.9			7.8	9.5	6.78	ND	8	9.2		ND	0.19	0.2	3.3	0.07
0497						AF04756	3.7	ND	35.2	3.5		7.9	7.9		36.7	16.5	15		ND	0.07	ND	ND	0.07
				1/29/2003	9:35:00 AM	AF01857	4.1	ND	31.9	3.7		8	7.7	6.56	22	4.5	6		ND	0.07	ND	ND	0.07
				10/8/2003	3:35:00 PM	AF22968	3.9	ND	30.6	3.4		7.6	7.8	6.8	38.7	31	13	15	ND	0.08	0.21	ND	0.08
				3/11/2004	9:10:00 AM	AG06107	3.7	1.3	34.5			7.5	8.2	6.76	17.3	7	9.7		ND	0.08	0.18	3	0.11
0498	Middle Fork Thopmson Creek	north of Jackson, downstream of bridge on LA Hwy 421	70502			AF04766	5.9	5.6	60.5	5.4		12.3	12.9	6.6	46	6.5	7.1		ND	ND	ND	ND	ND
				11/20/2002	10:30:00 AM	AE25707	6.4	4.3	60.8	6.6		15.3	15		50.7	ND	3.9		ND	0.09	0.21	ND	0.05
				10/22/2003	10:30:00 AM	AF24158	7.6	2.6	66.4	7.5		17.7	13.9	6.61	52.7	4	2.5		ND	0.05	ND	ND	0.07
				1/28/2004	11:15:00 AM	AG02269	4.7	4.7	52.7	4.1		8.9	11.3	NR	42.7	7	26		ND	0.2	0.56	4.2	0.07
0525	West Fork Thompson Creek	north of Jackson, upstream of bridge on Laurel Hill Creek Rd./Harris Conner Rd.	70502			AF04771	6.7	9.6	90.7	7.7		23.5	22.2	6.8	132	11	10		ND	ND	0.16	2.2	0.09
				11/20/2002	11:45:00 AM	AE25712	8.7	7.3	107	12.6		32.8	24.7	6.26	76	4	6.5		ND	0.44	0.41	2.3	0.06
				10/22/2003	9:45:00 AM	AF24163	8.3	4.3	93.7	10.6		30.4	21.1		66.7	ND	2.9		ND	0.1	0.19	2.2	0.06
				1/28/2004	10:05:00 AM	AG02274	5.7	7.6	84.8	6.6		17.6	20.1	6.58	65.3	9.5	26		ND	0.5	0.32	5.6	0.13
				1/28/2004	10:05:00 AM	AG02279	5.6	7.8	85.3	6.6		17.5	20.4	6.61	58.7	8	27		ND	0.5	0.27	5.3	0.06
0526	Little Comite Creek	northeast of Norwood, downstream of bridge on Parish Rd, 1 mi east of LA Hwy 19	40101			AF04776	8.7	2.3	66	6.7		13.7	14.5	6.5	47.3	10.5	10.1		ND	0.24	0.27	2	0.09
				11/20/2002	9:05:00 AM	AE25717	8.9	1.8	67.2	7.3		14.6	15.2	6.02	55.3	ND	6.9		ND	0.45	0.51	2.3	0.1
				10/22/2003	11:30:00 AM	AF24173	9.1	1.7	60.1	7.8		12	11.9	6.25	46.7	5.5	6.3		ND	0.37	0.49	2.2	0.07
				1/28/2004	12:50:00 PM	AG02284	7.3	2.9	65.5	5.4		11.2	14.4	6.57	53.3	5	19		ND	0.42	0.85	5.7	0.08
0527	Bogue Falaya River	north of Folsum, downstream of bridge on Joseph Road	40804	10/22/2003	12:45:00 PM	AF24183	3.9	ND	25.7	2.4		4.6	5.9	6.39	24.7	5.5	3.3		ND	0.07	0.33	3.1	ND
				1/28/2004	10:00:00 AM	AG02289	4.5	ND	29.6	2.4		4	6.9	6.44	ND	ND	3.8		0.12	0.07	0.51	4.7	ND
				3/11/2004	9:10:00 AM	AG06111	3.9	ND	27.5			4.4	6.6	6.86	29.3	ND	4.5		ND	0.06	0.19	6.1	ND

Appendix F – Survey Data Measurements and Analysis Results

Appendix F1 – Water Quality Data

ES Site #	LDEQ Site #	RKM	Alkalinity (mg/L)	True Color (PCU)	Specific Conductance (µmhos/cm)	Turbidity (NTU)	TSS (mg/L)	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Sodium (mg/L)	TKN (mg/L)	Total Phosphorus (mg/L)	Nitrate+Nitrite Nitrogen (mg/L)	Ammonia-Nitrogen (mg/L)	Hardness (mg/L)	Chlorophyll a (µg/L)	TOC (mg/L)	UNBOD (mg/L)	UCBOD (mg/L)	TOC/UCBOD
BL01	2270	31.0	8.1	60	52.4	10.2	6.0	44.0	5.6	5.3	7.1	0.16	ND	0.08	ND	13.1	ND	5.0	0	1.53	3.27
BL02	1250	25.2	5.7	37	61.4	6.8	ND	52.0	5.5	9.7	6.3	0.11	ND	0.10	ND	16.0	ND	4.3	0.023	1.318	3.26
BL03	3690	20.3	6.4	40	60.3	8.0	4.0	52.7	5.7	9.3	6.5	0.19	ND	0.10	ND	15.4	ND	4.4	0.388	2.393	1.84
UNT01	3691	trib	13.1	65	62.9	15.8	41.0	51.3	7.4	3.0	7.3	0.31	0.06	ND	ND	18.1	NM	6.9	0.137	3.887	1.78
BL04	3692	18.9	6.7	42	59.6	6.7	4.0	51.3	5.7	9.0	6.3	0.10	ND	0.09	ND	16.2	ND	4.4	0.073	2.424	1.82
BL05	3693	13.2	54.5	120	10110	24.4	4.0	6540	3247	452	1840	0.72	0.07	0.07	0.72	1210	10.6	15.3	2.799	8.253	1.85
BL06	300	10.9	55.8	120	10860	14.0	13.0	6560	3514	464	1970	1.06	0.07	ND	0.27	1258	11.3	18.4	2.690	9.511	1.93
BB02	3842	2.0	39.6	60	363	6.7	4.5	200	79.9	10.1	57.6	0.36	0.07	ND	ND	38.8	NM	7.6	0.492	5.801	1.31
BB03 @	3843 @	5.2	28.7	55	97.7	10.3	9.0	72.7	10.4	2.8	12.6	0.15	0.08	ND	ND	24.6	2.6	5.4	0.046	2.684	2.01
BB01	3694	0.3	60.6	200	10210	13.4	12.0	6160	3278	433	1880	1.21	0.10	ND	0.52	997	26.2	19.6	3.202	11.159	1.76
BL07	3695	8.7	67.4	180	11430	25.7	10.0	6660	3643	486	2120	1.54	0.13	ND	0.74	1128	20.2	18.9	2.761	10.724	1.76
CB03	3883	4.9	105	320	292	89.1	61.0	245	22.5	5.5	58.2	1.72	0.94	0.06	ND	31.6	24.6	18.0	2.553	16.385	1.10
CB02	3882	2.9	56.5	210	5930	20.2	10.0	3420	1868	198	1040	1.31	0.14	ND	ND	562	NM	29.8	2.086	19.93	1.50
CB01	3696	0.2	54.5	110	9320	8.2	7.0	5590	2965	386	1650	0.83	0.06	ND	ND	1053	20.6	17.3	1337	9.958	1.74
BL08	3697	6.1	53.7	120	9290	7.4	6.0	5450	2977	385	1650	0.54	ND	ND	ND	1065	17.2	17.0	1.388	9.975	1.70
BL09	3698	0.3	67.6	55	12470	25.7	39.0	7840	4093	546	2270	0.54	0.09	0.05	ND	1472	11.7	11.0	1.679	7.19	1.53
LP01	3699	Lk Pont.	62.9	32	12580	15.5	26.0	7880	4128	538	2270	0.51	0.07	ND	ND	1480	8.3	8.2	1.166	5.012	1.64
DS01	AI31079*	facility	195	65	542	9.6	9.0	346	23.5	23.6	109	3.33	4.00	5.01	0.75	38.9	NM	16.4	*	*	*

*Did not use BOD lab data due to suspect BOD graphs.

@Due to spreadsheet error, the UCBOD was obtained by summing UCBOD1 and UCBOD2.

ND=Non Detect

NM=No measurement

Collection_Date	Collection_Time	Site_ID	Lab_Sample_Type	Analyte	Result	Qualifier	Units
10/08/2008	11:40	0300	TRG	Alkalinity	55.8		mg/L
10/08/2008	11:40	0300	TRG	True Color	120	D	PCU
10/08/2008	11:40	0300	TRG	Specific Conductance	10860		umhos/cm
10/08/2008	11:40	0300	TRG	Turbidity	14.0		NTU
10/08/2008	11:40	0300	TRG	TSS	13.0		mg/L
10/08/2008	11:40	0300	TRG	TDS	6560		mg/L
10/08/2008	11:40	0300	TRG	Chloride by IC	3514	D	mg/L
10/08/2008	11:40	0300	TRG	Sulfate	464	D	mg/L
10/08/2008	11:40	0300	TRG	Sodium	1970	D	mg/L
10/08/2008	11:40	0300	TRG	TKN	1.06		mg/L
10/08/2008	11:40	0300	TRG	TP	0.07		mg/L
10/08/2008	11:40	0300	TRG	Nitrate+Nitrite Nitrogen		U	mg/L
10/08/2008	11:40	0300	TRG	Ammonia-Nitrogen	0.27		mg/L
10/08/2008	11:40	0300	TRG	Hardness	1258	D	mg/L
10/08/2008	11:40	0300	TRG	TOC	18.4		mg/L
10/08/2008	11:40	0300	TRG	Non-Filtered BOD 60 - Reading 1	0.9		mg/L
10/08/2008	11:40	0300	TRG	Non-Filtered BOD 60 - Reading 2	1.7		mg/L
10/08/2008	11:40	0300	TRG	Non-Filtered BOD 60 - Reading 3	2.5		mg/L
10/08/2008	11:40	0300	TRG	Non-Filtered BOD 60 - Reading 4	3.4		mg/L
10/08/2008	11:40	0300	TRG	Non-Filtered BOD 60 - Reading 5	4.5		mg/L
10/08/2008	11:40	0300	TRG	Non-Filtered BOD 60 - Reading 6	6.4		mg/L
10/08/2008	11:40	0300	TRG	Non-Filtered BOD 60 - Reading 7	8.0		mg/L
10/08/2008	11:40	0300	TRG	Non-Filtered BOD 60 - Reading 8	9.8		mg/L
10/08/2008	11:40	0300	TRG	Non-Filtered BOD 60 - Reading 9	10.6		mg/L
10/08/2008	11:40	0300	TRG	Non-Filtered BOD 60 - Final	11.6		mg/L
10/08/2008	11:40	0300	TRG	NO2NO3 - Initial Reading	0.12		mg/L
10/08/2008	11:40	0300	TRG	NO2NO3 - Reading 1	0.15		mg/L
10/08/2008	11:40	0300	TRG	NO2NO3 - Reading 2	0.14		mg/L
10/08/2008	11:40	0300	TRG	NO2NO3 - Reading 3	0.15		mg/L
10/08/2008	11:40	0300	TRG	NO2NO3 - Reading 4	0.16		mg/L
10/08/2008	11:40	0300	TRG	NO2NO3 - Reading 5	0.13		mg/L
10/08/2008	11:40	0300	TRG	NO2NO3 - Reading 6	0.32		mg/L
10/08/2008	11:40	0300	TRG	NO2NO3 - Reading 7	0.53		mg/L
10/08/2008	11:40	0300	TRG	NO2NO3 - Reading 8	0.65		mg/L
10/08/2008	11:40	0300	TRG	NO2NO3 - Reading 9	0.67		mg/L

10/08/2008	11:40	0300	TRG	NO2NO3 - Final	0.70		mg/L
10/08/2008	11:40	0300	TRG	TKN (60 Day BOD)	0.36		mg/L
10/08/2008	11:40	0300	TRG	TOC (60 Day BOD)	14.1		mg/L
10/08/2008	11:40	0300	TRG	pH, Ultimate BOD survey	7.34		pH units
10/08/2008	11:40	0300	TRG	Chlorophyll A (calculated)	11.3	D	ug/L
10/08/2008	13:15	1250	TRG	Alkalinity	5.7		mg/L
10/08/2008	13:15	1250	TRG	True Color	37		PCU
10/08/2008	13:15	1250	TRG	Specific Conductance	61.4		umhos/cm
10/08/2008	13:15	1250	TRG	Turbidity	6.8		NTU
10/08/2008	13:15	1250	TRG	TSS		U	mg/L
10/08/2008	13:15	1250	TRG	TDS	52.0		mg/L
10/08/2008	13:15	1250	TRG	Chloride by IC	5.5		mg/L
10/08/2008	13:15	1250	TRG	Sulfate	9.7		mg/L
10/08/2008	13:15	1250	TRG	Sodium	6.3		mg/L
10/08/2008	13:15	1250	TRG	TKN	0.11		mg/L
10/08/2008	13:15	1250	TRG	TP		U	mg/L
10/08/2008	13:15	1250	TRG	Nitrate+Nitrite Nitrogen	0.10		mg/L
10/08/2008	13:15	1250	TRG	Ammonia-Nitrogen		U	mg/L
10/08/2008	13:15	1250	TRG	Hardness	16.0		mg/L
10/08/2008	13:15	1250	TRG	TOC	4.3		mg/L
10/08/2008	13:15	1250	TRG	Non-Filtered BOD 60 - Reading 1		U	mg/L
10/08/2008	13:15	1250	TRG	Non-Filtered BOD 60 - Reading 2	0.1		mg/L
10/08/2008	13:15	1250	TRG	Non-Filtered BOD 60 - Reading 3	0.1		mg/L
10/08/2008	13:15	1250	TRG	Non-Filtered BOD 60 - Reading 4	0.2		mg/L
10/08/2008	13:15	1250	TRG	Non-Filtered BOD 60 - Reading 5	0.6		mg/L
10/08/2008	13:15	1250	TRG	Non-Filtered BOD 60 - Reading 6	0.6		mg/L
10/08/2008	13:15	1250	TRG	Non-Filtered BOD 60 - Reading 7	0.6		mg/L
10/08/2008	13:15	1250	TRG	Non-Filtered BOD 60 - Reading 8	0.9		mg/L
10/08/2008	13:15	1250	TRG	Non-Filtered BOD 60 - Reading 9	1.1		mg/L
10/08/2008	13:15	1250	TRG	Non-Filtered BOD 60 - Final	1.1		mg/L
10/08/2008	13:15	1250	TRG	NO2NO3 - Initial Reading	0.11		mg/L
10/08/2008	13:15	1250	TRG	NO2NO3 - Reading 1	0.14		mg/L
10/08/2008	13:15	1250	TRG	NO2NO3 - Reading 2	0.11		mg/L
10/08/2008	13:15	1250	TRG	NO2NO3 - Reading 3	0.11		mg/L
10/08/2008	13:15	1250	TRG	NO2NO3 - Reading 4	0.12		mg/L
10/08/2008	13:15	1250	TRG	NO2NO3 - Reading 5	0.09		mg/L
10/08/2008	13:15	1250	TRG	NO2NO3 - Reading 6	0.09		mg/L

10/08/2008	13:15	1250	TRG	NO2NO3 - Reading 7	0.09		mg/L
10/08/2008	13:15	1250	TRG	NO2NO3 - Reading 8	0.10		mg/L
10/08/2008	13:15	1250	TRG	NO2NO3 - Reading 9	0.11		mg/L
10/08/2008	13:15	1250	TRG	NO2NO3 - Final	0.12		mg/L
10/08/2008	13:15	1250	TRG	TKN (60 Day BOD)		U	mg/L
10/08/2008	13:15	1250	TRG	TOC (60 Day BOD)	3.2		mg/L
10/08/2008	13:15	1250	TRG	pH, Ultimate BOD survey	6.83		pH units
10/08/2008	13:15	1250	TRG	Chlorophyll A (calculated)		U	ug/L
10/08/2008	11:40	2270	TRG	Alkalinity	8.1		mg/L
10/08/2008	11:40	2270	TRG	True Color	60		PCU
10/08/2008	11:40	2270	TRG	Specific Conductance	52.4		umhos/cm
10/08/2008	11:40	2270	TRG	Turbidity	10.2		NTU
10/08/2008	11:40	2270	TRG	TSS	6.0		mg/L
10/08/2008	11:40	2270	TRG	TDS	44.0		mg/L
10/08/2008	11:40	2270	TRG	Chloride by IC	5.6		mg/L
10/08/2008	11:40	2270	TRG	Sulfate	5.3		mg/L
10/08/2008	11:40	2270	TRG	Sodium	7.1		mg/L
10/08/2008	11:40	2270	TRG	TKN	0.16		mg/L
10/08/2008	11:40	2270	TRG	TP		U	mg/L
10/08/2008	11:40	2270	TRG	Nitrate+Nitrite Nitrogen	0.08		mg/L
10/08/2008	11:40	2270	TRG	Ammonia-Nitrogen		U	mg/L
10/08/2008	11:40	2270	TRG	Hardness	13.1		mg/L
10/08/2008	11:40	2270	TRG	TOC	5.0		mg/L
10/08/2008	11:40	2270	TRG	Non-Filtered BOD 60 - Reading 1		U	mg/L
10/08/2008	11:40	2270	TRG	Non-Filtered BOD 60 - Reading 2		U	mg/L
10/08/2008	11:40	2270	TRG	Non-Filtered BOD 60 - Reading 3		U	mg/L
10/08/2008	11:40	2270	TRG	Non-Filtered BOD 60 - Reading 4	0.2		mg/L
10/08/2008	11:40	2270	TRG	Non-Filtered BOD 60 - Reading 5	0.6		mg/L
10/08/2008	11:40	2270	TRG	Non-Filtered BOD 60 - Reading 6	0.6		mg/L
10/08/2008	11:40	2270	TRG	Non-Filtered BOD 60 - Reading 7	0.7		mg/L
10/08/2008	11:40	2270	TRG	Non-Filtered BOD 60 - Reading 8	1.0		mg/L
10/08/2008	11:40	2270	TRG	Non-Filtered BOD 60 - Reading 9	1.2		mg/L
10/08/2008	11:40	2270	TRG	Non-Filtered BOD 60 - Final	1.3		mg/L
10/08/2008	11:40	2270	TRG	NO2NO3 - Initial Reading	0.09		mg/L
10/08/2008	11:40	2270	TRG	NO2NO3 - Reading 1	0.11		mg/L
10/08/2008	11:40	2270	TRG	NO2NO3 - Reading 2	0.08		mg/L
10/08/2008	11:40	2270	TRG	NO2NO3 - Reading 3	0.09		mg/L

10/08/2008	11:40	2270	TRG	NO2NO3 - Reading 4	0.09		mg/L
10/08/2008	11:40	2270	TRG	NO2NO3 - Reading 5	0.07		mg/L
10/08/2008	11:40	2270	TRG	NO2NO3 - Reading 6	0.07		mg/L
10/08/2008	11:40	2270	TRG	NO2NO3 - Reading 7	0.07		mg/L
10/08/2008	11:40	2270	TRG	NO2NO3 - Reading 8	0.08		mg/L
10/08/2008	11:40	2270	TRG	NO2NO3 - Reading 9	0.09		mg/L
10/08/2008	11:40	2270	TRG	NO2NO3 - Final	0.09		mg/L
10/08/2008	11:40	2270	TRG	TKN (60 Day BOD)		U	mg/L
10/08/2008	11:40	2270	TRG	TOC (60 Day BOD)	3.6		mg/L
10/08/2008	11:40	2270	TRG	pH, Ultimate BOD survey	7.19		pH units
10/08/2008	11:40	2270	TRG	Chlorophyll A (calculated)		U	ug/L
10/08/2008	10:15	3690	TRG	Alkalinity	6.4		mg/L
10/08/2008	10:15	3690	TRG	True Color	40		PCU
10/08/2008	10:15	3690	TRG	Specific Conductance	60.3		umhos/cm
10/08/2008	10:15	3690	TRG	Turbidity	8.0		NTU
10/08/2008	10:15	3690	TRG	TSS	4.0		mg/L
10/08/2008	10:15	3690	TRG	TDS	52.7		mg/L
10/08/2008	10:15	3690	TRG	Chloride by IC	5.7		mg/L
10/08/2008	10:15	3690	TRG	Sulfate	9.3		mg/L
10/08/2008	10:15	3690	TRG	Sodium	6.5		mg/L
10/08/2008	10:15	3690	TRG	TKN	0.19		mg/L
10/08/2008	10:15	3690	TRG	TP		U	mg/L
10/08/2008	10:15	3690	TRG	Nitrate+Nitrite Nitrogen	0.10		mg/L
10/08/2008	10:15	3690	TRG	Ammonia-Nitrogen		U	mg/L
10/08/2008	10:15	3690	TRG	Hardness	15.4		mg/L
10/08/2008	10:15	3690	TRG	TOC	4.4		mg/L
10/08/2008	10:15	3690	TRG	Non-Filtered BOD 60 - Reading 1	0.1		mg/L
10/08/2008	10:15	3690	TRG	Non-Filtered BOD 60 - Reading 2	0.3		mg/L
10/08/2008	10:15	3690	TRG	Non-Filtered BOD 60 - Reading 3	0.5		mg/L
10/08/2008	10:15	3690	TRG	Non-Filtered BOD 60 - Reading 4	0.7		mg/L
10/08/2008	10:15	3690	TRG	Non-Filtered BOD 60 - Reading 5	1.2		mg/L
10/08/2008	10:15	3690	TRG	Non-Filtered BOD 60 - Reading 6	1.3		mg/L
10/08/2008	10:15	3690	TRG	Non-Filtered BOD 60 - Reading 7	1.5		mg/L
10/08/2008	10:15	3690	TRG	Non-Filtered BOD 60 - Reading 8	2.1		mg/L
10/08/2008	10:15	3690	TRG	Non-Filtered BOD 60 - Reading 9	2.3		mg/L
10/08/2008	10:15	3690	TRG	Non-Filtered BOD 60 - Final	2.4		mg/L
10/08/2008	10:15	3690	TRG	NO2NO3 - Initial Reading	0.10		mg/L

10/08/2008	10:15	3690	TRG	NO2NO3 - Reading 1	0.09		mg/L
10/08/2008	10:15	3690	TRG	NO2NO3 - Reading 2	0.11		mg/L
10/08/2008	10:15	3690	TRG	NO2NO3 - Reading 3	0.11		mg/L
10/08/2008	10:15	3690	TRG	NO2NO3 - Reading 4	0.12		mg/L
10/08/2008	10:15	3690	TRG	NO2NO3 - Reading 5	0.09		mg/L
10/08/2008	10:15	3690	TRG	NO2NO3 - Reading 6	0.09		mg/L
10/08/2008	10:15	3690	TRG	NO2NO3 - Reading 7	0.10		mg/L
10/08/2008	10:15	3690	TRG	NO2NO3 - Reading 8	0.14		mg/L
10/08/2008	10:15	3690	TRG	NO2NO3 - Reading 9	0.16		mg/L
10/08/2008	10:15	3690	TRG	NO2NO3 - Final	0.16		mg/L
10/08/2008	10:15	3690	TRG	TKN (60 Day BOD)	0.12		mg/L
10/08/2008	10:15	3690	TRG	TOC (60 Day BOD)	3.5		mg/L
10/08/2008	10:15	3690	TRG	pH, Ultimate BOD survey	6.50		pH units
10/08/2008	10:15	3690	TRG	Chlorophyll A (calculated)		U	ug/L
10/08/2008	08:30	3691	TRG	Alkalinity	13.1		mg/L
10/08/2008	08:30	3691	TRG	True Color	65		PCU
10/08/2008	08:30	3691	TRG	Specific Conductance	62.9		umhos/cm
10/08/2008	08:30	3691	TRG	Turbidity	15.8		NTU
10/08/2008	08:30	3691	TRG	TSS	41.0		mg/L
10/08/2008	08:30	3691	TRG	TDS	51.3		mg/L
10/08/2008	08:30	3691	TRG	Chloride by IC	7.4		mg/L
10/08/2008	08:30	3691	TRG	Sulfate	3.0		mg/L
10/08/2008	08:30	3691	TRG	Sodium	7.3		mg/L
10/08/2008	08:30	3691	TRG	TKN	0.31		mg/L
10/08/2008	08:30	3691	TRG	TP	0.06		mg/L
10/08/2008	08:30	3691	TRG	Nitrate+Nitrite Nitrogen		U	mg/L
10/08/2008	08:30	3691	TRG	Ammonia-Nitrogen		U	mg/L
10/08/2008	08:30	3691	TRG	Hardness	18.1		mg/L
10/08/2008	08:30	3691	TRG	TOC	6.9		mg/L
10/08/2008	08:30	3691	TRG	Non-Filtered BOD 60 - Reading 1	0.1		mg/L
10/08/2008	08:30	3691	TRG	Non-Filtered BOD 60 - Reading 2	0.4		mg/L
10/08/2008	08:30	3691	TRG	Non-Filtered BOD 60 - Reading 3	0.6		mg/L
10/08/2008	08:30	3691	TRG	Non-Filtered BOD 60 - Reading 4	1.0		mg/L
10/08/2008	08:30	3691	TRG	Non-Filtered BOD 60 - Reading 5	1.7		mg/L
10/08/2008	08:30	3691	TRG	Non-Filtered BOD 60 - Reading 6	2.1		mg/L
10/08/2008	08:30	3691	TRG	Non-Filtered BOD 60 - Reading 7	2.6		mg/L
10/08/2008	08:30	3691	TRG	Non-Filtered BOD 60 - Reading 8	3.1		mg/L

10/08/2008	08:30	3691	TRG	Non-Filtered BOD 60 - Reading 9	3.5		mg/L
10/08/2008	08:30	3691	TRG	Non-Filtered BOD 60 - Final	3.8		mg/L
10/08/2008	08:30	3691	TRG	NO2NO3 - Initial Reading	0.06		mg/L
10/08/2008	08:30	3691	TRG	NO2NO3 - Reading 1	0.11		mg/L
10/08/2008	08:30	3691	TRG	NO2NO3 - Reading 2		U	mg/L
10/08/2008	08:30	3691	TRG	NO2NO3 - Reading 3	0.05		mg/L
10/08/2008	08:30	3691	TRG	NO2NO3 - Reading 4	0.05		mg/L
10/08/2008	08:30	3691	TRG	NO2NO3 - Reading 5		U	mg/L
10/08/2008	08:30	3691	TRG	NO2NO3 - Reading 6	0.07		mg/L
10/08/2008	08:30	3691	TRG	NO2NO3 - Reading 7	0.09		mg/L
10/08/2008	08:30	3691	TRG	NO2NO3 - Reading 8	0.09		mg/L
10/08/2008	08:30	3691	TRG	NO2NO3 - Reading 9	0.09		mg/L
10/08/2008	08:30	3691	TRG	NO2NO3 - Final	0.09		mg/L
10/08/2008	08:30	3691	TRG	TKN (60 Day BOD)	0.13		mg/L
10/08/2008	08:30	3691	TRG	TOC (60 Day BOD)	3.8		mg/L
10/08/2008	08:30	3691	TRG	pH, Ultimate BOD survey	6.63		pH units
10/08/2008	07:45	3692	TRG	Alkalinity	6.7		mg/L
10/08/2008	07:45	3692	TRG	True Color	42		PCU
10/08/2008	07:45	3692	TRG	Specific Conductance	59.6		umhos/cm
10/08/2008	07:45	3692	TRG	Turbidity	6.7		NTU
10/08/2008	07:45	3692	TRG	TSS	4.0		mg/L
10/08/2008	07:45	3692	TRG	TDS	51.3		mg/L
10/08/2008	07:45	3692	TRG	Chloride by IC	5.7		mg/L
10/08/2008	07:45	3692	TRG	Sulfate	9.0		mg/L
10/08/2008	07:45	3692	TRG	Sodium	6.3		mg/L
10/08/2008	07:45	3692	TRG	TKN	0.10		mg/L
10/08/2008	07:45	3692	TRG	TP		U	mg/L
10/08/2008	07:45	3692	TRG	Nitrate+Nitrite Nitrogen	0.09		mg/L
10/08/2008	07:45	3692	TRG	Ammonia-Nitrogen		U	mg/L
10/08/2008	07:45	3692	TRG	Hardness	16.2		mg/L
10/08/2008	07:45	3692	TRG	TOC	4.4		mg/L
10/08/2008	07:45	3692	TRG	Non-Filtered BOD 60 - Reading 1		U	mg/L
10/08/2008	07:45	3692	TRG	Non-Filtered BOD 60 - Reading 2	0.3		mg/L
10/08/2008	07:45	3692	TRG	Non-Filtered BOD 60 - Reading 3	0.4		mg/L
10/08/2008	07:45	3692	TRG	Non-Filtered BOD 60 - Reading 4	0.5		mg/L
10/08/2008	07:45	3692	TRG	Non-Filtered BOD 60 - Reading 5	0.9		mg/L
10/08/2008	07:45	3692	TRG	Non-Filtered BOD 60 - Reading 6	1.0		mg/L

10/08/2008	07:45	3692	TRG	Non-Filtered BOD 60 - Reading 7	1.2		mg/L
10/08/2008	07:45	3692	TRG	Non-Filtered BOD 60 - Reading 8	1.7		mg/L
10/08/2008	07:45	3692	TRG	Non-Filtered BOD 60 - Reading 9	2.0		mg/L
10/08/2008	07:45	3692	TRG	Non-Filtered BOD 60 - Final	2.1		mg/L
10/08/2008	07:45	3692	TRG	NO2NO3 - Initial Reading	0.10		mg/L
10/08/2008	07:45	3692	TRG	NO2NO3 - Reading 1	0.05		mg/L
10/08/2008	07:45	3692	TRG	NO2NO3 - Reading 2	0.09		mg/L
10/08/2008	07:45	3692	TRG	NO2NO3 - Reading 3	0.10		mg/L
10/08/2008	07:45	3692	TRG	NO2NO3 - Reading 4	0.10		mg/L
10/08/2008	07:45	3692	TRG	NO2NO3 - Reading 5	0.08		mg/L
10/08/2008	07:45	3692	TRG	NO2NO3 - Reading 6	0.08		mg/L
10/08/2008	07:45	3692	TRG	NO2NO3 - Reading 7	0.09		mg/L
10/08/2008	07:45	3692	TRG	NO2NO3 - Reading 8	0.11		mg/L
10/08/2008	07:45	3692	TRG	NO2NO3 - Reading 9	0.12		mg/L
10/08/2008	07:45	3692	TRG	NO2NO3 - Final	0.11		mg/L
10/08/2008	07:45	3692	TRG	TKN (60 Day BOD)		U	mg/L
10/08/2008	07:45	3692	TRG	TOC (60 Day BOD)	3.3		mg/L
10/08/2008	07:45	3692	TRG	pH, Ultimate BOD survey	6.51		pH units
10/08/2008	07:45	3692	TRG	Chlorophyll A (calculated)		U	ug/L
10/08/2008	12:20	3693	TRG	Alkalinity	54.5		mg/L
10/08/2008	12:20	3693	TRG	True Color	120	D	PCU
10/08/2008	12:20	3693	TRG	Specific Conductance	10110		umhos/cm
10/08/2008	12:20	3693	TRG	Turbidity	24.4		NTU
10/08/2008	12:20	3693	TRG	TSS	4.0		mg/L
10/08/2008	12:20	3693	TRG	TDS	6540		mg/L
10/08/2008	12:20	3693	TRG	Chloride by IC	3247	D	mg/L
10/08/2008	12:20	3693	TRG	Sulfate	452	D	mg/L
10/08/2008	12:20	3693	TRG	Sodium	1840	D	mg/L
10/08/2008	12:20	3693	TRG	TKN	0.72		mg/L
10/08/2008	12:20	3693	TRG	TP	0.07		mg/L
10/08/2008	12:20	3693	TRG	Nitrate+Nitrite Nitrogen	0.07		mg/L
10/08/2008	12:20	3693	TRG	Ammonia-Nitrogen	0.72		mg/L
10/08/2008	12:20	3693	TRG	Hardness	1210	D	mg/L
10/08/2008	12:20	3693	TRG	TOC	15.3		mg/L
10/08/2008	12:20	3693	TRG	Non-Filtered BOD 60 - Reading 1	1.4		mg/L
10/08/2008	12:20	3693	TRG	Non-Filtered BOD 60 - Reading 2	2.0		mg/L
10/08/2008	12:20	3693	TRG	Non-Filtered BOD 60 - Reading 3	2.7		mg/L

10/08/2008	12:20	3693	TRG	Non-Filtered BOD 60 - Reading 4	3.2		mg/L
10/08/2008	12:20	3693	TRG	Non-Filtered BOD 60 - Reading 5	3.9		mg/L
10/08/2008	12:20	3693	TRG	Non-Filtered BOD 60 - Reading 6	4.6		mg/L
10/08/2008	12:20	3693	TRG	Non-Filtered BOD 60 - Reading 7	7.3		mg/L
10/08/2008	12:20	3693	TRG	Non-Filtered BOD 60 - Reading 8	8.2		mg/L
10/08/2008	12:20	3693	TRG	Non-Filtered BOD 60 - Reading 9	9.6		mg/L
10/08/2008	12:20	3693	TRG	Non-Filtered BOD 60 - Final	10.5		mg/L
10/08/2008	12:20	3693	TRG	NO2NO3 - Initial Reading	0.07		mg/L
10/08/2008	12:20	3693	TRG	NO2NO3 - Reading 1	0.09		mg/L
10/08/2008	12:20	3693	TRG	NO2NO3 - Reading 2	0.06		mg/L
10/08/2008	12:20	3693	TRG	NO2NO3 - Reading 3	0.07		mg/L
10/08/2008	12:20	3693	TRG	NO2NO3 - Reading 4	0.07		mg/L
10/08/2008	12:20	3693	TRG	NO2NO3 - Reading 5	0.05		mg/L
10/08/2008	12:20	3693	TRG	NO2NO3 - Reading 6	0.06		mg/L
10/08/2008	12:20	3693	TRG	NO2NO3 - Reading 7	0.39		mg/L
10/08/2008	12:20	3693	TRG	NO2NO3 - Reading 8	0.37		mg/L
10/08/2008	12:20	3693	TRG	NO2NO3 - Reading 9	0.58		mg/L
10/08/2008	12:20	3693	TRG	NO2NO3 - Final	0.62		mg/L
10/08/2008	12:20	3693	TRG	TKN (60 Day BOD)	0.36		mg/L
10/08/2008	12:20	3693	TRG	TOC (60 Day BOD)	12.3		mg/L
10/08/2008	12:20	3693	TRG	pH, Ultimate BOD survey	6.97		pH units
10/08/2008	12:20	3693	TRG	Chlorophyll A (calculated)	10.6	D	ug/L
10/08/2008	09:30	3694	TRG	Alkalinity	60.6		mg/L
10/08/2008	09:30	3694	TRG	True Color	200	D	PCU
10/08/2008	09:30	3694	TRG	Specific Conductance	10210		umhos/cm
10/08/2008	09:30	3694	TRG	Turbidity	13.4		NTU
10/08/2008	09:30	3694	TRG	TSS	12.0		mg/L
10/08/2008	09:30	3694	TRG	TDS	6160		mg/L
10/08/2008	09:30	3694	TRG	Chloride by IC	3278	D	mg/L
10/08/2008	09:30	3694	TRG	Sulfate	433	D	mg/L
10/08/2008	09:30	3694	TRG	Sodium	1880	D	mg/L
10/08/2008	09:30	3694	TRG	TKN	1.21	D	mg/L
10/08/2008	09:30	3694	TRG	TP	0.10		mg/L
10/08/2008	09:30	3694	TRG	Nitrate+Nitrite Nitrogen		U	mg/L
10/08/2008	09:30	3694	TRG	Ammonia-Nitrogen	0.52		mg/L
10/08/2008	09:30	3694	TRG	Hardness	997		mg/L
10/08/2008	09:30	3694	TRG	TOC	19.6		mg/L

10/08/2008	09:30	3694	TRG	Non-Filtered BOD 60 - Reading 1	0.9		mg/L
10/08/2008	09:30	3694	TRG	Non-Filtered BOD 60 - Reading 2	2.2		mg/L
10/08/2008	09:30	3694	TRG	Non-Filtered BOD 60 - Reading 3	3.4		mg/L
10/08/2008	09:30	3694	TRG	Non-Filtered BOD 60 - Reading 4	4.4		mg/L
10/08/2008	09:30	3694	TRG	Non-Filtered BOD 60 - Reading 5	5.7		mg/L
10/08/2008	09:30	3694	TRG	Non-Filtered BOD 60 - Reading 6	7.8		mg/L
10/08/2008	09:30	3694	TRG	Non-Filtered BOD 60 - Reading 7	9.4		mg/L
10/08/2008	09:30	3694	TRG	Non-Filtered BOD 60 - Reading 8	11.4		mg/L
10/08/2008	09:30	3694	TRG	Non-Filtered BOD 60 - Reading 9	12.4		mg/L
10/08/2008	09:30	3694	TRG	Non-Filtered BOD 60 - Final	13.5		mg/L
10/08/2008	09:30	3694	TRG	NO2NO3 - Initial Reading	0.06		mg/L
10/08/2008	09:30	3694	TRG	NO2NO3 - Reading 1		U	mg/L
10/08/2008	09:30	3694	TRG	NO2NO3 - Reading 2		U	mg/L
10/08/2008	09:30	3694	TRG	NO2NO3 - Reading 3		U	mg/L
10/08/2008	09:30	3694	TRG	NO2NO3 - Reading 4		U	mg/L
10/08/2008	09:30	3694	TRG	NO2NO3 - Reading 5		U	mg/L
10/08/2008	09:30	3694	TRG	NO2NO3 - Reading 6	0.18		mg/L
10/08/2008	09:30	3694	TRG	NO2NO3 - Reading 7	0.32		mg/L
10/08/2008	09:30	3694	TRG	NO2NO3 - Reading 8	0.53		mg/L
10/08/2008	09:30	3694	TRG	NO2NO3 - Reading 9	0.59		mg/L
10/08/2008	09:30	3694	TRG	NO2NO3 - Final	0.63		mg/L
10/08/2008	09:30	3694	TRG	TKN (60 Day BOD)	0.52		mg/L
10/08/2008	09:30	3694	TRG	TOC (60 Day BOD)	14.7		mg/L
10/08/2008	09:30	3694	TRG	pH, Ultimate BOD survey	6.87		pH units
10/08/2008	09:30	3694	TRG	Chlorophyll A (calculated)	26.2	D	ug/L
10/08/2008	10:45	3695	TRG	TOC	18.9		mg/L
10/08/2008	10:45	3695	TRG	Non-Filtered BOD 60 - Reading 1	0.6		mg/L
10/08/2008	10:45	3695	TRG	Non-Filtered BOD 60 - Reading 2	1.8		mg/L
10/08/2008	10:45	3695	TRG	Non-Filtered BOD 60 - Reading 3	2.9		mg/L
10/08/2008	10:45	3695	TRG	Non-Filtered BOD 60 - Reading 4	4.3		mg/L
10/08/2008	10:45	3695	TRG	Non-Filtered BOD 60 - Reading 5	6.7		mg/L
10/08/2008	10:45	3695	TRG	Non-Filtered BOD 60 - Reading 6	8.4		mg/L
10/08/2008	10:45	3695	TRG	Alkalinity	67.4		mg/L
10/08/2008	10:45	3695	TRG	True Color	180	D	PCU
10/08/2008	10:45	3695	TRG	Specific Conductance	11430		umhos/cm
10/08/2008	10:45	3695	TRG	Turbidity	25.7		NTU
10/08/2008	10:45	3695	TRG	TSS	10.0		mg/L

10/08/2008	10:45	3695	TRG	TDS	6660		mg/L
10/08/2008	10:45	3695	TRG	Chloride by IC	3643	D	mg/L
10/08/2008	10:45	3695	TRG	Sulfate	486	D	mg/L
10/08/2008	10:45	3695	TRG	Sodium	2120	D	mg/L
10/08/2008	10:45	3695	TRG	TKN	1.54	D	mg/L
10/08/2008	10:45	3695	TRG	TP	0.13		mg/L
10/08/2008	10:45	3695	TRG	Nitrate+Nitrite Nitrogen		U	mg/L
10/08/2008	10:45	3695	TRG	Ammonia-Nitrogen	0.74		mg/L
10/08/2008	10:45	3695	TRG	Hardness	1128		mg/L
10/08/2008	10:45	3695	TRG	Non-Filtered BOD 60 - Reading 7	9.9		mg/L
10/08/2008	10:45	3695	TRG	Non-Filtered BOD 60 - Reading 8	11.4		mg/L
10/08/2008	10:45	3695	TRG	Non-Filtered BOD 60 - Reading 9	12.3		mg/L
10/08/2008	10:45	3695	TRG	Non-Filtered BOD 60 - Final	13.3		mg/L
10/08/2008	10:45	3695	TRG	NO2NO3 - Initial Reading	0.06		mg/L
10/08/2008	10:45	3695	TRG	NO2NO3 - Reading 1		U	mg/L
10/08/2008	10:45	3695	TRG	NO2NO3 - Reading 2		U	mg/L
10/08/2008	10:45	3695	TRG	NO2NO3 - Reading 3		U	mg/L
10/08/2008	10:45	3695	TRG	NO2NO3 - Reading 4	0.06		mg/L
10/08/2008	10:45	3695	TRG	NO2NO3 - Reading 5	0.19		mg/L
10/08/2008	10:45	3695	TRG	NO2NO3 - Reading 6	0.41		mg/L
10/08/2008	10:45	3695	TRG	NO2NO3 - Reading 7	0.59		mg/L
10/08/2008	10:45	3695	TRG	NO2NO3 - Reading 8	0.63		mg/L
10/08/2008	10:45	3695	TRG	NO2NO3 - Reading 9	0.65		mg/L
10/08/2008	10:45	3695	TRG	NO2NO3 - Final	0.68		mg/L
10/08/2008	10:45	3695	TRG	TKN (60 Day BOD)	0.33		mg/L
10/08/2008	10:45	3695	TRG	TOC (60 Day BOD)	14.4		mg/L
10/08/2008	10:45	3695	TRG	pH, Ultimate BOD survey	7.34		pH units
10/08/2008	10:45	3695	TRG	Chlorophyll A (calculated)	20.2	D	ug/L
10/08/2008	11:10	3696	TRG	Alkalinity	54.5		mg/L
10/08/2008	11:10	3696	TRG	True Color	110	D	PCU
10/08/2008	11:10	3696	TRG	Specific Conductance	9320		umhos/cm
10/08/2008	11:10	3696	TRG	Turbidity	8.2		NTU
10/08/2008	11:10	3696	TRG	TSS	7.0		mg/L
10/08/2008	11:10	3696	TRG	TDS	5590		mg/L
10/08/2008	11:10	3696	TRG	Chloride by IC	2965	D	mg/L
10/08/2008	11:10	3696	TRG	Sulfate	386	D	mg/L
10/08/2008	11:10	3696	TRG	Sodium	1650	D	mg/L

10/08/2008	11:10	3696	TRG	TKN	0.83		mg/L
10/08/2008	11:10	3696	TRG	TP	0.06		mg/L
10/08/2008	11:10	3696	TRG	Nitrate+Nitrite Nitrogen		U	mg/L
10/08/2008	11:10	3696	TRG	Ammonia-Nitrogen		U	mg/L
10/08/2008	11:10	3696	TRG	Hardness	1053	D	mg/L
10/08/2008	11:10	3696	TRG	TOC	17.3		mg/L
10/08/2008	11:10	3696	TRG	Non-Filtered BOD 60 - Reading 1	0.7		mg/L
10/08/2008	11:10	3696	TRG	Non-Filtered BOD 60 - Reading 2	2.5		mg/L
10/08/2008	11:10	3696	TRG	Non-Filtered BOD 60 - Reading 3	3.5		mg/L
10/08/2008	11:10	3696	TRG	Non-Filtered BOD 60 - Reading 4	4.5		mg/L
10/08/2008	11:10	3696	TRG	Non-Filtered BOD 60 - Reading 5	5.5		mg/L
10/08/2008	11:10	3696	TRG	Non-Filtered BOD 60 - Reading 6	6.5		mg/L
10/08/2008	11:10	3696	TRG	Non-Filtered BOD 60 - Reading 7	8.0		mg/L
10/08/2008	11:10	3696	TRG	Non-Filtered BOD 60 - Reading 8	9.4		mg/L
10/08/2008	11:10	3696	TRG	Non-Filtered BOD 60 - Reading 9	10.3		mg/L
10/08/2008	11:10	3696	TRG	Non-Filtered BOD 60 - Final	11.3		mg/L
10/08/2008	11:10	3696	TRG	NO2NO3 - Initial Reading	0.06		mg/L
10/08/2008	11:10	3696	TRG	NO2NO3 - Reading 1		U	mg/L
10/08/2008	11:10	3696	TRG	NO2NO3 - Reading 2		U	mg/L
10/08/2008	11:10	3696	TRG	NO2NO3 - Reading 3		U	mg/L
10/08/2008	11:10	3696	TRG	NO2NO3 - Reading 4		U	mg/L
10/08/2008	11:10	3696	TRG	NO2NO3 - Reading 5		U	mg/L
10/08/2008	11:10	3696	TRG	NO2NO3 - Reading 6	0.05		mg/L
10/08/2008	11:10	3696	TRG	NO2NO3 - Reading 7	0.15		mg/L
10/08/2008	11:10	3696	TRG	NO2NO3 - Reading 8	0.29		mg/L
10/08/2008	11:10	3696	TRG	NO2NO3 - Reading 9	0.30		mg/L
10/08/2008	11:10	3696	TRG	NO2NO3 - Final	0.32		mg/L
10/08/2008	11:10	3696	TRG	TKN (60 Day BOD)	0.47		mg/L
10/08/2008	11:10	3696	TRG	TOC (60 Day BOD)	13.7		mg/L
10/08/2008	11:10	3696	TRG	pH, Ultimate BOD survey	7.03		pH units
10/08/2008	11:10	3696	TRG	Chlorophyll A (calculated)	20.6	D	ug/L
10/08/2008	10:40	3697	TRG	Alkalinity	53.7		mg/L
10/08/2008	10:40	3697	TRG	True Color	120	D	PCU
10/08/2008	10:40	3697	TRG	Specific Conductance	9290		umhos/cm
10/08/2008	10:40	3697	TRG	Turbidity	7.4		NTU
10/08/2008	10:40	3697	TRG	TSS	6.0		mg/L
10/08/2008	10:40	3697	TRG	TDS	5450		mg/L

10/08/2008	10:40	3697	TRG	Chloride by IC	2977	D	mg/L
10/08/2008	10:40	3697	TRG	Sulfate	385	D	mg/L
10/08/2008	10:40	3697	TRG	Sodium	1650	D	mg/L
10/08/2008	10:40	3697	TRG	TKN	0.54		mg/L
10/08/2008	10:40	3697	TRG	TP		U	mg/L
10/08/2008	10:40	3697	TRG	Nitrate+Nitrite Nitrogen		U	mg/L
10/08/2008	10:40	3697	TRG	Ammonia-Nitrogen		U	mg/L
10/08/2008	10:40	3697	TRG	Hardness	1065	D	mg/L
10/08/2008	10:40	3697	TRG	TOC	17.0		mg/L
10/08/2008	10:40	3697	TRG	Non-Filtered BOD 60 - Reading 1	0.7		mg/L
10/08/2008	10:40	3697	TRG	Non-Filtered BOD 60 - Reading 2	2.4		mg/L
10/08/2008	10:40	3697	TRG	Non-Filtered BOD 60 - Reading 3	3.4		mg/L
10/08/2008	10:40	3697	TRG	Non-Filtered BOD 60 - Reading 4	4.3		mg/L
10/08/2008	10:40	3697	TRG	Non-Filtered BOD 60 - Reading 5	5.2		mg/L
10/08/2008	10:40	3697	TRG	Non-Filtered BOD 60 - Reading 6	6.3		mg/L
10/08/2008	10:40	3697	TRG	Non-Filtered BOD 60 - Reading 7	7.7		mg/L
10/08/2008	10:40	3697	TRG	Non-Filtered BOD 60 - Reading 8	9.3		mg/L
10/08/2008	10:40	3697	TRG	Non-Filtered BOD 60 - Reading 9	10.2		mg/L
10/08/2008	10:40	3697	TRG	Non-Filtered BOD 60 - Final	11.2		mg/L
10/08/2008	10:40	3697	TRG	NO2NO3 - Initial Reading	0.06		mg/L
10/08/2008	10:40	3697	TRG	NO2NO3 - Reading 1		U	mg/L
10/08/2008	10:40	3697	TRG	NO2NO3 - Reading 2	0.06		mg/L
10/08/2008	10:40	3697	TRG	NO2NO3 - Reading 3	0.06		mg/L
10/08/2008	10:40	3697	TRG	NO2NO3 - Reading 4	0.06		mg/L
10/08/2008	10:40	3697	TRG	NO2NO3 - Reading 5		U	mg/L
10/08/2008	10:40	3697	TRG	NO2NO3 - Reading 6	0.06		mg/L
10/08/2008	10:40	3697	TRG	NO2NO3 - Reading 7	0.16		mg/L
10/08/2008	10:40	3697	TRG	NO2NO3 - Reading 8	0.26		mg/L
10/08/2008	10:40	3697	TRG	NO2NO3 - Reading 9	0.31		mg/L
10/08/2008	10:40	3697	TRG	NO2NO3 - Final	0.33		mg/L
10/08/2008	10:40	3697	TRG	TKN (60 Day BOD)	0.32		mg/L
10/08/2008	10:40	3697	TRG	TOC (60 Day BOD)	13.8		mg/L
10/08/2008	10:40	3697	TRG	pH, Ultimate BOD survey	7.16		pH units
10/08/2008	10:40	3697	TRG	Chlorophyll A (calculated)	17.2	D	ug/L
10/08/2008	09:45	3698	TRG	Alkalinity	67.6		mg/L
10/08/2008	09:45	3698	TRG	True Color	55		PCU
10/08/2008	09:45	3698	TRG	Specific Conductance	12470		umhos/cm

10/08/2008	09:45	3698	TRG	Turbidity	25.7		NTU
10/08/2008	09:45	3698	TRG	TSS	39.0		mg/L
10/08/2008	09:45	3698	TRG	TDS	7840		mg/L
10/08/2008	09:45	3698	TRG	Chloride by IC	4093	D	mg/L
10/08/2008	09:45	3698	TRG	Sulfate	546	D	mg/L
10/08/2008	09:45	3698	TRG	Sodium	2270	D	mg/L
10/08/2008	09:45	3698	TRG	TKN	0.54		mg/L
10/08/2008	09:45	3698	TRG	TP	0.09		mg/L
10/08/2008	09:45	3698	TRG	Nitrate+Nitrite Nitrogen	0.05		mg/L
10/08/2008	09:45	3698	TRG	Ammonia-Nitrogen		U	mg/L
10/08/2008	09:45	3698	TRG	Hardness	1472	D	mg/L
10/08/2008	09:45	3698	TRG	TOC	11.0		mg/L
10/08/2008	09:45	3698	TRG	Non-Filtered BOD 60 - Reading 1	0.6		mg/L
10/08/2008	09:45	3698	TRG	Non-Filtered BOD 60 - Reading 2	2.0		mg/L
10/08/2008	09:45	3698	TRG	Non-Filtered BOD 60 - Reading 3	2.7		mg/L
10/08/2008	09:45	3698	TRG	Non-Filtered BOD 60 - Reading 4	3.6		mg/L
10/08/2008	09:45	3698	TRG	Non-Filtered BOD 60 - Reading 5	4.9		mg/L
10/08/2008	09:45	3698	TRG	Non-Filtered BOD 60 - Reading 6	5.9		mg/L
10/08/2008	09:45	3698	TRG	Non-Filtered BOD 60 - Reading 7	7.1		mg/L
10/08/2008	09:45	3698	TRG	Non-Filtered BOD 60 - Reading 8	8.0		mg/L
10/08/2008	09:45	3698	TRG	Non-Filtered BOD 60 - Reading 9	8.6		mg/L
10/08/2008	09:45	3698	TRG	Non-Filtered BOD 60 - Final	9.0		mg/L
10/08/2008	09:45	3698	TRG	NO2NO3 - Initial Reading	0.06		mg/L
10/08/2008	09:45	3698	TRG	NO2NO3 - Reading 1	0.06		mg/L
10/08/2008	09:45	3698	TRG	NO2NO3 - Reading 2	0.06		mg/L
10/08/2008	09:45	3698	TRG	NO2NO3 - Reading 3	0.06		mg/L
10/08/2008	09:45	3698	TRG	NO2NO3 - Reading 4	0.08		mg/L
10/08/2008	09:45	3698	TRG	NO2NO3 - Reading 5	0.14		mg/L
10/08/2008	09:45	3698	TRG	NO2NO3 - Reading 6	0.24		mg/L
10/08/2008	09:45	3698	TRG	NO2NO3 - Reading 7	0.37		mg/L
10/08/2008	09:45	3698	TRG	NO2NO3 - Reading 8	0.40		mg/L
10/08/2008	09:45	3698	TRG	NO2NO3 - Reading 9	0.42		mg/L
10/08/2008	09:45	3698	TRG	NO2NO3 - Final	0.42		mg/L
10/08/2008	09:45	3698	TRG	TKN (60 Day BOD)	0.46		mg/L
10/08/2008	09:45	3698	TRG	TOC (60 Day BOD)	8.3		mg/L
10/08/2008	09:45	3698	TRG	pH, Ultimate BOD survey	7.39		pH units
10/08/2008	09:45	3698	TRG	Chlorophyll A (calculated)	11.7	D	ug/L

10/08/2008	09:15	3699	TRG	Alkalinity	62.9		mg/L
10/08/2008	09:15	3699	TRG	True Color	32		PCU
10/08/2008	09:15	3699	TRG	Specific Conductance	12580		umhos/cm
10/08/2008	09:15	3699	TRG	Turbidity	15.5		NTU
10/08/2008	09:15	3699	TRG	TSS	26.0		mg/L
10/08/2008	09:15	3699	TRG	TDS	7880		mg/L
10/08/2008	09:15	3699	TRG	Chloride by IC	4128	D	mg/L
10/08/2008	09:15	3699	TRG	Sulfate	538	D	mg/L
10/08/2008	09:15	3699	TRG	Sodium	2270	D	mg/L
10/08/2008	09:15	3699	TRG	TKN	0.51		mg/L
10/08/2008	09:15	3699	TRG	TP	0.07		mg/L
10/08/2008	09:15	3699	TRG	Nitrate+Nitrite Nitrogen		U	mg/L
10/08/2008	09:15	3699	TRG	Ammonia-Nitrogen		U	mg/L
10/08/2008	09:15	3699	TRG	Hardness	1480	D	mg/L
10/08/2008	09:15	3699	TRG	TOC	8.2		mg/L
10/08/2008	09:15	3699	TRG	Non-Filtered BOD 60 - Reading 1	0.5		mg/L
10/08/2008	09:15	3699	TRG	Non-Filtered BOD 60 - Reading 2	1.4		mg/L
10/08/2008	09:15	3699	TRG	Non-Filtered BOD 60 - Reading 3	1.9		mg/L
10/08/2008	09:15	3699	TRG	Non-Filtered BOD 60 - Reading 4	2.5		mg/L
10/08/2008	09:15	3699	TRG	Non-Filtered BOD 60 - Reading 5	3.4		mg/L
10/08/2008	09:15	3699	TRG	Non-Filtered BOD 60 - Reading 6	4.1		mg/L
10/08/2008	09:15	3699	TRG	Non-Filtered BOD 60 - Reading 7	4.8		mg/L
10/08/2008	09:15	3699	TRG	Non-Filtered BOD 60 - Reading 8	5.6		mg/L
10/08/2008	09:15	3699	TRG	Non-Filtered BOD 60 - Reading 9	6.0		mg/L
10/08/2008	09:15	3699	TRG	Non-Filtered BOD 60 - Final	6.3		mg/L
10/08/2008	09:15	3699	TRG	NO2NO3 - Initial Reading	0.06		mg/L
10/08/2008	09:15	3699	TRG	NO2NO3 - Reading 1	0.06		mg/L
10/08/2008	09:15	3699	TRG	NO2NO3 - Reading 2	0.06		mg/L
10/08/2008	09:15	3699	TRG	NO2NO3 - Reading 3	0.06		mg/L
10/08/2008	09:15	3699	TRG	NO2NO3 - Reading 4	0.07		mg/L
10/08/2008	09:15	3699	TRG	NO2NO3 - Reading 5	0.10		mg/L
10/08/2008	09:15	3699	TRG	NO2NO3 - Reading 6	0.18		mg/L
10/08/2008	09:15	3699	TRG	NO2NO3 - Reading 7	0.27		mg/L
10/08/2008	09:15	3699	TRG	NO2NO3 - Reading 8	0.30		mg/L
10/08/2008	09:15	3699	TRG	NO2NO3 - Reading 9	0.31		mg/L
10/08/2008	09:15	3699	TRG	NO2NO3 - Final	0.31		mg/L
10/08/2008	09:15	3699	TRG	TKN (60 Day BOD)	0.34		mg/L

10/08/2008	09:15	3699	TRG	TOC (60 Day BOD)	6.3		mg/L
10/08/2008	09:15	3699	TRG	pH, Ultimate BOD survey	7.52		pH units
10/08/2008	09:15	3699	TRG	Chlorophyll A (calculated)	8.3		ug/L
10/08/2008	09:30	3842	TRG	Non-Filtered BOD 60 - Reading 5	3.2		mg/L
10/08/2008	09:30	3842	TRG	Non-Filtered BOD 60 - Reading 6	3.8		mg/L
10/08/2008	09:30	3842	TRG	Non-Filtered BOD 60 - Reading 7	4.7		mg/L
10/08/2008	09:30	3842	TRG	Non-Filtered BOD 60 - Reading 8	5.4		mg/L
10/08/2008	09:30	3842	TRG	Non-Filtered BOD 60 - Reading 9	5.9		mg/L
10/08/2008	09:30	3842	TRG	Non-Filtered BOD 60 - Final	6.2		mg/L
10/08/2008	09:30	3842	TRG	NO2NO3 - Initial Reading	0.06		mg/L
10/08/2008	09:30	3842	TRG	NO2NO3 - Reading 1	0.05		mg/L
10/08/2008	09:30	3842	TRG	NO2NO3 - Reading 2		U	mg/L
10/08/2008	09:30	3842	TRG	NO2NO3 - Reading 3	0.05		mg/L
10/08/2008	09:30	3842	TRG	NO2NO3 - Reading 4		U	mg/L
10/08/2008	09:30	3842	TRG	NO2NO3 - Reading 5		U	mg/L
10/08/2008	09:30	3842	TRG	NO2NO3 - Reading 6	0.06		mg/L
10/08/2008	09:30	3842	TRG	NO2NO3 - Reading 7	0.13		mg/L
10/08/2008	09:30	3842	TRG	NO2NO3 - Reading 8	0.15		mg/L
10/08/2008	09:30	3842	TRG	NO2NO3 - Reading 9	0.16		mg/L
10/08/2008	09:30	3842	TRG	NO2NO3 - Final	0.17		mg/L
10/08/2008	09:30	3842	TRG	TKN (60 Day BOD)	0.13		mg/L
10/08/2008	09:30	3842	TRG	TOC (60 Day BOD)	5.4		mg/L
10/08/2008	09:30	3842	TRG	pH, Ultimate BOD survey	7.45		pH units
10/08/2008	09:30	3842	TRG	Alkalinity	39.6		mg/L
10/08/2008	09:30	3842	TRG	True Color	60		PCU
10/08/2008	09:30	3842	TRG	Specific Conductance	363		umhos/cm
10/08/2008	09:30	3842	TRG	Turbidity	6.7		NTU
10/08/2008	09:30	3842	TRG	TSS	4.5		mg/L
10/08/2008	09:30	3842	TRG	TDS	200		mg/L
10/08/2008	09:30	3842	TRG	Chloride by IC	79.9		mg/L
10/08/2008	09:30	3842	TRG	Sulfate	10.1		mg/L
10/08/2008	09:30	3842	TRG	Sodium	57.6		mg/L
10/08/2008	09:30	3842	TRG	TKN	0.36		mg/L
10/08/2008	09:30	3842	TRG	TP	0.07		mg/L
10/08/2008	09:30	3842	TRG	Nitrate+Nitrite Nitrogen		U	mg/L
10/08/2008	09:30	3842	TRG	Ammonia-Nitrogen		U	mg/L
10/08/2008	09:30	3842	TRG	Hardness	38.8		mg/L

10/08/2008	09:30	3842	TRG	TOC	7.6		mg/L
10/08/2008	09:30	3842	TRG	Non-Filtered BOD 60 - Reading 1	0.3		mg/L
10/08/2008	09:30	3842	TRG	Non-Filtered BOD 60 - Reading 2	1.4		mg/L
10/08/2008	09:30	3842	TRG	Non-Filtered BOD 60 - Reading 3	1.9		mg/L
10/08/2008	09:30	3842	TRG	Non-Filtered BOD 60 - Reading 4	2.5		mg/L
10/08/2008	10:05	3843	TRG	Alkalinity	28.7		mg/L
10/08/2008	10:05	3843	TRG	True Color	55		PCU
10/08/2008	10:05	3843	TRG	Specific Conductance	97.7		umhos/cm
10/08/2008	10:05	3843	TRG	Turbidity	10.3		NTU
10/08/2008	10:05	3843	TRG	TSS	9.0		mg/L
10/08/2008	10:05	3843	TRG	TDS	72.7		mg/L
10/08/2008	10:05	3843	TRG	Chloride by IC	10.4		mg/L
10/08/2008	10:05	3843	TRG	Sulfate	2.8		mg/L
10/08/2008	10:05	3843	TRG	Sodium	12.6		mg/L
10/08/2008	10:05	3843	TRG	TKN	0.15		mg/L
10/08/2008	10:05	3843	TRG	TP	0.08		mg/L
10/08/2008	10:05	3843	TRG	Nitrate+Nitrite Nitrogen		U	mg/L
10/08/2008	10:05	3843	TRG	Ammonia-Nitrogen		U	mg/L
10/08/2008	10:05	3843	TRG	Hardness	24.6		mg/L
10/08/2008	10:05	3843	TRG	TOC	5.4		mg/L
10/08/2008	10:05	3843	TRG	Non-Filtered BOD 60 - Reading 1		U	mg/L
10/08/2008	10:05	3843	TRG	Non-Filtered BOD 60 - Reading 2	0.3		mg/L
10/08/2008	10:05	3843	TRG	Non-Filtered BOD 60 - Reading 3	0.5		mg/L
10/08/2008	10:05	3843	TRG	Non-Filtered BOD 60 - Reading 4	0.7		mg/L
10/08/2008	10:05	3843	TRG	Non-Filtered BOD 60 - Reading 5	1.1		mg/L
10/08/2008	10:05	3843	TRG	Non-Filtered BOD 60 - Reading 6	1.3		mg/L
10/08/2008	10:05	3843	TRG	Non-Filtered BOD 60 - Reading 7	1.7		mg/L
10/08/2008	10:05	3843	TRG	Non-Filtered BOD 60 - Reading 8	2.1		mg/L
10/08/2008	10:05	3843	TRG	Non-Filtered BOD 60 - Reading 9	2.3		mg/L
10/08/2008	10:05	3843	TRG	Non-Filtered BOD 60 - Final	2.4		mg/L
10/08/2008	10:05	3843	TRG	NO2NO3 - Initial Reading	0.05		mg/L
10/08/2008	10:05	3843	TRG	NO2NO3 - Reading 1		U	mg/L
10/08/2008	10:05	3843	TRG	NO2NO3 - Reading 2		U	mg/L
10/08/2008	10:05	3843	TRG	NO2NO3 - Reading 3		U	mg/L
10/08/2008	10:05	3843	TRG	NO2NO3 - Reading 4		U	mg/L
10/08/2008	10:05	3843	TRG	NO2NO3 - Reading 5		U	mg/L
10/08/2008	10:05	3843	TRG	NO2NO3 - Reading 6		U	mg/L

10/08/2008	10:05	3843	TRG	NO2NO3 - Reading 7	0.06		mg/L
10/08/2008	10:05	3843	TRG	NO2NO3 - Reading 8	0.06		mg/L
10/08/2008	10:05	3843	TRG	NO2NO3 - Reading 9	0.06		mg/L
10/08/2008	10:05	3843	TRG	NO2NO3 - Final	0.06		mg/L
10/08/2008	10:05	3843	TRG	TKN (60 Day BOD)		U	mg/L
10/08/2008	10:05	3843	TRG	TOC (60 Day BOD)	3.9		mg/L
10/08/2008	10:05	3843	TRG	pH, Ultimate BOD survey	7.02		pH units
10/08/2008	10:05	3843	TRG	Chlorophyll A (calculated)	2.6		ug/L
10/08/2008	13:10	3882	TRG	NO2NO3 - Reading 4		U	mg/L
10/08/2008	13:10	3882	TRG	NO2NO3 - Reading 5		U	mg/L
10/08/2008	13:10	3882	TRG	NO2NO3 - Reading 6		U	mg/L
10/08/2008	13:10	3882	TRG	NO2NO3 - Reading 7	0.12		mg/L
10/08/2008	13:10	3882	TRG	NO2NO3 - Reading 8	0.34		mg/L
10/08/2008	13:10	3882	TRG	NO2NO3 - Reading 9	0.37		mg/L
10/08/2008	13:10	3882	TRG	NO2NO3 - Final	0.43		mg/L
10/08/2008	13:10	3882	TRG	TKN (60 Day BOD)	0.61		mg/L
10/08/2008	13:10	3882	TRG	TOC (60 Day BOD)	22.2		mg/L
10/08/2008	13:10	3882	TRG	pH, Ultimate BOD survey	6.96		pH units
10/08/2008	13:10	3882	TRG	Alkalinity	56.5		mg/L
10/08/2008	13:10	3882	TRG	True Color	210	D	PCU
10/08/2008	13:10	3882	TRG	Specific Conductance	5930		umhos/cm
10/08/2008	13:10	3882	TRG	Turbidity	20.2		NTU
10/08/2008	13:10	3882	TRG	TSS	10.0		mg/L
10/08/2008	13:10	3882	TRG	TDS	3420		mg/L
10/08/2008	13:10	3882	TRG	Chloride by IC	1868	D	mg/L
10/08/2008	13:10	3882	TRG	Sulfate	198	D	mg/L
10/08/2008	13:10	3882	TRG	Sodium	1040	D	mg/L
10/08/2008	13:10	3882	TRG	TKN	1.31		mg/L
10/08/2008	13:10	3882	TRG	TP	0.14		mg/L
10/08/2008	13:10	3882	TRG	Nitrate+Nitrite Nitrogen		U	mg/L
10/08/2008	13:10	3882	TRG	Ammonia-Nitrogen		U	mg/L
10/08/2008	13:10	3882	TRG	Hardness	562		mg/L
10/08/2008	13:10	3882	TRG	TOC	29.8		mg/L
10/08/2008	13:10	3882	TRG	Non-Filtered BOD 60 - Reading 1	1.4		mg/L
10/08/2008	13:10	3882	TRG	Non-Filtered BOD 60 - Reading 2	4.8		mg/L
10/08/2008	13:10	3882	TRG	Non-Filtered BOD 60 - Reading 3	6.9		mg/L
10/08/2008	13:10	3882	TRG	Non-Filtered BOD 60 - Reading 4	9.1		mg/L

10/08/2008	13:10	3882	TRG	Non-Filtered BOD 60 - Reading 5	10.8		mg/L
10/08/2008	13:10	3882	TRG	Non-Filtered BOD 60 - Reading 6	12.1		mg/L
10/08/2008	13:10	3882	TRG	Non-Filtered BOD 60 - Reading 7	15.1		mg/L
10/08/2008	13:10	3882	TRG	Non-Filtered BOD 60 - Reading 8	18.0		mg/L
10/08/2008	13:10	3882	TRG	Non-Filtered BOD 60 - Reading 9	19.7		mg/L
10/08/2008	13:10	3882	TRG	Non-Filtered BOD 60 - Final	21.8		mg/L
10/08/2008	13:10	3882	TRG	NO2NO3 - Initial Reading	0.05		mg/L
10/08/2008	13:10	3882	TRG	NO2NO3 - Reading 1		U	mg/L
10/08/2008	13:10	3882	TRG	NO2NO3 - Reading 2		U	mg/L
10/08/2008	13:10	3882	TRG	NO2NO3 - Reading 3		U	mg/L
10/08/2008	12:05	3883	TRG	Alkalinity	105		mg/L
10/08/2008	12:05	3883	TRG	True Color	320	D	PCU
10/08/2008	12:05	3883	TRG	Specific Conductance	292		umhos/cm
10/08/2008	12:05	3883	TRG	Turbidity	89.1		NTU
10/08/2008	12:05	3883	TRG	TSS	61.0		mg/L
10/08/2008	12:05	3883	TRG	TDS	245		mg/L
10/08/2008	12:05	3883	TRG	Chloride by IC	22.5		mg/L
10/08/2008	12:05	3883	TRG	Sulfate	5.5		mg/L
10/08/2008	12:05	3883	TRG	Sodium	58.2		mg/L
10/08/2008	12:05	3883	TRG	TKN	1.72		mg/L
10/08/2008	12:05	3883	TRG	TP	0.94		mg/L
10/08/2008	12:05	3883	TRG	Nitrate+Nitrite Nitrogen	0.06		mg/L
10/08/2008	12:05	3883	TRG	Ammonia-Nitrogen		U	mg/L
10/08/2008	12:05	3883	TRG	Hardness	31.6		mg/L
10/08/2008	12:05	3883	TRG	TOC	18.0		mg/L
10/08/2008	12:05	3883	TRG	Non-Filtered BOD 60 - Reading 1	1.5		mg/L
10/08/2008	12:05	3883	TRG	Non-Filtered BOD 60 - Reading 2	4.5		mg/L
10/08/2008	12:05	3883	TRG	Non-Filtered BOD 60 - Reading 3	6.7		mg/L
10/08/2008	12:05	3883	TRG	Non-Filtered BOD 60 - Reading 4	9.0		mg/L
10/08/2008	12:05	3883	TRG	Non-Filtered BOD 60 - Reading 5	12.2		mg/L
10/08/2008	12:05	3883	TRG	Non-Filtered BOD 60 - Reading 6	13.7		mg/L
10/08/2008	12:05	3883	TRG	Non-Filtered BOD 60 - Reading 7	15.5		mg/L
10/08/2008	12:05	3883	TRG	Non-Filtered BOD 60 - Reading 8	17.4		mg/L
10/08/2008	12:05	3883	TRG	Non-Filtered BOD 60 - Reading 9	18.4		mg/L
10/08/2008	12:05	3883	TRG	Non-Filtered BOD 60 - Final	19.6		mg/L
10/08/2008	12:05	3883	TRG	NO2NO3 - Initial Reading	0.06		mg/L
10/08/2008	12:05	3883	TRG	NO2NO3 - Reading 1		U	mg/L

10/08/2008	12:05	3883	TRG	NO2NO3 - Reading 2	0.05		mg/L
10/08/2008	12:05	3883	TRG	NO2NO3 - Reading 3	0.06		mg/L
10/08/2008	12:05	3883	TRG	NO2NO3 - Reading 4	0.12		mg/L
10/08/2008	12:05	3883	TRG	NO2NO3 - Reading 5	0.36		mg/L
10/08/2008	12:05	3883	TRG	NO2NO3 - Reading 6	0.47		mg/L
10/08/2008	12:05	3883	TRG	NO2NO3 - Reading 7	0.55		mg/L
10/08/2008	12:05	3883	TRG	NO2NO3 - Reading 8	0.58		mg/L
10/08/2008	12:05	3883	TRG	NO2NO3 - Reading 9	0.66		mg/L
10/08/2008	12:05	3883	TRG	NO2NO3 - Final	0.62		mg/L
10/08/2008	12:05	3883	TRG	TKN (60 Day BOD)	0.97		mg/L
10/08/2008	12:05	3883	TRG	TOC (60 Day BOD)	11.5		mg/L
10/08/2008	12:05	3883	TRG	pH, Ultimate BOD survey	7.63		pH units
10/08/2008	12:05	3883	TRG	Chlorophyll A (calculated)	24.6		ug/L
10/08/2008	10:30	AI31079	TRG	Alkalinity	195		mg/L
10/08/2008	10:30	AI31079	TRG	True Color	65		PCU
10/08/2008	10:30	AI31079	TRG	Specific Conductance	542		umhos/cm
10/08/2008	10:30	AI31079	TRG	Turbidity	9.6		NTU
10/08/2008	10:30	AI31079	TRG	TSS	9.0		mg/L
10/08/2008	10:30	AI31079	TRG	TDS	346		mg/L
10/08/2008	10:30	AI31079	TRG	Chloride by IC	23.5		mg/L
10/08/2008	10:30	AI31079	TRG	Sulfate	23.6		mg/L
10/08/2008	10:30	AI31079	TRG	Sodium	109		mg/L
10/08/2008	10:30	AI31079	TRG	TKN	3.33	D	mg/L
10/08/2008	10:30	AI31079	TRG	TP	4.00	D	mg/L
10/08/2008	10:30	AI31079	TRG	Nitrate+Nitrite Nitrogen	5.01	D	mg/L
10/08/2008	10:30	AI31079	TRG	Ammonia-Nitrogen	0.75		mg/L
10/08/2008	10:30	AI31079	TRG	Hardness	38.9		mg/L
10/08/2008	10:30	AI31079	TRG	TOC	16.4		mg/L
10/08/2008	10:30	AI31079	TRG	Non-Filtered BOD 60 - Reading 1	0.5		mg/L
10/08/2008	10:30	AI31079	TRG	Non-Filtered BOD 60 - Reading 2	3.2		mg/L
10/08/2008	10:30	AI31079	TRG	Non-Filtered BOD 60 - Reading 3	7.7		mg/L
10/08/2008	10:30	AI31079	TRG	Non-Filtered BOD 60 - Reading 4	11.1		mg/L
10/08/2008	10:30	AI31079	TRG	Non-Filtered BOD 60 - Reading 5	13.3		mg/L
10/08/2008	10:30	AI31079	TRG	Non-Filtered BOD 60 - Reading 6	17.0		mg/L
10/08/2008	10:30	AI31079	TRG	Non-Filtered BOD 60 - Reading 7	20.4		mg/L
10/08/2008	10:30	AI31079	TRG	Non-Filtered BOD 60 - Reading 8	23.3		mg/L
10/08/2008	10:30	AI31079	TRG	Non-Filtered BOD 60 - Reading 9	25.1		mg/L

10/08/2008	10:30	AI31079	TRG	Non-Filtered BOD 60 - Final	27.0		mg/L
10/08/2008	10:30	AI31079	TRG	NO2NO3 - Initial Reading	5.28	D	mg/L
10/08/2008	10:30	AI31079	TRG	NO2NO3 - Reading 1	5.15	D	mg/L
10/08/2008	10:30	AI31079	TRG	NO2NO3 - Reading 2	5.39	D	mg/L
10/08/2008	10:30	AI31079	TRG	NO2NO3 - Reading 3	6.24	D	mg/L
10/08/2008	10:30	AI31079	TRG	NO2NO3 - Reading 4	6.90	D	mg/L
10/08/2008	10:30	AI31079	TRG	NO2NO3 - Reading 5	6.74	D	mg/L
10/08/2008	10:30	AI31079	TRG	NO2NO3 - Reading 6	6.83	D	mg/L
10/08/2008	10:30	AI31079	TRG	NO2NO3 - Reading 7	7.31	D	mg/L
10/08/2008	10:30	AI31079	TRG	NO2NO3 - Reading 8	7.18	D	mg/L
10/08/2008	10:30	AI31079	TRG	NO2NO3 - Reading 9	7.39	D	mg/L
10/08/2008	10:30	AI31079	TRG	NO2NO3 - Final	7.29	D	mg/L
10/08/2008	10:30	AI31079	TRG	TKN (60 Day BOD)	0.60		mg/L
10/08/2008	10:30	AI31079	TRG	TOC (60 Day BOD)	9.5		mg/L
10/08/2008	10:30	AI31079	TRG	pH, Ultimate BOD survey	7.69		pH units

Appendix F2 – Cross Sections and Discharge Measurements

Bayou Lacombe and Tributaries-040901, 040902

Summary of Flows and Cross Sections

Site #	RKM	Width (ft)	Width (m)	Depth (ft)	Depth (m)	Flow (cfs)	Flow (cms)
BL01 (2270)	31.0	19.00	5.791	1.30	0.396	3.266	0.0925
BL02 (1250)	25.2	20.00	6.096	0.60	0.183	9.641	0.2730
BL03 (3690)	20.3	23.50	7.163	0.56	0.171	11.120	0.3149
BL04 (3692)	18.9	30.50	9.296	1.39	0.424	12.852	0.3639
BL05 (3693)	13.2	83.00	25.298	11.81	3.599	-41.370	-1.1715
BL06 (0300)	10.9	145.00	44.196	10.34	3.152	*	*
BL07 (3695)	8.7	270.00	82.296	8.40	2.560	*	*
BL08 (3697)	6.1	245.00	74.676	9.92	3.024	*	*
BL09 (3698)	0.3	326.00	99.365	5.90	1.798	*	*
LP01 (3699)	Lake Pont.	*	*	*	*	*	*
BB03 (3843)	5.2	12.00	3.658	1.29	0.393	0.321	0.0091
BB02 (3842)	2.0	50.00	15.240	3.66	1.116	5.650	0.1600
BB01 (3694)	0.3	130.00	39.624	7.00	2.134	-35.030	-0.9919
CB03 (3883)	4.9	15.40	4.694	0.94	0.287	0.821	0.0232
CB02 (3882)	2.9	46.00	14.021	4.57	1.393	7.750	0.2195
CB01 (3696)	0.2	116.00	35.357	8.96	2.732	-36.600	-1.0364
UNT01 (3691)	unnamed trib	9.00	2.743	0.83	0.252	0.155	0.0044

* Parameter not measured at this site

BL=Bayou Lacombe
LP=Lake Pontchartrain
BB=Big Branch Bayou
CB=Cypress Bayou
UNT=Unnamed Tributary

STREAM CROSS-SECTION SPREADSHEET

Site Number: 300 **Subsegment:** 040902 **Waterbody:** Bayou Lazacombe

Site Description: Below HWY 190

Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual

Initial Bank: ☑ RDB ☐ LDB

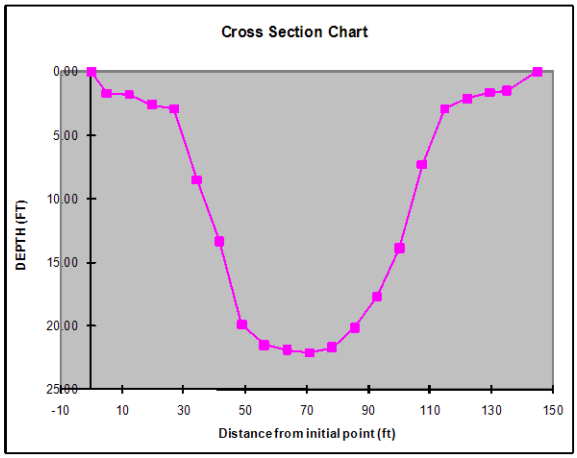
Tapedown:

Gauge Height:

Date: 10/9/2008

WIDTH[1] (ft):	145.00	=	44.20 m
AREA[2] (ft²):	1498.60		
AVG. DEPTH[3] (ft):	10.34	=	3.15 m

Subsegment	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as %of Total Area[6 & 7]
1	0.0	2.50	0.00	0.00	
2	5.0	6.16	1.70	10.48	0.70%
3	12.3	7.32	1.80	13.18	0.88%
4	19.6	7.32	2.60	19.04	1.27%
5	27.0	7.32	2.90	21.24	1.42%
6	34.3	7.32	8.50	62.25	4.15%
7	41.6	7.32	13.30	97.41	6.50%
8	48.9	7.32	19.90	145.75	9.73%
9	56.3	7.32	21.50	157.46	10.51%
10	63.6	7.32	21.90	160.39	10.70%
11	70.9	7.32	22.10	161.86	10.80%
12	78.2	7.32	21.70	158.93	10.61%
13	85.6	7.32	20.10	147.21	9.82%
14	92.9	7.32	17.70	129.63	8.65%
15	100.2	7.32	13.90	101.80	6.79%
16	107.5	7.32	7.30	53.46	3.57%
17	114.9	7.32	2.90	21.24	1.42%
18	122.2	7.32	2.10	15.38	1.03%
19	129.5	6.41	1.60	10.25	0.68%
20	135.0	7.75	1.50	11.62	0.78%
21	145.0	5.00	0.00	0.00	0.00%
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	145.00		1498.60	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Bryan Alleman	Data Inputed by / Date:	Bryan Alleman 10/13/2008
Notetaker/Recorder:	Nicole Smith	Data Input Checked by / Date:	Nicole Smith 10/20/2008
Other:			

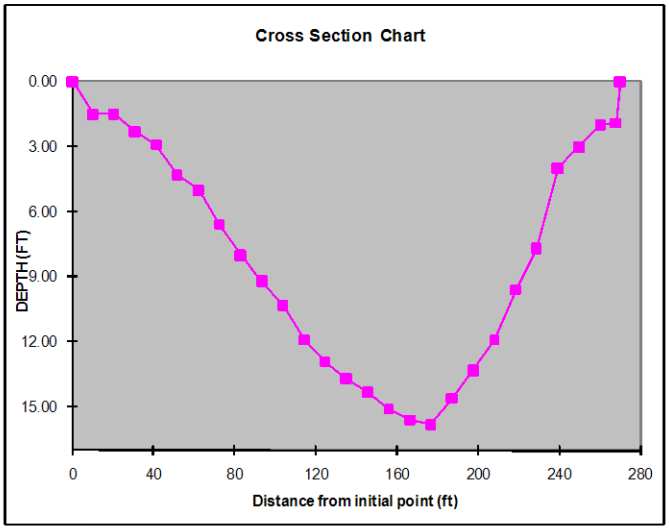
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: 3695 **Subsegment:** 040902 **Waterbody:** Bayou Lacombe
Site Description: Bayou Lacombe Below Big Branch Bayou
Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual
Initial Bank: ☑ RDB ☐ LDB
Tapedown:
Gage Height:
Date: 10/9/2008

WIDTH[1] (ft):	270.00	=	82.30 m
AREA[2] (ft²):	2268.46		
AVG. DEPTH[3](ft):	8.40	=	2.56 m

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	5.00	0.00	0.00	
2	10.0	10.21	1.50	15.32	0.68%
3	20.4	10.42	1.50	15.64	0.69%
4	30.8	10.42	2.30	23.98	1.06%
5	41.3	10.42	2.90	30.23	1.33%
6	51.7	10.42	4.30	44.82	1.98%
7	62.1	10.42	5.00	52.12	2.30%
8	72.5	10.42	6.60	68.80	3.03%
9	83.0	10.42	8.00	83.39	3.68%
10	93.4	10.42	9.20	95.90	4.23%
11	103.8	10.42	10.30	107.37	4.73%
12	114.2	10.42	11.90	124.05	5.47%
13	124.7	10.42	12.90	134.47	5.93%
14	135.1	10.42	13.70	142.81	6.30%
15	145.5	10.42	14.30	149.07	6.57%
16	155.9	10.42	15.10	157.41	6.94%
17	166.4	10.42	15.60	162.62	7.17%
18	176.8	10.42	15.80	164.70	7.26%
19	187.2	10.42	14.60	152.19	6.71%
20	197.6	10.42	13.30	138.64	6.11%
21	208.1	10.42	11.90	124.05	5.47%
22	218.5	10.42	9.60	100.07	4.41%
23	228.9	10.42	7.70	80.27	3.54%
24	239.3	10.42	4.00	41.70	1.84%
25	249.8	10.42	3.00	31.27	1.38%
26	260.2	9.12	2.00	18.24	0.80%
27	268.0	4.91	1.90	9.33	0.41%
28	270.0	1.00	0.00	0.00	0.00%
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	270.00		2268.46	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Bryan Alleman	Data Inputed by / Date:	Bryan Alleman 10/13/2008
Notetaker/Recorder:	Nicole Smith	Data Input Checked by / Date:	Nicole Smith 10/13/2008
Other:			

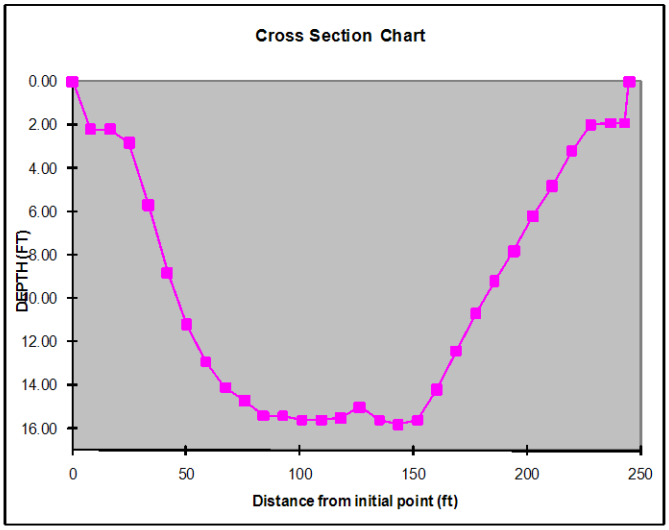
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: 3697 **Subsegment:** 040902 **Waterbody:** Bayou Lacombe
Site Description: Bayou Lacombe below Cypress Bayou
Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual
Initial Bank: ☑ RDB ☐ LDB
Tapedown:
Gauge Height:
Date: 10/9/2008

WIDTH[1] (ft):	245.00	=	74.68 m
AREA[2] (ft²):	2431.62		
AVG. DEPTH[3](ft):	9.92	=	3.03 m

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	4.00	0.00	0.00	
2	8.0	8.23	2.20	18.12	0.74%
3	16.5	8.47	2.20	18.63	0.77%
4	24.9	8.47	2.80	23.71	0.98%
5	33.4	8.47	5.70	48.27	1.99%
6	41.9	8.47	8.80	74.52	3.06%
7	50.3	8.47	11.20	94.85	3.90%
8	58.8	8.47	12.90	109.24	4.49%
9	67.3	8.47	14.10	119.41	4.91%
10	75.7	8.47	14.70	124.49	5.12%
11	84.2	8.47	15.40	130.41	5.36%
12	92.7	8.47	15.40	130.41	5.36%
13	101.2	8.47	15.60	132.11	5.43%
14	109.6	8.47	15.60	132.11	5.43%
15	118.1	8.47	15.50	131.26	5.40%
16	126.6	8.47	15.00	127.03	5.22%
17	135.0	8.47	15.60	132.11	5.43%
18	143.5	8.47	15.80	133.80	5.50%
19	152.0	8.47	15.60	132.11	5.43%
20	160.4	8.47	14.20	120.25	4.95%
21	168.9	8.47	12.40	105.01	4.32%
22	177.4	8.47	10.70	90.61	3.73%
23	185.8	8.47	9.20	77.91	3.20%
24	194.3	8.47	7.80	66.05	2.72%
25	202.8	8.47	6.20	52.50	2.16%
26	211.2	8.47	4.80	40.65	1.67%
27	219.7	8.47	3.20	27.10	1.11%
28	228.2	8.47	2.00	16.94	0.70%
29	236.6	7.41	1.90	14.08	0.58%
30	243.0	4.18	1.90	7.93	0.33%
31	245.0	1.00	0.00	0.00	0.00%
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	245.00		2431.62	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Bryan Alleman	Data Inputed by / Date:	Bryan Alleman/12-3-2008
Notetaker/Recorder:	Nicole Smith	Data Input Checked by / Date:	Nicole Smith/12-3-2008
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: 3698 **Subsegment:** 040902 **Waterbody:** Bayou Lacombe

Site Description: Bayou Lacombe above confluence with Lake Pontchartrain

Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual

Initial Bank: ☑ RDB ☐ LDB

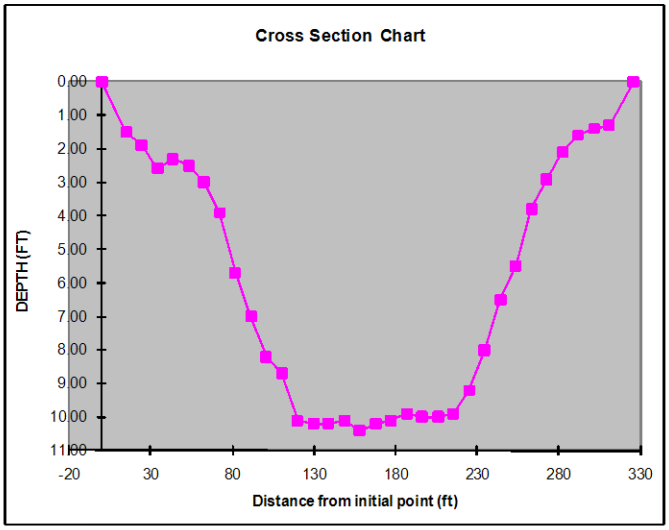
Tapedown:

Gauge Height:

Date: 10/9/2008

WIDTH[1] (ft):	326.00	=	99.36 m
AREA[2] (ft²):	1923.99		
AVG. DEPTH[3](ft):	5.90	=	1.80 m

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	7.50	0.00	0.00	
2	15.0	12.27	1.50	18.41	0.96%
3	24.5	9.55	1.90	18.14	0.94%
4	34.1	9.55	2.60	24.83	1.29%
5	43.6	9.55	2.30	21.96	1.14%
6	53.2	9.55	2.50	23.87	1.24%
7	62.7	9.55	3.00	28.65	1.49%
8	72.3	9.55	3.90	37.24	1.94%
9	81.8	9.55	5.70	54.43	2.83%
10	91.4	9.55	7.00	66.84	3.47%
11	100.9	9.55	8.20	78.30	4.07%
12	110.5	9.55	8.70	83.07	4.32%
13	120.0	9.55	10.10	96.44	5.01%
14	129.6	9.55	10.20	97.39	5.06%
15	139.1	9.55	10.20	97.39	5.06%
16	148.7	9.55	10.10	96.44	5.01%
17	158.2	9.55	10.40	99.30	5.16%
18	167.8	9.55	10.20	97.39	5.06%
19	177.3	9.55	10.10	96.44	5.01%
20	186.9	9.55	9.90	94.53	4.91%
21	196.4	9.55	10.00	95.48	4.96%
22	206.0	9.55	10.00	95.48	4.96%
23	215.5	9.55	9.90	94.53	4.91%
24	225.1	9.55	9.20	87.85	4.57%
25	234.6	9.55	8.00	76.39	3.97%
26	244.2	9.55	6.50	62.06	3.23%
27	253.7	9.55	5.50	52.52	2.73%
28	263.3	9.55	3.80	36.28	1.89%
29	272.8	9.55	2.90	27.69	1.44%
30	282.4	9.55	2.10	20.05	1.04%
31	291.9	9.55	1.60	15.28	0.79%
32	301.5	9.55	1.40	13.37	0.69%
33	311.0	12.27	1.30	15.96	0.83%
34	326.0	7.50	0.00	0.00	0.00%
35					
36					
37					
38					
39					
40					
	Total	326.00		1923.99	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Bryan Alleman	Data Inputed by / Date:	Bryan Alleman/12-3-2008
Notetaker/Recorder:	Nicole Smith	Data Input Checked by / Date:	Nicole Smith/12-3-2008
Other:			

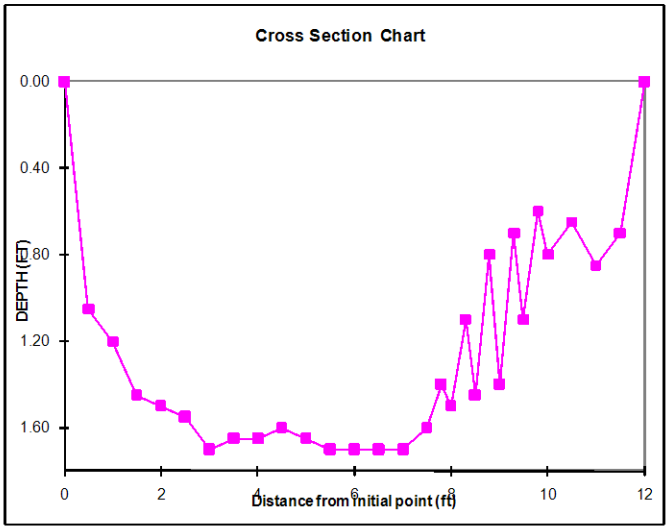
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: 3843 **Subsegment:** 040902 **Waterbody:** Big Branch
Site Description: At Graci Ave
Type of Equipment: ☐ Fathometer ☐ Hydrotrac ☑ Manual
Initial Bank: ☑ RDB ☐ LDB
Tapedown: N/A
Gauge Height: N/A
Date: 10/8/2008

WIDTH[1] (ft):	12.00	=	3.66 m
AREA[2] (ft²):	15.43		
AVG. DEPTH[3](ft):	1.29	=	0.39 m

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	0.25	0.00	0.00	
2	0.5	0.50	1.05	0.53	3.40%
3	1.0	0.50	1.20	0.60	3.89%
4	1.5	0.50	1.45	0.73	4.70%
5	2.0	0.50	1.50	0.75	4.86%
6	2.5	0.50	1.55	0.78	5.02%
7	3.0	0.50	1.70	0.85	5.51%
8	3.5	0.50	1.65	0.83	5.35%
9	4.0	0.50	1.65	0.83	5.35%
10	4.5	0.50	1.60	0.80	5.18%
11	5.0	0.50	1.65	0.83	5.35%
12	5.5	0.50	1.70	0.85	5.51%
13	6.0	0.50	1.70	0.85	5.51%
14	6.5	0.50	1.70	0.85	5.51%
15	7.0	0.50	1.70	0.85	5.51%
16	7.5	0.40	1.60	0.64	4.15%
17	7.8	0.25	1.40	0.35	2.27%
18	8.0	0.25	1.50	0.38	2.43%
19	8.3	0.25	1.10	0.28	1.78%
20	8.5	0.25	1.45	0.36	2.35%
21	8.8	0.25	0.80	0.20	1.30%
22	9.0	0.25	1.40	0.35	2.27%
23	9.3	0.25	0.70	0.18	1.13%
24	9.5	0.25	1.10	0.28	1.78%
25	9.8	0.25	0.60	0.15	0.97%
26	10.0	0.35	0.80	0.28	1.81%
27	10.5	0.50	0.65	0.33	2.11%
28	11.0	0.50	0.85	0.43	2.75%
29	11.5	0.50	0.70	0.35	2.27%
30	12.0	0.25	0.00	0.00	0.00%
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	12.00		15.43	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Ty Yoes, Ross Hartfield	Data Inputed by / Date:	Ty Yoes 10/08/08
Notetaker/Recorder:	Ty Yoes, Ross Hartfield	Data Input Checked by / Date:	Ty Yoes 10/08/08
Other:			

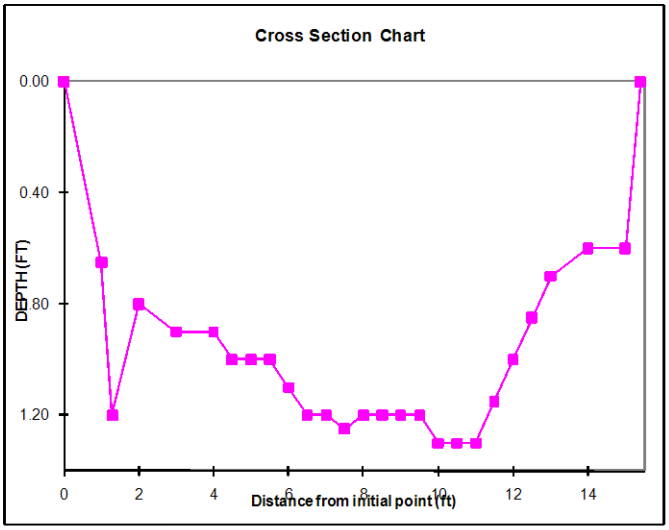
Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

STREAM CROSS-SECTION SPREADSHEET

Site Number: 3883 **Subsegment:** 040902 **Waterbody:** Cypress Bayou
Site Description: At Farwell Dr
Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☑ Manual
Initial Bank: ☐ RDB ☑ LDB
Tapedown: N/A
Gauge Height: N/A
Date: 10/8/2008

WIDTH[1] (ft):	15.40	=	4.69 m
AREA[2] (ft²):	14.55		
AVG. DEPTH[3](ft):	0.94	=	0.29 m

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	0.50	0.00	0.00	
2	1.0	0.65	0.65	0.42	2.90%
3	1.3	0.50	1.20	0.60	4.12%
4	2.0	0.85	0.80	0.68	4.67%
5	3.0	1.00	0.90	0.90	6.19%
6	4.0	0.75	0.90	0.68	4.64%
7	4.5	0.50	1.00	0.50	3.44%
8	5.0	0.50	1.00	0.50	3.44%
9	5.5	0.50	1.00	0.50	3.44%
10	6.0	0.50	1.10	0.55	3.78%
11	6.5	0.50	1.20	0.60	4.12%
12	7.0	0.50	1.20	0.60	4.12%
13	7.5	0.50	1.25	0.63	4.30%
14	8.0	0.50	1.20	0.60	4.12%
15	8.5	0.50	1.20	0.60	4.12%
16	9.0	0.50	1.20	0.60	4.12%
17	9.5	0.50	1.20	0.60	4.12%
18	10.0	0.50	1.30	0.65	4.47%
19	10.5	0.50	1.30	0.65	4.47%
20	11.0	0.50	1.30	0.65	4.47%
21	11.5	0.50	1.15	0.58	3.95%
22	12.0	0.50	1.00	0.50	3.44%
23	12.5	0.50	0.85	0.43	2.92%
24	13.0	0.75	0.70	0.53	3.61%
25	14.0	1.00	0.60	0.60	4.12%
26	15.0	0.70	0.60	0.42	2.89%
27	15.4	0.20	0.00	0.00	0.00%
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	15.40		14.55	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Ty Yoes, Ross Hartfield	Data Inputed by / Date:	Ty Yoes 10/08/08
Notetaker/Recorder:	Ty Yoes, Ross Hartfield	Data Input Checked by / Date:	Ty Yoes 10/08/08
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area column
Note 3: AVG. DEPTH (ft) = area/width (using the values from this table)
Note 4: Width of element
Note 5: Area=Width*Depth for element
Note 6: Percent area = element area/total area x 100%
Note 7: Percent area should be less than 10% as per USGS standard.
Note 8: Blank fields are cleared from all calculations.
Note 9: The cross sections are taken at areas representative of the stream.

Appendix F3 – Field Notes

Bayou Lacombe Insitu

Site	Site	Date	Time	Temp (°C)	pH	Cond (µhmos/cm)	DO	DO%	Salinity	Depth (m)	Secchi (in)
BL01	2270	10/8/2008	11:40 AM	21.00	5.43	52.1	5.52	62.0	0.01	0.25	18
BL02	1250	10/8/2008	1:15 PM	22.62	5.75	58.0	96	8.3	0.02	0.50	
BL03	3690	10/8/2008	10:15 AM	21.67	6.30	57.9	8.23	93.5	0.02	0.50	30
BL04	3692	10/8/2008	7:45 AM	22.47	6.19	58.6	7.59	87.6	0.02	0.30	18
BL05	3693	10/8/2008	12:20 PM	23.28	6.23	800.2	4.13	48.5	0.43	1.00	36
BL06	0300	10/8/2008	11:40 AM	24.64	6.23	2912.0	2.42	29.4	1.78	1.00	36
BL07	3695	10/8/2008	10:45 AM	25.69	6.68	7325.0	4.44	55.7	4.02	1.00	24
BL08	3697	10/8/2008	10:40 AM	25.12	6.86	9759.0	5.44	68.1	5.52	1.00	20
BL09	3698	10/8/2008	9:45 AM	24.77	7.19	12631.0	5.7	71.6	7.25	1.00	20
LP01	3699	10/8/2008	9:15 AM	23.94	7.46	12789.0	7.14	88.3	7.34	1.00	18
UNT01	3691	10/8/2008	8:30 AM	21.85	5.74	62.6	4.24	48.3	0.02	0.30	
BB01	3694	10/8/2008	9:30 AM	25.50	6.55	6220.0	3.69	45.9	3.48	1.00	35
BB02	3842	10/8/2008	9:30 AM	22.93	6.26	717.1	0.56	7.1	0.90	1.00	
BB03	3843	10/8/2008	10:05 AM	21.45	6.11	95.9	2.85	32.5	0.04	0.15	
CB01	3696	10/8/2008	11:10 AM	25.27	6.84	9453.0	5.35	67.1	5.34	1.00	20
CB02	3882	10/8/2008	1:10 PM	24.84	6.41	6880.0	0.99	12.3	3.82	1.00	
CB03	3883	10/8/2008	12:05 PM	23.25	6.58	286.9	1.53	18.0	0.14	0.45	0.5

Site Information

Site #: 2270 Subsegment: 040901 Date: 10-7-08 Time: 0950hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: Hwy. 36

Personnel: Jones, Keith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
Clear ☐
Overcast ☑
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☑
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☑
1-5 ☐
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☑

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☑

Stream Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☑ Continuous Monitor ID: 42511

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): 0.5 m

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 2270 Date: 10-7-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☑ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☑ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☑ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☑ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ **Bridge Safe:** ☐ Bridge Height: _____

Profiling Measurements:

Time: _____	Temp.(°C): _____	pH: _____	Spcond(µhmos/cm): _____
D.O.: _____	D.O. %: _____	Salinity: _____	Depth (m): _____
Time: _____	Temp.(°C): _____	pH: _____	Spcond(µhmos/cm): _____
D.O.: _____	D.O. %: _____	Salinity: _____	Depth (m): _____
Time: _____	Temp.(°C): _____	pH: _____	Spcond(µhmos/cm): _____
D.O.: _____	D.O. %: _____	Salinity: _____	Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.1
Revised 06/21/2007

Site Information

Site #: 2270 Subsegment: 040901 Date: 10-8-08 Time: 1140 hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: Hwy. 36

Personnel: Jones, Keith

Type of Work: Recon ☑ BA Data Collection ☑

Weather Conditions:
Clear ☑
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☑
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☑
1-5 ☐
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☑

Cloud Cover:
0 –10% ☑ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☑ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ **Water Quality Field Parameters:** ☑ Profiling: ☐

Water Quality Field Parameters

Time: 1140 **Temp.(°C):** 21.00 **pH:** 5.43 **SpCond(µhmos/cm):** 52.1
D.O.: 552 **D.O. %:** 62.0 **Salinity:** .01 **Depth (m):** .25 **Secchi (in):** 18 in
InSitu Probe ID: 43534

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☑ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: FT6B
Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 2270 Date: 10-8-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.1
Revised 06/21/2007

Site Information

Site #: 2270 Subsegment: 040901 Date: 10-9-08 Time: 0950

Waterbody: Bayou LAcombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location[1]: Hwy. 36

Personnel: Jones, Keith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
- Clear ☐
- Overcast ☑
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☐
- Mild > 65° ☑
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☑
- 1-5 ☐
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
- NW ☐ N ☐ NE ☐
- SW ☐ S ☐ SE ☐
- E ☐ W ☐
- Variable ☑

Cloud Cover:
0 – 10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☑

Stream Characteristics:
Waterbody Type: Stream ☑

Flowing: ☑ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: 42511

Continuous Monitor Retrieved: ☑ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

[1] All work is done within 100 yard radius of Site

Site 2270 Date 10-9-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

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Revised 06/21/2007

Site Information

Site #: 1250 Subsegment: 040901 Date: 10-7-08 Time: 0925hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location[1]: Hwy. 434

Personnel: Jones, Keith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
- Clear ☑
- Overcast ☐
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☑
- Mild > 65° ☐
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☑
- 1-5 ☐
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
- NW ☐ N ☐ NE ☐
- SW ☐ S ☐ SE ☐
- E ☐ W ☐
- Variable ☑

Cloud Cover:
0 – 10% ☑ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☑

Flowing: ☑ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☑ Continuous Monitor ID: 43545

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): .5m

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

[1] All work is done within 100 yard radius of Site

Site 1250 Date: 10-7-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☑ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☑
Stream Bottom: Sandy ☑ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☑ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

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Site Information

Site #: 1250 Subsegment: 040901 Date: 10-8-08 Time: 1315 hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: Hwy. 434

Personnel: Jones, Keith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
Clear ☑
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☑
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☑
1-5 ☐
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☑

Cloud Cover:
0 –10% ☑ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☑ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ **Water Quality Field Parameters:** ☑ Profiling: ☐

Water Quality Field Parameters

Time: 1315 **Temp.(°C):** 22.62 **pH:** 5.75 **SpCond(µhmos/cm):** 58.0
D.O.: 96.0 **D.O. %:** 8.30 **Salinity:** .02 **Depth (m):** .5m **Secchi (in):** _in
InSitu Probe ID: 43534

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☑ Type of Measurement: Wading ☑ Stationary ☐ Moving Boat ☐
Instrument ID: FT6B
Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 1250 Date: 10-8-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 1250 Subsegment: 040901 Date: 10-9-08 Time: 0930

Waterbody: BAYOU LACOMBE

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location[1]: Hwy. 434

Personnel: Jones, Keith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
- Clear ☑
- Overcast ☐
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☐
- Mild > 65° ☑
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☑
- 1-5 ☐
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
- NW ☐ N ☐ NE ☐
- SW ☐ S ☐ SE ☐
- E ☐ W ☐
- Variable ☑

Cloud Cover:
0 – 10% ☑ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☑

Flowing: ☑ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: 43545

Continuous Monitor Retrieved: ☑ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

[1] All work is done within 100 yard radius of Site

Site 1250 Date: 10-9-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

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Revised 06/21/2007

Site Information

Site #: 3690 Subsegment: 040901 Date: 10-7-08 Time: 0900hrs

Waterbody: Bayou Lacombe

Tapedown 1: 17.54ft. Staff Gauge 1: _____ Gauge Height 1: _____

Site Location[1]: Krentel Rd.

Personnel: Jones, Keith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
Clear ☐
Overcast ☑
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☑
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☑
1-5 ☐
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☑

Cloud Cover:
0 – 10% ☐ 11 – 40% ☐ 41 – 70% ☑ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☑ Continuous Monitor ID: 42508

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): 1m

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

[1] All work is done within 100 yard radius of Site

Site 3690 Date: 10-7-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☑ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☑ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☑ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

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Site Information

Site #: 3690 Subsegment: 040901 Date: 10-8-08 Time: 1015 hrs

Waterbody: BAYOU LACOMBE

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: Krentel Rd.

Personnel: Jones, Keith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions: Clear ☑ Overcast ☐ Drizzle/Light Rain ☐ Showers ☐

Temperature (°F): Hot >85° ☐ Warm > 75° ☑ Mild > 65° ☐ Cool > 60° ☐ Cold < 60° ☐

Wind (mph): <1 ☑ 1-5 ☐ 6-10 ☐ 11-15 ☐ >16 ☐

Wind Direction: NW ☐ N ☐ NE ☐ SW ☐ S ☐ SE ☐ E ☐ W ☐ Variable ☑

Cloud Cover: 0 –10% ☑ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics: Waterbody Type: Stream ☑

Flowing: ☑ Measurable Flow: ☑ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ **Water Quality Field Parameters:** ☑ Profiling: ☐

Water Quality Field Parameters

Time: 1015 hrs **Temp.(°C):** 21.67 **pH:** 6.30 **SpCond(µhmos/cm):** 57.9

D.O.: 8.23 **D.O. %:** 93.5 **Salinity:** .02 **Depth (m):** .5m **Secchi (in):** 30 in

InSitu Probe ID: 43534

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☑ Type of Measurement: Wading ☑ Stationary ☐ Moving Boat ☐

Instrument ID: FT6B

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3690 Date: 10-8-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ **Bridge Safe:** ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 3690 Subsegment: 040901 Date: 10-9-08 Time: 0900

Waterbody: BAyou LAcombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location[1]: Krentle Rd.

Personnel: Jones, Keith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
- Clear ☑
- Overcast ☐
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☑
- Mild > 65° ☑
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☑
- 1-5 ☐
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☑

Cloud Cover:
0 – 10% ☑ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☑
Flowing ☑ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: 42508

Continuous Monitor Retrieved: ☑ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

[1] All work is done within 100 yard radius of Site

Site 3690 Date: 10-9-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

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Site Information

Site #: 3692 Subsegment: 040901 Date: 10-7-08 Time: 0800hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location[1]: I-12 (50 yds. South)

Personnel: Jones, Keith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
- Clear ☐
- Overcast ☑
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☑
- Mild > 65° ☐
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☐
- 1-5 ☑
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
- NW ☐ N ☐ NE ☐
- SW ☑ S ☐ SE ☐
- E ☐ W ☐
- Variable ☐

Cloud Cover:
- 0 – 10% ☐
- 11 – 40% ☐
- 41 – 70% ☐
- 71 – 100% ☑

Stream Characteristics:
- Waterbody Type: Stream ☑
- Flowing: ☑ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
- Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☑ Continuous Monitor ID: 43532

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): 5m

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

[1] All work is done within 100 yard radius of Site

Site 3692 Date: 10-7-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☑ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☑ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☑ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☑ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

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Site Information

Site #: 3692 Subsegment: 040901 Date: 10-8-08 Time: 0745hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: I-12 (50 yds. South)

Personnel: Jones, Keith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
- Clear ☑
- Overcast ☐
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☑
- Mild > 65° ☐
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☑
- 1-5 ☐
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
- NW ☐ N ☐ NE ☐
- SW ☐ S ☐ SE ☐
- E ☐ W ☐
- Variable ☑

Cloud Cover:
- 0 –10% ☑
- 11 – 40% ☐
- 41 – 70% ☐
- 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☑ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ **Water Quality Field Parameters:** ☑ Profiling: ☐

Water Quality Field Parameters

Time: 0745 **Temp.(°C):** 22.47 **pH:** 6.19 **SpCond(µhmos/cm):** 58.6
D.O.: 7.59 **D.O. %:** 87.6 **Salinity:** .02 **Depth (m):** .30 **Secchi (in):** 18
InSitu Probe ID: 43534

Continuous Monitor Deployed: ☐ Continuous Monitor ID: 43534
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☑ Type of Measurement: Wading ☑ Stationary ☐ Moving Boat ☐
Instrument ID: FT4B
Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☑ Type of Measurement Manual: ☑ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3692 Date: 10-8-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Comments: Flow measurement is a representative cross-section.

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

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Revised 06/21/2007

Site Information

Site #: 3692 Subsegment: 040901 Date: 10-9-08 Time: 0845

Waterbody: BAYOU LACOMBE

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: I-12 (50 yds. South)

Personnel: Jones, Keith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
- Clear ☑
- Overcast ☐
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☑
- Mild > 65° ☑
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☑
- 1-5 ☐
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☑

Cloud Cover:
0 – 10% ☑ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: 43532

Continuous Monitor Retrieved: ☑ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3692 Date: 10-~~8~~-08 6th 9

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

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Site Information

Site #: 31693 Subsegment: 040901 Date: 10/7/08 Time: 1115 hrs

Waterbody: Bayou LaCombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: above fish hatchery

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
- Clear ☐
- Overcast ☒
- Drizzle/Light Rain ☒
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☒
- Mild > 65° ☐
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☐
- 1-5 ☒
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☒
E ☐ W ☐
Variable ☐

Cloud Cover:
0 – 10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☒

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☒ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** ____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☒ Continuous Monitor ID: 42507 LD09

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): 1m

Water Level Monitor Deployed: ☒ Instrument ID: Station 3 @ 1155 hrs.

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3693 Date: 10/7/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☒ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☑ Municipal ☑ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 3693 Subsegment: 040901 Date: 10/8/08 Time: 1220 hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: above fish hatchery

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
- Clear ☒
- Overcast ☐
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☒
- Mild > 65° ☐
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☐
- 1-5 ☒
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
NW ☐ N ☒ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☒

Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ **Water Quality Field Parameters:** ☒ Profiling: ☒

Water Quality Field Parameters

Time: 1220 **Temp.(°C):** 23.28 **pH:** 6.23 **SpCond(µhmos/cm):** 800.2
D.O.: 4.13 **D.O. %:** 48.5 **Salinity:** 0.43 **Depth (m):** 1m **Secchi (in):** 36 in.
InSitu Probe ID: 43541 LD018

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____ * River cat discharge is Representative XS.

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3693 Date: 10/8/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: 1229 Temp.(°C): 24.75 pH: 6.27 Spcond(µhmos/cm): 9681
D.O.: 0.17 D.O. %: 2.1 Salinity: 5.41 Depth (m): 2m

Time: 1231 Temp.(°C): 25.25 pH: 6.36 Spcond(µhmos/cm): 11247
D.O.: 0.18 D.O. %: 2.3 Salinity: 6.40 Depth (m): 3m

Time: 1233 Temp.(°C): 25.31 pH: 6.45 Spcond(µhmos/cm): 11608
D.O.: 0.25 D.O. %: 3.2 Salinity: 6.63 Depth (m): 4m

Comments: hydrogen sulfide smell

Time 1235 Temp: 25.33 pH 6.49 SpCond. 11642
DO: 0.17 D.O%: 2.2 Sal: 6.65 Depth: 5m
Time 1237 Temp: 25.35 pH: 6.53 SpCond 11681
D.O. 0.14 D.O%: 1.8 Sal: 6.68 Depth: 6m

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 3693 Subsegment: 040901 Date: 10/10/08 Time: 0825 hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: above fish hatchery

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☐
Mild > 65° ☒
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☒
1-5 ☐
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☒

Cloud Cover:
0 –10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: 42507

Continuous Monitor Retrieved: ☒ Continuous Monitor Depth (m): _____

Water Level Monitor ~~Deployed~~ Retrieved: ☒ Instrument ID: Station 3

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3693 Date: 10/10/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 0300 Subsegment: 040902 Date: 10/7/08 Time: 1100 hrs.

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: @ bridge on Hwy 190

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☐
Overcast ☒
Drizzle/Light Rain ☒
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☒
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☒

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☒ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☒ Continuous Monitor ID: 42500 LD02

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): 1m

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 0300 Date: 10/7/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☒ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☒ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 0300 Subsegment: 040902 Date: 10/8/08 Time: 1140 hrs.

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: below Hwy 190

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☒ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ **Water Quality Field Parameters:** ☒ Profiling: ☒

Water Quality Field Parameters

Time: 1140hrs **Temp.(°C):** 24.64 **pH:** 6.23 **SpCond(µhmos/cm):** 2912
D.O.: 2.42 **D.O. %:** 29.4 **Salinity:** 1.78 **Depth (m):** 1m **Secchi (in):** 36in
InSitu Probe ID: 43541 LD018

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 0300 Date: 10/8/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	1150	Temp.(°C):	25.55	pH:	6.41	Spcond(µhmos/cm):	9716
D.O.:	0.12	D.O. %:	1.5	Salinity:	5.37	Depth (m):	2m
Time:	1154	Temp.(°C):	25.84	pH:	6.45	Spcond(µhmos/cm):	11690
D.O.:	0.14	D.O. %:	1.7	Salinity:	6.66	Depth (m):	3m
Time:	1156	Temp.(°C):	25.98	pH:	6.53	Spcond(µhmos/cm):	13067
D.O.:	0.18	D.O. %:	2.2	Salinity:	7.54	Depth (m):	4m

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 0300 Subsegment: 040902 Date: 10/9/08 Time: 1110 hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: @ bridge on Hwy 190

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☐
Overcast ☒
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☐
Mild > 65° ☒
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☒
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☒

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☒ Type of Measurement Manual: ☐ Fathometer ☒

Fathometer ID: S/N 080

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 0300 Date: 10/9/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____	Temp.(°C): _____	pH: _____	Spcond(µhmos/cm): _____
D.O.: _____	D.O. %: _____	Salinity: _____	Depth (m): _____
Time: _____	Temp.(°C): _____	pH: _____	Spcond(µhmos/cm): _____
D.O.: _____	D.O. %: _____	Salinity: _____	Depth (m): _____
Time: _____	Temp.(°C): _____	pH: _____	Spcond(µhmos/cm): _____
D.O.: _____	D.O. %: _____	Salinity: _____	Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 0300 Subsegment: 040902 Date: 10/10/08 Time: 0847 hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: at Hwy 190

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
- Clear ☒
- Overcast ☐
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☐
- Mild > 65° ☒
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☒
- 1-5 ☐
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☒

Cloud Cover:
0 –10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☒

Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐

Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: 42500 002

Continuous Monitor Retrieved: ☒ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 0300 Date: 10/10/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Revised 06/21/2007

Site Information

Site #: 3695 Subsegment: 040902 Date: 10/7/08 Time: 1310 hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: below Big Branch bayou

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☐
Overcast ☒
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☒
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☒

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☒ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☒ Continuous Monitor ID: 43551 LD026

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): 1m

Water Level Monitor Deployed: ☒ Instrument ID: station 2 @ 1315 hrs.

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3695 Date: 10/7/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☒ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☒ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 3695 Subsegment: 040902 Date: 10/8/08 Time: 1045hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: below Big Branch Bayou

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☒ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☒

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ **Water Quality Field Parameters:** ☒ Profiling: ☒

Water Quality Field Parameters

Time: 1045hrs **Temp.(°C):** 25.69 **pH:** 6.68 **SpCond(µhmos/cm):** 7325
D.O.: 4.44 **D.O. %:** 55.7 **Salinity:** 4.02 **Depth (m):** 1m **Secchi (in):** 24in
InSitu Probe ID: 4354 LD018

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3695 Date: 10/8/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: 1050 Temp.(°C): 25.65 pH: 6.55 Spcond(µhmos/cm): 9610
D.O.: 0.26 D.O. %: 3.3 Salinity: 5.32 Depth (m): 2m

Time: 1100 Temp.(°C): 25.47 pH: 6.62 Spcond(µhmos/cm): 11399
D.O.: 0.11 D.O. %: 1.4 Salinity: 6.47 Depth (m): 3m

Time: 1105 Temp.(°C): 25.54 pH: 6.69 Spcond(µhmos/cm): 12105
D.O.: 0.14 D.O. %: 1.7 Salinity: 6.93 Depth (m): 4m

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

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Site Information

Site #: 3695 Subsegment: 040902 Date: 10/9/08 Time: 1050 hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: below Big Branch Bayou

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☐
Overcast ☒
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☐
Mild > 65° ☒
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☒
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☒

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒
Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☒ Type of Measurement Manual: ☐ Fathometer ☒

Fathometer ID: S/N 080

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3695 Date: 10/9/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 3695 Subsegment: 040902 Date: 10/10/08 Time: 0917 hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: below Big Branch Bayou

Personnel: Smith, Allaman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☐
Mild > 65° ☒
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☒ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: 43551 LD026

Continuous Monitor Retrieved: ☒ Continuous Monitor Depth (m): _____

Water Level Monitor ~~Deployed~~ Retrieved: ☒ Instrument ID: Station 2

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3695 Date: 10/10/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.1
Revised 06/21/2007

Site Information

Site #: 3697 Subsegment: 040902 Date: 10-7-08 Time: 1245

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: below Cypress Bayou

Personnel: A. Tieben, B. LaFleur

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☐
Overcast ☒
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☐
6-10 ☒
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☒
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☒

Waterbody Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☒ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☒ Wind Influence Direction: Upstream ☒ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☒ Continuous Monitor ID: LD05

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): 1 m

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3697 Date: 10-7-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☒ Gravel ☐ Hard Clay ☐ Soft Silt ☒

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ **Bridge Safe:** ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	**Temp.(°C):**	_____	**pH:**	_____	**Spcond(µhmos/cm):**	_____
D.O.:	_____	**D.O. %:**	_____	**Salinity:**	_____	**Depth (m):**	_____
Time:	_____	**Temp.(°C):**	_____	**pH:**	_____	**Spcond(µhmos/cm):**	_____
D.O.:	_____	**D.O. %:**	_____	**Salinity:**	_____	**Depth (m):**	_____
Time:	_____	**Temp.(°C):**	_____	**pH:**	_____	**Spcond(µhmos/cm):**	_____
D.O.:	_____	**D.O. %:**	_____	**Salinity:**	_____	**Depth (m):**	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.2
Revised 06/27/2007

Bayou Lacombe Survey

Site Information

Site #: 3697 Subsegment: 040902 Date: 10-8-08 Time: 1040

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location[1]: Below Cypress Bayou

Personnel: Earles, La Fleur

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☐
Mild > 65° ☒
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☐
6-10 ☐
11-15 ☒
>16 ☐

Wind Direction:
NW ☒ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 – 10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ **Water Quality Field Parameters:** ☒ Profiling: ☐

Water Quality Field Parameters

Time: 1040 **Temp.(°C):** 25.12 **pH:** 6.86 **SpCond(µhmos/cm):** 9759
D.O.: 5.44 **D.O. %:** 68.1 **Salinity:** 5.52 **Depth (m):** 1.0 **Secchi (in):** 20.0
InSitu Probe ID: 43550

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

[1] All work is done within 100 yard radius of Site

Site 3697 Date: 10-8-08

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Waterbody Dry/Intermittent: ☐
Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:		Salinity:		Depth (m):	

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Revised 06/27/2007

Site Information

Site #: 3697 Subsegment: 040902 Date: 10/9/08 Time: 1030 hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: below confluence w/ Cypress Bayou

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☐
Mild > 65° ☒
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☐
6-10 ☒
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☒
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☐
Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☒ Type of Measurement Manual: ☐ Fathometer ☒

Fathometer ID: S/N 080

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3697 Date: 10/9/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Revised 06/21/2007

Site Information

Site #: 3697 Subsegment: 040902 Date: 10-9-08 Time: 1250

Waterbody: Bayou LaCombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: below Cypress Bayou

Personnel: J. Earles, G. LAFleur

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☒
Warm > 75° ☐
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☒ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☐ 11 – 40% ☒ 41 – 70% ☐ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☒
Flowing: ☐ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** ____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: LD05

Continuous Monitor Retrieved: ☒ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3697 Date: 10-9-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.2
Revised 06/27/2007

Site Information

Site #: 3698 Subsegment: 040902 Date: 10-7-98 Time: 1230

Waterbody: Bayou LaCombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location[1]: Above Confluence with Lake Ponchartrain

Personnel: A. Tieben, G. LaFleur

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☐
Overcast ☒
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☐
6-10 ☒
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☒
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☒

Waterbody Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☒ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☒ Wind Influence Direction: Upstream ☒ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☒ Continuous Monitor ID: LD016

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): 0.5

Water Level Monitor Deployed: ☒ Instrument ID: Station 1 * Deployed @ 1330 hrs.

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

[1] All work is done within 100 yard radius of Site

Site 3698 Date: 10-7-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☒ Gravel ☐ Hard Clay ☐ Soft Silt ☒

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.2
Revised 06/27/2007

Bayou Lacom Survey

Site Information

Site #: 3698 Subsegment: 040902 Date: 10-8-08 Time: 0945

Waterbody: Bayou LaCombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: Just above confluence with Lake Pontchartrain

Personnel: Forles, LaFleur

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☐
Mild > 65° ☒
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☐
6-10 ☐
11-15 ☒
>16 ☐

Wind Direction:
NW ☒ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☒
Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ **Water Quality Field Parameters:** ☒ Profiling: ☐

Water Quality Field Parameters

Time: 0945 **Temp.(°C):** 24.77 **pH:** 7.19 **SpCond(µhmos/cm):** 12631
D.O.: 5.70 **D.O. %:** 71.6 **Salinity:** 7.25 **Depth (m):** 1.0 **Secchi (in):** 20.0
InSitu Probe ID: 43550

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3698 Date: 10-8-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.2
Revised 06/27/2007

Site Information

Site #: 3698 Subsegment: 040902 Date: 10/9/08 Time: 1000 hrs

Waterbody: Bayou Lacombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: above confluence w/ Lake Pontchartrain

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☐
Mild > 65° ☒
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☐
6-10 ☒
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☒
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 – 10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒
Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☒ Type of Measurement Manual: ☐ Fathometer ☒

Fathometer ID: S/N 080

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3698 Date: 10/9/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.1
Revised 06/21/2007

Site Information

Site #: 3698 Subsegment: 040902 Date: 10-9-08 Time: 1230

Waterbody: Bayou LAcombe

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: just Above confluence w/ LAke Ponchartrain

Personnel: J. Earles, G. LAFleur

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☒ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 – 10% ☐ 11 – 40% ☐ 41 – 70% ☒ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☒ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☒ Wind Influence Direction: Upstream ☐ Downstream ☒

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: LDO 16

Continuous Monitor Retrieved: ☒ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3698 Date: 10-9-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.2
Revised 06/27/2007

Site Information

Site #: 3698 Subsegment: 040902 Date: 10-10-08 Time: 1125

Waterbody: Bayou LaCombe

Tapedown 1: ____ Staff Gauge 1: ____ Gauge Height 1: ____

Site Location[1]: Just upstream of confluence w/ Lake Pontchartrain

Personnel: J. Earles, G. LaFleur

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☒ W ☐
Variable ☐

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☒ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☐ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☒ Wind Influence Direction: Upstream ☒ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: ____ Temp.(°C): ____ pH: ____ SpCond(µhmos/cm): ____
D.O.: ____ D.O. %: ____ Salinity: ____ Depth (m): ____ Secchi (in): ____
InSitu Probe ID: ____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: ____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): ____
Water Level Monitor ~~Deployed~~ Retrieved: ☒ Instrument ID: Station 1

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: ____
Stream Velocity Monitor Deployed ☐ Instrument ID: ____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): ____ Time (s): ____
Mid Stream Distance (ft): ____ Time (s): ____
Left Descending Bank Distance (ft): ____ Time (s): ____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: ____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

[1] All work is done within 100 yard radius of Site

Site 3698 Date: 10-10-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.1
Revised 06/21/2007

Site Information

Site #: 3699 Subsegment: 040902 Date: 10-7-08 Time: 1220

Waterbody: Lake Ponchartrain

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: At confluence with Bayou LaCombe

Personnel: A. Tieben, G. LaFleur

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☐
Overcast ☒
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☐
6-10 ☒
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☒
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☒

Waterbody Characteristics:
Waterbody Type: Stream ☐
Flowing: ☐ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☒ Wind Influence: ☒ Tidally Influenced: ☒

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____
D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____
InSitu Probe ID: _____

Continuous Monitor Deployed: ☒ Continuous Monitor ID: LDO 19
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): 1 M
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3699 Date: 10-7-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☒ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

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Bayou Lac nbe Survey

Site Information

Site #: 3699 Subsegment: 040902 Date: 10-8-08 Time: 0915

Waterbody: Lake Pontchartrain

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: At Confluence with Bayou Lacombe

Personnel: Earles, LaFleur

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☐
Mild > 65° ☒
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☐
6-10 ☐
11-15 ☒
>16 ☐

Wind Direction:
NW ☒ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☒
Variable ☐

Cloud Cover:
0 –10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☐
Flowing: ☐ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☒
Wind Influence: ☐ Tidally Influenced: ☒

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ **Water Quality Field Parameters:** ☒ Profiling: ☐

Water Quality Field Parameters

Time: 0915 **Temp.(°C):** 23.94 **pH:** 7.46 **SpCond(µhmos/cm):** 12789
D.O.: 7.14 **D.O. %:** 88.3 **Salinity:** 7.34 **Depth (m):** 1.0 **Secchi (in):** 18.0
InSitu Probe ID: 43550

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3699 Date: 10-8-08

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Waterbody Dry/Intermittent: ☐
Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____	Temp.(°C): _____	pH: _____	Spcond(µhmos/cm): _____
D.O.: _____	D.O. %: _____	Salinity: _____	Depth (m): _____
Time: _____	Temp.(°C): _____	pH: _____	Spcond(µhmos/cm): _____
D.O.: _____	D.O. %: _____	Salinity: _____	Depth (m): _____
Time: _____	Temp.(°C): _____	pH: _____	Spcond(µhmos/cm): _____
D.O.: _____	D.O. %: _____	Salinity: _____	Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

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Site Information

Site #: 3699 Subsegment: 040902 Date: 10-9-08 Time: 1221

Waterbody: Lake Ponchartrain

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: At confluence with Bayou Lacombe

Personnel: J. Earles, G. LaFleur

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☒ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☒ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☐
Flowing: ☐ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☒
Wind Influence: ☐ Tidally Influenced: ☒

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☒
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____
D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____
InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: LD019
Continuous Monitor Retrieved: ☒ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3699 Date: 10-9-08

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Waterbody Dry/Intermittent: ☐
Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:		D.O. %:		Salinity:		Depth (m):	

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 3691 Subsegment: 040901 Date: 10-8-08 Time: 0830 hrs

Waterbody: Unnamed Trib.

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: I-12 (50 yd. South)

Personnel: Jones, Keith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
- Clear ☑
- Overcast ☐
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☑
- Mild > 65° ☐
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☑
- 1-5 ☐
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☑

Cloud Cover:
0 –10% ☑ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☑ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ **Water Quality Field Parameters:** ☑ Profiling: ☐

Water Quality Field Parameters

Time: 0830 **Temp.(°C):** 21.85 **pH:** 5.74 **SpCond(µhmos/cm):** 62.6
D.O.: 4.24 **D.O. %:** 48.3 **Salinity:** .02 **Depth (m):** .3 m **Secchi (in):** N/A
InSitu Probe ID: 43534

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☑ Type of Measurement: Wading ☑ Stationary ☐ Moving Boat ☐
Instrument ID: FT6B
Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☑ Type of Measurement Manual: ☑ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3691 Date: 10-8-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☑ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☑ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☑ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☑ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☑ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	Temp.(°C):	pH:	Spcond(µhmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(°C):	pH:	Spcond(µhmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(°C):	pH:	Spcond(µhmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Comments: Flow measurement is a representative cross-section.

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 3694 Subsegment: 040902 Date: 10/7/08 Time: 1240hrs

Waterbody: Big Branch Bayou

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: @ Confluence with Bayou Lacombe

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☐
Overcast ☒
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☒
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☒

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☒ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☒ Continuous Monitor ID: 42510 LDO 12

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): 1m

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3694 Date: 10/7/03

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Stream Dry/Intermittent: ☐

Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☒ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☒ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

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Revised 06/21/2007

Site Information

Site #: 3694 Subsegment: 040902 Date: 10/8/08 Time: 0930hrs.

Waterbody: Big Branch Bayou

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location[1]: @ confl. w/ Bayou LaCombe

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☒ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ **Water Quality Field Parameters:** ☒ Profiling: ☒

Water Quality Field Parameters

Time: 0930 Temp.(°C): 25.50 pH: 6.55 SpCond(µhmos/cm): 6220
D.O.: 3.69 D.O. %: 45.9 Salinity: 3.48 Depth (m): 1m Secchi (in): 35in
InSitu Probe ID: 43541

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____ * River cut is representative XS

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

[1] All work is done within 100 yard radius of Site

Site 3694 Date: 10/8/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: 1000 hrs Temp.(°C): 25.83 pH: 6.46 Spcond(µhmos/cm): 9219
D.O.: 0.15 D.O. %: 1.9 Salinity: 4.81 Depth (m): 2m

Time: 1005 hrs Temp.(°C): 25.56 pH: 6.56 Spcond(µhmos/cm): 11245
D.O.: 0.10 D.O. %: 1.2 Salinity: 6.49 Depth (m): 3m

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments:

* River cat discharge is representative XS.

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

Field Site Survey.doc
Revision 4.1
Revised 06/21/2007

Site Information

Site #: 3694 Subsegment: 040902 Date: 10/10/08 Time: 0910 hrs

Waterbody: Big Branch Bayou

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: @ confluence w/ Bayou Lacombe

Personnel: Smith, Alleman

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☐
Mild > 65° ☒
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☒ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 – 10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: 42510 LD012

Continuous Monitor Retrieved: ☒ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3694 Date: 10/10/08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

Field Site Survey.doc
Revision 4.1
Revised 06/21/2007

Site Information

Site #: 3842 Subsegment: 040902 Date: 10-7-08 Time: 1024hrs

Waterbody: Big Branch

Tapedown 1: 7' 1" Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: G Berry Todd Road

Personnel: Ty Yoes, Derek Borne

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
Clear ☐
Overcast ☑
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☑
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☑
1-5 ☐
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☑

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☑

Waterbody Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☑ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☑ Continuous Monitor ID: 43504

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): 1m

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3842 Date: 10-7-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml)_____

Physical Site Characteristics. Natural Waterbody: ☒ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☒ Gravel ☐ Hard Clay ☐ Soft Silt ☒

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location:_____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☒ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch:_____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:		D.O. %:		Salinity:		Depth (m):	

Comments:

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.2
Revised 06/27/2007

Site Information

Site #: 3842 Subsegment: 040902 Date: 10-8-08 Time: 0920hrs

Waterbody: Big Branch

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location[1]: @ Barry Todd Road

Personnel: Ty Yosa, Ross Hartfield

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
- Clear ☑
- Overcast ☐
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☑
- Mild > 65° ☐
- Cool > 50° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☑
- 1-5 ☐
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☑

Cloud Cover:
0 –10% ☑ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☑ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ Water Quality Field Parameters: ☑ Profiling: ☐

Water Quality Field Parameters

Time: 930 Temp.(°C): 22.93 pH: 6.26 SpCond(µhmos/cm): 717.10
D.O.: .56 D.O. %: 7.1 Salinity: .90 Depth (m): 1m Secchi (in): /
InSitu Probe ID: 42506

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

[1] All work is done within 100 yard radius of Site

Site 3842 Date: 10-8-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: D.O. %: Salinity: Depth (m):

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Revised 06/27/2007

Site Information

Site #: 3842 Subsegment: 040902 Date: 10-9-08 Time: 1045hrs

Waterbody: Big Branch

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location[1]: @ Berry Todd Road

Personnel: Derek Borne, Adam Tieben, Stewart Beard

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
- Clear ☐
- Overcast ☒
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☒
- Mild > 65° ☐
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☒
- 1-5 ☐
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
- NW ☐ N ☐ NE ☐
- SW ☐ S ☐ SE ☐
- E ☐ W ☐
- Variable ☒

Cloud Cover:
- 0 – 10% ☐
- 11 – 40% ☐
- 41 – 70% ☒
- 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____
InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: 43504
Continuous Monitor Retrieved: ☒ Continuous Monitor Depth (m): 1m
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

[1] All work is done within 100 yard radius of Site

Site 3842 Date: 10-9-08

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☑ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Waterbody Dry/Intermittent: ☐
Waterbody Bottom: Sandy ☐ Clay ☑ Gravel ☐ Hard Clay ☐ Soft Silt ☑
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☑ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
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Revised 06/27/2007

Site Information

Site #: 3843 Subsegment: 040902 Date: 10-7-08 Time: 1042

Waterbody: Big Branch

Tapedown 1: 10.25 Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: G Graci Avenue

Personnel: Ty Yoes, Derek Borne

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions: Clear ☐ Overcast ☑ Drizzle/Light Rain ☐ Showers ☐

Temperature (°F): Hot >85° ☐ Warm > 75° ☑ Mild > 65° ☐ Cool > 60° ☐ Cold < 60° ☐

Wind (mph): <1 ☑ 1-5 ☐ 6-10 ☐ 11-15 ☐ >15 ☐

Wind Direction: NW ☐ N ☐ NE ☐ SW ☐ S ☐ SE ☐ E ☐ W ☐ Variable ☑

Cloud Cover: 0 -10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☑

Waterbody Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☑ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: < 1-25% ☐ 26-50% ☑ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____
InSitu Probe ID: _____

Continuous Monitor Deployed: ☑ Continuous Monitor ID: 42499
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): .15
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3843 Date: 10-7-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☒ Soft Silt ☒

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☒ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☒

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.2
Revised 06/27/2007

Site Information

Site # 3843 Subsegment: 040902 Date: 10-8-08 Time: 1005

Waterbody: Big Branch

Tapedown 1: 10.3 Staff Gauge 1: _____ Gauge Height 1: _____

Site Location[1]: Pa Graci Avenue

Personnel: Ty Yoes, Ross Hartfield

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
Clear ☑
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☑
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☐
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☑ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☑ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: < 1-25% ☐ 26-50% ☑ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: 1005 Temp.(°C): 21.45 pH: 6.11 SpCond(µhmos/cm): 95.9
D.O.: 2.85 D.O. %: 32.5 Salinity: .04 Depth (m): .15 Secchi (in): Bottom
InSitu Probe ID: 42506

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☑ Type of Measurement: Wading ☑ Stationary ☐ Moving Boat ☐
Instrument ID: 6A
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

[1] All work is done within 100 yard radius of Site

Site 3343 Date: 10-8-03

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Comments: The flow was difficult because of the amount of Aquatic Vegetation

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.2
Revised 06/27/2007

Site Information

Site #: 3843 Subsegment: 040902 Date: 10-9-08 Time: 1100

Waterbody: Big Branch

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: @ Grace Avenue

Personnel: Derek Borne, Adam Theben, Stewart Beard

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
Clear ☐
Overcast ☑
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☑
Warm > 75°
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☑
1-5 ☐
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☑

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☑ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☑ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☑ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____
InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: 42499
Continuous Monitor Retrieved: ☑ Continuous Monitor Depth (m): .15
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3843 Date: 10-9-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☑ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☑ Soft Silt ☑

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☑ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☑

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: D.O. %: Salinity: Depth (m):

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.2
Revised 06/27/2007

Site Information

Site #: 3696 Subsegment: 040902 Date: 10-7-08 Time: 1300

Waterbody: Cypress Bayou

Tapedown 1: Staff Gauge 1: Gauge Height 1:

Site Location†: at confluence with Bayou Lacombe

Personnel: A. Tieben, G. LaFleur

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☐
Overcast ☒
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☐
6-10 ☒
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☒
E ☐ W ☐
Variable ☐

Cloud Cover:
0 – 10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☒

Waterbody Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: ____ **Temp.(°C):** ____ **pH:** ____ **SpCond(µhmos/cm):** ____

D.O.: ____ **D.O. %:** ____ **Salinity:** ____ **Depth (m):** ____ **Secchi (in):** ____

InSitu Probe ID: ____

Continuous Monitor Deployed: ☒ Continuous Monitor ID: LD011

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): 1M

Water Level Monitor Deployed: ☐ Instrument ID: ____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: ____

Velocity Monitor Deployed ☐ Instrument ID: ____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): ____ Time (s): ____

Mid Stream Distance (ft): ____ Time (s): ____

Left Descending Bank Distance (ft): ____ Time (s): ____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: ____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: ____

† All work is done within 100 yard radius of Site

Site 3696 Date: 10-7-08

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☒
Man-Made Waterbody: ☐
Waterbody Dry/Intermittent: ☐
Waterbody Bottom: Sandy ☐ Clay ☒ Gravel ☐ Hard Clay ☐ Soft Silt ☒
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☒ Industrial ☐ Field/Pasture ☐ Wetland ☒
Percent Tree Canopy Cover 0-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	
Time:		Temp.(°C):		pH:		Spcond(µhmos/cm):	
D.O.:		D.O. %:		Salinity:		Depth (m):	

Comments:

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.2
Revised 06/27/2007

Site Information

Site #: 3696 Subsegment: 040902 Date: 10.8.08 Time: 11:00

Waterbody: Cypress Bayou

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: @ site

Personnel: L Masden

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
Clear ☑
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☑
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☐
6-10 ☐
11-15 ☑
>16 ☐

Wind Direction:
NW ☑ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☐ 11 – 40% ☑ 41 – 70% ☐ 71 – 100% ☐

Stream Characteristics:
Waterbody Type: Stream ☑
Flowing: ☐ Measurable Flow: ☐ Flow Direction Upstream ☑ Downstream ☐ Tidally Influenced: ☑
Wind Influence: ☑ Wind Influence Direction: Upstream ☑ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** _____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☑ Type of Measurement: Wading ☐ Stationary ☑ Moving Boat ☐

Instrument ID: RC 30D

Stream Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

† All work is done within 100 yard radius of Site

Site 3696 Date: 10-8-08

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Stream Dry/Intermittent: ☐
Stream Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____	Temp.(°C): _____	pH: _____	Spcond(µhmos/cm): _____
D.O.: _____	D.O. %: _____	Salinity: _____	Depth (m): _____
Time: _____	Temp.(°C): _____	pH: _____	Spcond(µhmos/cm): _____
D.O.: _____	D.O. %: _____	Salinity: _____	Depth (m): _____
Time: _____	Temp.(°C): _____	pH: _____	Spcond(µhmos/cm): _____
D.O.: _____	D.O. %: _____	Salinity: _____	Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

Field Site Survey.doc
Revision 4.1
Revised 06/21/2007

Bayou Lac mbe Survey

Site Information

Site #: 3696 Subsegment: 040902 Date: 10-8-08 Time: 1110 hrs.

Waterbody: Cypress Bayou

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location[1]: @ Confluence with Bayou Lacombe

Personnel: Earles, LaFleur

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☐
Mild > 65° ☒
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☐
6-10 ☐
11-15 ☒
>16 ☐

Wind Direction:
NW ☒ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☒ **Water Quality Field Parameters:** ☒ Profiling: ☐

Water Quality Field Parameters

Time: 1110 **Temp.(°C):** 25.27 **pH:** 6.84 **SpCond(µhmos/cm):** 9453
D.O.: 5.35 **D.O. %:** 67.1 **Salinity:** 5.34 **Depth (m):** 1.0 **Secchi (in):** 20
InSitu Probe ID: 43550

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

[1] All work is done within 100 yard radius of Site

Site 3696 Date: 10-8-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

Field Site Survey.doc
Revision 4.2
Revised 06/27/2007

Site Information

Site #: 3696 Subsegment: 040902 Date: 10-9-08 Time: 1305

Waterbody: Cypress Bayou

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: At confluence with Bayou Lacombe

Personnel: J. Earles, G. LaFleur

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☒
Warm > 75° ☐
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☐
1-5 ☒
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☒ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 –10% ☐ 11 – 40% ☒ 41 – 70% ☐ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☒
Flowing: ☐ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☒
Wind Influence: ☒ Wind Influence Direction: Upstream ☒ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☒ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** ____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: LDO 11

Continuous Monitor Retrieved: ☒ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3696 Date: 10-9-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ **Bridge Safe:** ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	**Temp.(°C):**	_____	**pH:**	_____	**Spcond(µhmos/cm):**	_____
D.O.:	_____	**D.O. %:**	_____	**Salinity:**	_____	**Depth (m):**	_____
Time:	_____	**Temp.(°C):**	_____	**pH:**	_____	**Spcond(µhmos/cm):**	_____
D.O.:	_____	**D.O. %:**	_____	**Salinity:**	_____	**Depth (m):**	_____
Time:	_____	**Temp.(°C):**	_____	**pH:**	_____	**Spcond(µhmos/cm):**	_____
D.O.:	_____	**D.O. %:**	_____	**Salinity:**	_____	**Depth (m):**	_____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≡ 0.15 m	20 ≡ 68	25 ≡ 77
1.0 ft ≡ 0.30 m	21 ≡ 69.8	26 ≡ 78.8
1.5 ft ≡ 0.45 m	22 ≡ 71.6	27 ≡ 80.6
2.0 ft ≡ 0.60 m	23 ≡ 73.4	28 ≡ 82.4
2.5 ft ≡ 0.75 m	24 ≡ 75.2	29 ≡ 84.2

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Site Information

Site #: 3882 Subsegment: 040902 Date: 10-7-08 Time: 1140 hrs

Waterbody: Cypress Bayou

Tapedown 1: 5.9 ft Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: @ Grand Road

Personnel: Ty Yocs, Derek Borne

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☐
Overcast ☐
Drizzle/Light Rain ☒
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☒
1-5 ☐
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☒

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☒

Waterbody Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ **Water Quality Field Parameters:** ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ **Temp.(°C):** _____ **pH:** _____ **SpCond(µhmos/cm):** _____

D.O.: _____ **D.O. %:** _____ **Salinity:** _____ **Depth (m):** _____ **Secchi (in):** ____

InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____

Water Level Monitor Deployed: ☒ Instrument ID: #4

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐

Instrument ID: _____

Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐

Right Descending Bank Distance (ft): _____ Time (s): _____

Mid Stream Distance (ft): _____ Time (s): _____

Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐

Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3882 Date: 10-7-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☒ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:		D.O. %:		Salinity:		Depth (m):	

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 3882 Subsegment: 040902 Date: 10-8-08 Time: 1310

Waterbody: ~~[illegible]~~ Cypress Bayou

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: Grand Road

Personnel: Ty Yoes, Ross Hartfield

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
- Clear ☑
- Overcast ☐
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☑
- Mild > 65° ☐
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☑
- 1-5 ☐
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☑

Cloud Cover:
0 – 10% ☑ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☑ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☑ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ Water Quality Field Parameters: ☑ Profiling: ☐

Water Quality Field Parameters

Time: 1310 Temp.(°C): 24.84 pH: 6.41 SpCond(µhmos/cm): 6880
D.O.: .99 D.O. %: 12.3 Salinity: 3.82 Depth (m): 1m Secchi (in): /
InSitu Probe ID: 42506

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site: 3882 Date: 10-8-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☐ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☐

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 3882 Subsegment: 040902 Date: 10/10/08 Time: 0900

Waterbody: Cypress Bayou

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: @ Grand Road

Personnel: Derek Boone, Stewart Beard

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:
Clear ☒
Overcast ☐
Drizzle/Light Rain ☐
Showers ☐

Temperature (°F):
Hot >85° ☐
Warm > 75° ☒
Mild > 65° ☐
Cool > 60° ☐
Cold < 60° ☐

Wind (mph):
<1 ☒
1-5 ☐
6-10 ☐
11-15 ☐
>16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☒

Cloud Cover:
0 –10% ☒ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☒
Flowing: ☒ Measurable Flow: ☒ Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☒ 1-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____
InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: #4 Retrieved

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3882 Date: 10/10/08

Tapedown Established: ☐ Tapedown Location: _____
Benchmark Established: ☐ Benchmark Location: _____
Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐
Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐
Man-Made Waterbody: ☐
Waterbody Dry/Intermittent: ☐
Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒
Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐
Control Structure Present: ☐ Location: _____
Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐
Land Use: Agriculture ☐ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☒
Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☒ 76-100% ☐

Recon Information:
Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____
Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Site Information

Site #: 3883 Subsegment: 040902 Date: 10-8-08 Time: 1205

Waterbody: Cypress Bayou

Tapedown 1: — Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: Farwell Dr.

Personnel: Ty Yoes, Ross Hartfield

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
- Clear ☑
- Overcast ☐
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☑
- Mild > 65° ☐
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☑
- 1-5 ☐
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☑

Cloud Cover:
0 –10% ☑ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☐

Waterbody Characteristics:
Waterbody Type: Stream ☑
Flowing: ☑ Measurable Flow: ☑ Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐
Wind Influence: ☑ Wind Influence Direction: Upstream ☑ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☐ 26-50% ☑ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☑ **Water Quality Field Parameters:** ☑ Profiling: ☐

Water Quality Field Parameters

Time: 1205 **Temp.(°C):** 23.25 **pH:** 6.58 **SpCond(µhmos/cm):** 286.9
D.O.: 1.53 **D.O. %:** 18.0 **Salinity:** .14 **Depth (m):** .45 **Secchi (in):** .5
InSitu Probe ID: 42506

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☑ Type of Measurement: Wading ☑ Stationary ☐ Moving Boat ☐
Instrument ID: 6A
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☑ Type of Measurement Manual: ☑ Fathometer ☐
Fathometer ID: 6A

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3863 Date: 10-8-08

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml)_____

Physical Site Characteristics: Natural Waterbody: ☑ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☑

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☐

Land Use: Agriculture ☑ Forestry ☐ Municipal ☐ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☑ 76-100% ☐

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: D.O. %: Salinity: Depth (m):

Comments: _____

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

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Revised 06/27/2007

Site Information

Site #: 3887 Subsegment: 040902 Date: 10-7-08 Time: 1100

Waterbody: Cypress Bayou

Tapedown 1: _____ Staff Gauge 1: _____ Gauge Height 1: _____

Site Location†: ~~G Bayou~~ Shannon Dr

Personnel: Ty Yoes, Derek Borne

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:
- Clear ☐
- Overcast ☑
- Drizzle/Light Rain ☐
- Showers ☐

Temperature (°F):
- Hot >85° ☐
- Warm > 75° ☑
- Mild > 65° ☐
- Cool > 60° ☐
- Cold < 60° ☐

Wind (mph):
- <1 ☑
- 1-5 ☐
- 6-10 ☐
- 11-15 ☐
- >16 ☐

Wind Direction:
NW ☐ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☑

Cloud Cover:
0 –10% ☐ 11 – 40% ☐ 41 – 70% ☐ 71 – 100% ☑

Waterbody Characteristics:
Waterbody Type: Stream ☑
Flowing: ☐ Measurable Flow: ☐ Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

Waterbody Type: Lake ☐ Wind Influence: ☐ Tidally Influenced: ☐

Algae Present ☐ Sedimentation/Turbidity Present in Water Column ☐
Floating/Aquatic Vegetation % Surface Coverage: <1 ☐ 1-25% ☑ 26-50% ☐ 51-75% ☐ 76-100% ☐

Water Quality Samples Taken: ☐ Water Quality Field Parameters: ☐ Profiling: ☐

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ SpCond(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____
InSitu Probe ID: _____

Continuous Monitor Deployed: ☐ Continuous Monitor ID: _____
Continuous Monitor Retrieved: ☐ Continuous Monitor Depth (m): _____
Water Level Monitor Deployed: ☐ Instrument ID: _____

Flow Measurement: ☐ Type of Measurement: Wading ☐ Stationary ☐ Moving Boat ☐
Instrument ID: _____
Velocity Monitor Deployed ☐ Instrument ID: _____

Velocity Estimated: ☐ Drogue Estimate: ☐ Dye Estimate: ☐
Right Descending Bank Distance (ft): _____ Time (s): _____
Mid Stream Distance (ft): _____ Time (s): _____
Left Descending Bank Distance (ft): _____ Time (s): _____

Cross Section Measurement: ☐ Type of Measurement Manual: ☐ Fathometer ☐
Fathometer ID: _____

GPS Measurement: ☐ Site GPS: ☐ Cross Section GPS: ☐

Photos Taken: ☐ Picture File #s: _____

† All work is done within 100 yard radius of Site

Site 3887 Date: 10-7-09

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☐ Benchmark Location: _____

Survey Equipment Used: ☐

Time of Travel Measurement: ☐ Type of Site: Injection ☐ Collection ☐

Amount of Dye Injected (ml): _____

Physical Site Characteristics: Natural Waterbody: ☒ Man Altered Waterbody: ☐

Man-Made Waterbody: ☐

Waterbody Dry/Intermittent: ☐

Waterbody Bottom: Sandy ☐ Clay ☐ Gravel ☐ Hard Clay ☐ Soft Silt ☒

Sand/Silt ☐ Rock/Gravel/Silt ☐ Concrete ☐

Control Structure Present: ☐ Location: _____

Type: Man Made Dam ☐ Flow Regulation Device ☐ Beaver Dam ☐ Log Jam ☒

Land Use: Agriculture ☐ Forestry ☐ Municipal ☒ Industrial ☐ Field/Pasture ☐ Wetland ☐

Percent Tree Canopy Cover 0-25% ☐ 26-50% ☐ 51-75% ☐ 76-100% ☒

Recon Information:

Discharge Measurement: Wading ☐ Boat ☐ Stream Depth (ft): _____

Continuous Monitor Deployment: Fixed: ☐ Bouy: ☐

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Height: _____

Profiling Measurements:

Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:	_____	D.O. %:	_____	Salinity:	_____	Depth (m):	_____
Time:	_____	Temp.(°C):	_____	pH:	_____	Spcond(µhmos/cm):	_____
D.O.:		D.O. %:		Salinity:		Depth (m):	

Comments: We are abandoning this site because it is pooled and clogged with debris.

References

Convert Feet to Meters	Convert Celsius to Fahrenheit	
0.5 ft ≅ 0.15 m	20 ≅ 68	25 ≅ 77
1.0 ft ≅ 0.30 m	21 ≅ 69.8	26 ≅ 78.8
1.5 ft ≅ 0.45 m	22 ≅ 71.6	27 ≅ 80.6
2.0 ft ≅ 0.60 m	23 ≅ 73.4	28 ≅ 82.4
2.5 ft ≅ 0.75 m	24 ≅ 75.2	29 ≅ 84.2

Field Site Survey.doc
Revision 4.2
Revised 06/27/2007

Appendix F4 – Continuous Monitor

Bayou Lacombe and Tributaries - Continuous Monitor Data Summary

Site	RKM		Temp (C)	pH (units)	SpCond (umhos/cm)	DO % Sat	DO (mg/L)	Salinity (ppt)
BL01 (2270)	31.0	Average	20.85	5.64	51.61	58.46	5.23	0.01
		Minimum	20.53	5.62	51.00	56.20	5.05	0.01
		Maximum	21.39	5.68	52.00	60.60	5.37	0.01
BL02 (1250)	25.2	Average	21.28	5.90	56.00	87.50	7.76	0.00
		Minimum	20.80	5.90	56.00	83.30	7.40	0.00
		Maximum	22.60	5.90	56.00	93.90	8.10	0.00
BL03 (3690)	20.3	Average	22.03	6.52	58.04	94.57	8.27	0.00
		Minimum	21.80	6.50	58.00	91.20	8.00	0.00
		Maximum	22.70	6.60	59.00	99.90	8.60	0.00
BL04 (3692)	18.9	Average	22.64	6.32	57.00	91.01	7.86	0.02
		Minimum	22.30	6.25	57.00	87.50	7.58	0.01
		Maximum	23.60	6.43	57.00	97.30	8.25	0.02
BL05 (3693)	13.2	Average	23.12	6.02	695.91	45.90	3.92	0.36
		Minimum	22.98	6.00	530.00	33.30	2.82	0.27
		Maximum	23.43	6.05	1327.00	49.90	4.27	0.70
BL06 (0300)	10.9	Average	25.47	6.41	8517.43	1.82	*	4.78
		Minimum	25.38	6.37	7654.00	1.60	*	4.27
		Maximum	25.55	6.46	9293.00	3.30	*	5.24
BL07 (3695)	8.7	Average	25.85	6.65	7320.26	50.63	4.03	4.08
		Minimum	25.74	6.63	6971.00	34.90	2.78	3.88
		Maximum	26.31	6.71	7733.00	83.70	6.67	4.32
BL08 (3697)	6.1	Average	25.49	6.92	9327.57	70.47	5.60	5.26
		Minimum	25.00	6.90	8923.00	60.40	4.90	5.00
		Maximum	26.40	7.00	9760.00	84.50	6.60	5.50
BL09 (3698)	0.3	Average	24.97	7.35	12287.04	77.91	6.19	7.05
		Minimum	24.40	7.20	12222.00	65.00	5.20	7.00
		Maximum	25.40	7.50	12349.00	95.40	7.50	7.10
LP01 (3699)	Lake Pont.	Average	24.97	7.65	12216.09	89.93	7.14	7.02
		Minimum	24.80	7.50	12150.00	83.90	6.70	7.00
		Maximum	25.20	7.70	12322.00	94.00	7.40	7.10
BB03 (3843)	5.2	Average	21.66	5.97	95.61	30.66	2.72	0.00
		Minimum	21.40	5.90	94.00	26.70	2.40	0.00
		Maximum	21.90	6.00	98.00	37.60	3.30	0.00
BB02 (3842)	2.0	Average	23.10	6.20	661.00	18.47	1.58	0.35
		Minimum	23.00	6.10	392.00	7.70	0.70	0.20
		Maximum	23.40	6.20	1269.00	22.40	1.90	0.70
BB01 (3694)	0.3	Average	25.83	6.36	7508.78	21.75	1.73	4.19
		Minimum	25.58	6.31	6945.00	2.10	0.17	3.86
		Maximum	26.11	6.42	8206.00	36.30	2.89	4.60
CB03 (3883)	4.9	Average						
		Minimum	#					
		Maximum						
CB02 (3882)	2.9	Average						
		Minimum	#					
		Maximum						
CB01 (3696)	0.2	Average						
		Minimum	*					
		Maximum						

BL=Bayou Lacombe
BB=Big Branch Bayou
CB=Cypress Bayou
LP=Lake Pontchartrain

* Equipment malfunction
# Continuous monitor was not deployed at this site

CONTINUOUS MONITOR 0300: STA BL06

MiniSonde 5 42500
Log File Name : 0300 cm 100708
Setup Date (M/D/YYYY) : 10/6/2008
Setup Time (HH:MM:SS) : 14:27:51
Starting Date (M/D/YYYY) : 10/7/2008
Starting Time (HH:MM:SS) : 08:00:00
Stopping Date (M/D/YYYY) :
10/9/2008
Stopping Time (HH:MM:SS) : 23:59:59
Interval (HH:MM:SS) : 00:15:00
Sensor warmup (HH:MM:SS) : 00:00:30
Circltr warmup (HH:MM:SS) :
00:00:30

Date M/D/YYYY	Time HH:MM:SS	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l	READING NUMBER
10/7/2008	8:00:00	26.21	7.99	0.46	885	91.5	7.37	0
10/7/2008	8:15:00	26.4	7.99	0.46	887	91.4	7.35	1
10/7/2008	8:30:00	26.6	7.99	0.46	890	91.7	7.34	2
10/7/2008	8:45:00	26.93	7.99	0.46	889	91.6	7.29	3
10/7/2008	9:00:00	27.3	7.98	0.48	916	91.7	7.25	4
10/7/2008	9:15:00	27.41	7.98	0.6	1144	91.9	7.24	5
10/7/2008	9:30:00	27.38	7.98	0.48	914	92.1	7.27	6
10/7/2008	9:45:00	27.36	8	0.51	983	92	7.27	7
10/7/2008	10:00:00	27.41	7.99	0.45	861	92.6	7.3	8
10/7/2008	10:15:00	27.55	7.99	0.74	1391	94.9	7.45	9
10/7/2008	10:30:00	27.72	7.99	0.48	918	95	7.45	10
10/7/2008	10:45:00	28.16	7.95	1.01	1899	96.7	7.5	11

10/7/2008	11:00:00	25.86	6.51	5.98	10531	4.3	0.34	12
10/7/2008	11:15:00	25.77	6.51	5.9	10400	3.1	0.24	13
10/7/2008	11:30:00	25.76	6.52	5.94	10475	2.2	0.17	14
10/7/2008	11:45:00	25.75	6.54	6.12	10764	2.2	0.17	15
10/7/2008	12:00:00	25.75	6.54	6.01	10589	2	0.16	16
10/7/2008	12:15:00	25.75	6.54	6.03	10618	2	0.16	17
10/7/2008	12:30:00	25.75	6.54	5.98	10529	2.1	0.16	18
10/7/2008	12:45:00	25.76	6.53	5.96	10502	1.9	0.15	19
10/7/2008	13:00:00	25.76	6.52	5.88	10373	1.9	0.15	20
10/7/2008	13:15:00	25.76	6.52	5.92	10444	1.8	0.14	21
10/7/2008	13:30:00	25.77	6.52	5.91	10425	1.7	0.14	22
10/7/2008	13:45:00	25.76	6.51	5.9	10408	1.8	0.14	23
10/7/2008	14:00:00	25.76	6.5	5.65	9992	1.8	0.14	24
10/7/2008	14:15:00	25.77	6.51	5.86	10330	1.7	0.14	25
10/7/2008	14:30:00	25.77	6.53	5.96	10496	1.7	0.14	26
10/7/2008	14:45:00	25.77	6.53	5.9	10400	1.8	0.14	27
10/7/2008	15:00:00	25.77	6.53	5.96	10508	1.9	0.15	28
10/7/2008	15:15:00	25.78	6.53	5.98	10529	1.7	0.14	29
10/7/2008	15:30:00	25.77	6.55	5.98	10543	1.7	0.14	30
10/7/2008	15:45:00	25.77	6.55	5.97	10527	1.8	0.14	31
10/7/2008	16:00:00	25.77	6.54	5.96	10496	1.7	0.14	32
10/7/2008	16:15:00	25.77	6.53	5.86	10328	1.7	0.14	33
10/7/2008	16:30:00	25.77	6.53	5.93	10460	1.7	0.14	34
10/7/2008	16:45:00	25.75	6.52	5.57	9846	1.8	0.14	35
10/7/2008	17:00:00	25.73	6.49	5.58	9877	1.7	0.14	36
10/7/2008	17:15:00	25.72	6.47	5.6	9903	1.7	0.13	37
10/7/2008	17:30:00	25.64	6.48	5.39	9548	1.7	0.14	38
10/7/2008	17:45:00	25.69	6.44	5.54	9799	1.7	0.13	39
10/7/2008	18:00:00	25.6	6.42	5.16	9155	1.7	0.14	40
10/7/2008	18:15:00	25.62	6.42	5.43	9619	1.7	0.14	41
10/7/2008	18:30:00	25.6	6.42	5.33	9446	1.7	0.13	42
10/7/2008	18:45:00	25.57	6.42	5.21	9245	1.7	0.13	43

10/7/2008	19:00:00	25.58	6.44	5.47	9680	1.7	0.13	44
10/7/2008	19:15:00	25.59	6.45	5.37	9515	1.6	0.13	45
10/7/2008	19:30:00	25.63	6.47	5.65	9989	1.7	0.13	46
10/7/2008	19:45:00	25.64	6.48	5.65	9981	1.7	0.13	47
10/7/2008	20:00:00	25.62	6.46	5.53	9780	1.7	0.13	48
10/7/2008	20:15:00	25.59	6.45	5.33	9442	1.6	0.13	49
10/7/2008	20:30:00	25.57	6.43	5.25	9320	1.6	0.13	50
10/7/2008	20:45:00	25.56	6.44	5.3	9400	1.6	0.13	51
10/7/2008	21:00:00	25.55	6.45	5.18	9202	1.6	0.13	52
10/7/2008	21:15:00	25.54	6.43	5.12	9100	1.6	0.13	53
10/7/2008	21:30:00	25.57	6.45	5.37	9513	1.6	0.13	54
10/7/2008	21:45:00	25.56	6.46	5.32	9438	1.6	0.13	55
10/7/2008	22:00:00	25.58	6.45	5.35	9487	1.6	0.13	56
10/7/2008	22:15:00	25.58	6.45	5.34	9464	1.6	0.13	57
10/7/2008	22:30:00	25.54	6.43	5.2	9228	1.6	0.13	58
10/7/2008	22:45:00	25.52	6.42	5.14	9121	1.6	0.13	59
10/7/2008	23:00:00	25.53	6.45	5.18	9190	1.6	0.13	60
10/7/2008	23:15:00	25.57	6.46	5.41	9583	1.6	0.13	61
10/7/2008	23:30:00	25.57	6.46	5.4	9574	1.6	0.13	62
10/7/2008	23:45:00	25.56	6.46	5.32	9428	1.6	0.13	63
10/8/2008	0:00:00	25.61	6.46	5.5	9732	1.6	0.13	64
10/8/2008	0:15:00	25.58	6.46	5.34	9469	1.6	0.13	65
10/8/2008	0:30:00	25.57	6.44	5.38	9540	1.6	0.13	66
10/8/2008	0:45:00	25.46	6.42	4.93	8765	1.6	0.13	67
10/8/2008	1:00:00	25.57	6.45	5.35	9476	1.6	0.13	68
10/8/2008	1:15:00	25.55	6.44	5.21	9252	1.6	0.12	69
10/8/2008	1:30:00	25.56	6.47	5.46	9670	1.6	0.13	70
10/8/2008	1:45:00	25.53	6.43	5.16	9167	1.6	0.13	71
10/8/2008	2:00:00	25.52	6.43	5.06	9000	1.6	0.13	72
10/8/2008	2:15:00	25.51	6.43	5.03	8936	1.6	0.13	73
10/8/2008	2:30:00	25.52	6.43	5.03	8936	1.6	0.13	74
10/8/2008	2:45:00	25.56	6.45	5.35	9479	1.6	0.12	75

10/8/2008	3:00:00	25.54	6.46	5.25	9310	1.6	0.13	76
10/8/2008	3:15:00	25.57	6.46	5.38	9535	1.6	0.13	77
10/8/2008	3:30:00	25.57	6.47	5.36	9506	1.6	0.12	78
10/8/2008	3:45:00	25.56	6.46	5.26	9338	1.6	0.13	79
10/8/2008	4:00:00	25.57	6.46	5.32	9430	1.6	0.12	80
10/8/2008	4:15:00	25.56	6.47	5.31	9406	1.6	0.12	81
10/8/2008	4:30:00	25.56	6.47	5.35	9484	1.6	0.13	82
10/8/2008	4:45:00	25.54	6.46	5.26	9329	1.6	0.13	83
10/8/2008	5:00:00	25.49	6.45	4.99	8881	1.6	0.13	84
10/8/2008	5:15:00	25.51	6.43	5.03	8941	1.6	0.13	85
10/8/2008	5:30:00	25.53	6.44	5.15	9145	1.6	0.13	86
10/8/2008	5:45:00	25.49	6.44	5.28	9369	1.6	0.13	87
10/8/2008	6:00:00	25.47	6.44	4.96	8824	1.6	0.12	88
10/8/2008	6:15:00	25.56	6.47	5.37	9514	1.6	0.13	89
10/8/2008	6:30:00	25.55	6.47	5.3	9392	1.6	0.13	90
10/8/2008	6:45:00	25.54	6.46	5.25	9312	1.6	0.13	91
10/8/2008	7:00:00	25.52	6.45	5.1	9060	1.6	0.13	92
10/8/2008	7:15:00	25.5	6.45	5.1	9055	1.6	0.13	93
10/8/2008	7:30:00	25.51	6.44	5.14	9124	1.6	0.13	94
10/8/2008	7:45:00	25.55	6.46	5.24	9293	1.6	0.13	95
10/8/2008	8:00:00	25.51	6.44	5.03	8940	1.6	0.12	96
10/8/2008	8:15:00	25.46	6.43	4.86	8650	1.6	0.13	97
10/8/2008	8:30:00	25.41	6.4	4.7	8377	1.6	0.13	98
10/8/2008	8:45:00	25.4	6.4	4.65	8305	1.6	0.13	99
10/8/2008	9:00:00	25.38	6.4	4.49	8026	1.6	0.13	100
10/8/2008	9:15:00	25.38	6.41	4.27	7654	1.6	0.13	101
10/8/2008	9:30:00	25.42	6.41	4.8	8554	1.6	0.13	102
10/8/2008	9:45:00	25.39	6.42	4.47	7986	1.6	0.13	103
10/8/2008	10:00:00	25.46	6.42	4.95	8799	1.6	0.13	104
10/8/2008	10:15:00	25.41	6.4	4.6	8212	1.6	0.12	105
10/8/2008	10:30:00	25.46	6.42	4.77	8509	1.6	0.13	106
10/8/2008	10:45:00	25.44	6.41	4.74	8444	1.7	0.14	107

10/8/2008	11:00:00	25.53	6.45	5.1	9067	1.6	0.13	108
10/8/2008	11:15:00	25.49	6.42	4.66	8312	1.6	0.13	109
10/8/2008	11:30:00	25.5	6.42	4.78	8526	1.6	0.13	110
10/8/2008	11:45:00	25.52	6.42	5.17	9172	1.7	0.14	111
10/8/2008	12:00:00	25.54	6.43	5.11	9076	1.7	0.13	112
10/8/2008	12:15:00	25.55	6.42	4.94	8798	1.6	0.13	113
10/8/2008	12:30:00	25.53	6.41	4.8	8549	1.6	0.13	114
10/8/2008	12:45:00	25.49	6.39	4.65	8296	3.1	0.25	115
10/8/2008	13:00:00	25.44	6.37	4.49	8032	3.2	0.26	116
10/8/2008	13:15:00	25.49	6.38	4.67	8324	3.3	0.27	117
10/8/2008	13:30:00	25.45	6.37	4.37	7826	4	0.32	118
10/8/2008	13:45:00	25.47	6.37	4.39	7861	4.7	0.38	119
10/8/2008	14:00:00	25.45	6.36	4.19	7514	4.6	0.37	120
10/8/2008	14:15:00	25.52	6.38	4.64	8278	1.9	0.15	121
10/8/2008	14:30:00	25.55	6.38	4.73	8435	2.2	0.17	122
10/8/2008	14:45:00	25.51	6.38	4.52	8083	2.2	0.18	123
10/8/2008	15:00:00	25.5	6.37	4.51	8055	1.9	0.15	124
10/8/2008	15:15:00	25.51	6.37	4.54	8111	2.4	0.19	125
10/8/2008	15:30:00	25.45	6.36	4.3	7706	3.4	0.27	126
10/8/2008	15:45:00	25.48	6.37	4.29	7691	2.1	0.17	127
10/8/2008	16:00:00	25.54	6.38	4.94	8782	1.9	0.15	128
10/8/2008	16:15:00	25.44	6.36	4.41	7888	2.7	0.22	129
10/8/2008	16:30:00	25.43	6.36	4.1	7355	3.7	0.3	130
10/8/2008	16:45:00	25.33	6.34	4.54	8118	5.3	0.43	131
10/8/2008	17:00:00	25.26	6.33	3.95	7091	6.2	0.5	132
10/8/2008	17:15:00	25.37	6.34	4.18	7502	4.9	0.39	133
10/8/2008	17:30:00	25.29	6.34	3.88	6972	6.1	0.49	134
10/8/2008	17:45:00	25.21	6.32	3.85	6924	5.3	0.43	135
10/8/2008	18:00:00	25.25	6.32	3.81	6857	5.7	0.46	136
10/8/2008	18:15:00	25.2	6.33	3.84	6909	3.2	0.25	137
10/8/2008	18:30:00	24.98	6.3	3.03	5498	5.9	0.48	138
10/8/2008	18:45:00	25.03	6.3	3.12	5653	7.7	0.63	139

10/8/2008	19:00:00	24.94	6.27	2.46	4502	17.8	1.45	140
10/8/2008	19:15:00	25.12	6.28	3.05	5534	12.7	1.03	141
10/8/2008	19:30:00	24.96	6.25	2.21	4061	18.3	1.5	142
10/8/2008	19:45:00	24.99	6.27	2.84	5174	14.6	1.19	143
10/8/2008	20:00:00	25.03	6.25	2.19	4020	20.8	1.7	144
10/8/2008	20:15:00	25.05	6.27	2.51	4588	14.2	1.16	145
10/8/2008	20:30:00	25.09	6.25	2.67	4876	17.2	1.4	146
10/8/2008	20:45:00	24.84	6.22	2.01	3695	20.5	1.68	147
10/8/2008	21:00:00	24.93	6.21	1.91	3522	22.4	1.83	148
10/8/2008	21:15:00	24.91	6.23	2.17	3978	21.3	1.74	149
10/8/2008	21:30:00	24.75	6.24	1.73	3201	17.3	1.42	150
10/8/2008	21:45:00	24.94	6.23	1.87	3446	23	1.88	151
10/8/2008	22:00:00	24.79	6.21	1.79	3300	15.7	1.29	152
10/8/2008	22:15:00	24.86	6.23	2.27	4161	20.6	1.68	153
10/8/2008	22:30:00	24.56	6.21	1.76	3248	16.7	1.38	154
10/8/2008	22:45:00	24.71	6.19	1.63	3018	26.5	2.18	155
10/8/2008	23:00:00	24.85	6.2	1.67	3093	27.8	2.28	156
10/8/2008	23:15:00	24.76	6.22	1.98	3639	18.1	1.48	157
10/8/2008	23:30:00	24.72	6.21	1.97	3632	30.1	2.47	158
10/8/2008	23:45:00	24.17	6.19	0.95	1780	35.8	2.99	159
10/9/2008	0:00:00	24.22	6.13	1.07	1997	41.2	3.44	160
10/9/2008	0:15:00	24.13	6.19	0.98	1841	34.3	2.87	161
10/9/2008	0:30:00	24.04	6.19	1.19	2221	31.1	2.6	162
10/9/2008	0:45:00	24.49	6.15	1.28	2388	33.7	2.79	163
10/9/2008	1:00:00	23.92	6.16	0.9	1696	34.6	2.9	164
10/9/2008	1:15:00	23.84	6.15	0.94	1763	28.2	2.37	165
10/9/2008	1:30:00	23.87	6.13	1.19	2217	31.6	2.65	166
10/9/2008	1:45:00	23.75	6.15	0.82	1542	30	2.53	167
10/9/2008	2:00:00	23.68	6.12	0.8	1512	35.1	2.96	168
10/9/2008	2:15:00	23.69	6.12	0.81	1526	35.7	3.01	169
10/9/2008	2:30:00	23.57	6.12	0.83	1566	36.3	3.07	170
10/9/2008	2:45:00	23.76	6.12	0.98	1845	37.1	3.12	171

10/9/2008	3:00:00	23.5	6.13	0.8	1517	36.3	3.07	172
10/9/2008	3:15:00	23.67	6.12	1.03	1928	34.8	2.93	173
10/9/2008	3:30:00	23.7	6.13	0.88	1661	36.5	3.08	174
10/9/2008	3:45:00	23.37	6.12	0.81	1529	38.9	3.3	175
10/9/2008	4:00:00	23.31	6.11	0.77	1449	39.5	3.35	176
10/9/2008	4:15:00	23.35	6.11	0.8	1504	38.9	3.3	177
10/9/2008	4:30:00	23.29	6.11	0.91	1715	36.1	3.07	178
10/9/2008	4:45:00	23.24	6.1	0.77	1451	35.7	3.04	179
10/9/2008	5:00:00	23.19	6.1	0.97	1814	39	3.32	180
10/9/2008	5:15:00	23.19	6.09	0.89	1668	38.8	3.3	181
10/9/2008	5:30:00	23.09	6.1	0.82	1541	36.7	3.13	182
10/9/2008	5:45:00	22.97	6.09	0.72	1368	38.2	3.26	183
10/9/2008	6:00:00	22.96	6.08	0.72	1365	38.5	3.29	184
10/9/2008	6:15:00	22.93	6.09	0.73	1373	38	3.25	185
10/9/2008	6:30:00	22.89	6.08	0.74	1393	38	3.25	186
10/9/2008	6:45:00	22.88	6.09	0.74	1394	33.7	2.88	187
10/9/2008	7:00:00	22.82	6.1	0.73	1372	35.3	3.03	188
10/9/2008	7:15:00	22.79	6.1	0.85	1594	33.9	2.9	189
10/9/2008	7:30:00	23.37	6.18	2.59	4721	11.6	0.98	190
10/9/2008	7:45:00	24.03	6.24	2.84	5166	4.9	0.4	191
10/9/2008	8:00:00	23.6	6.25	1.93	3550	2.2	0.18	192
10/9/2008	8:15:00	23.66	6.25	1.85	3404	2.5	0.21	193
10/9/2008	8:30:00	24.03	6.29	2.66	4860	1.9	0.15	194
10/9/2008	8:45:00	24.32	6.29	3.32	6008	1.8	0.15	195
10/9/2008	9:00:00	24.24	6.29	3.32	6007	1.8	0.14	196
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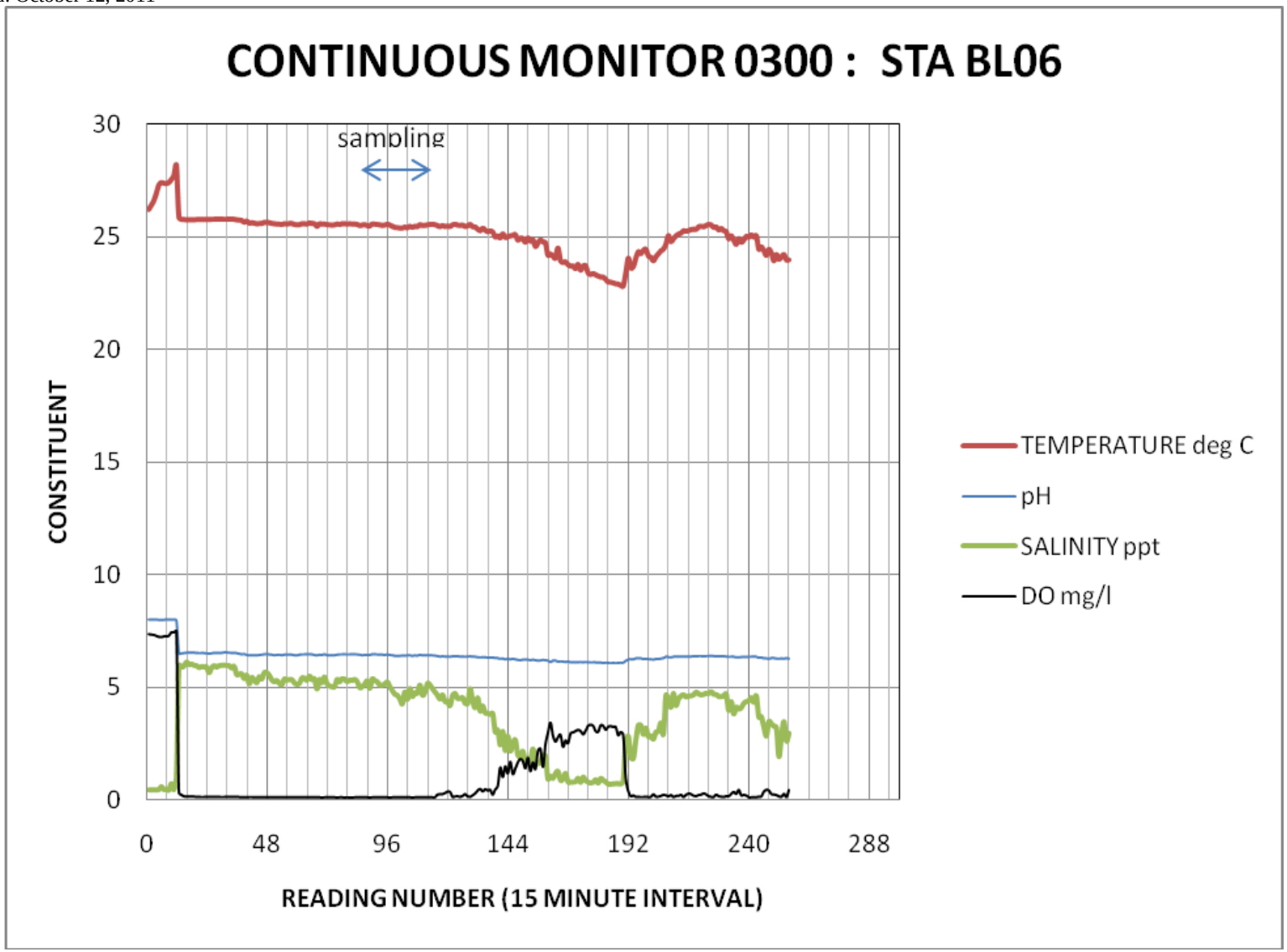
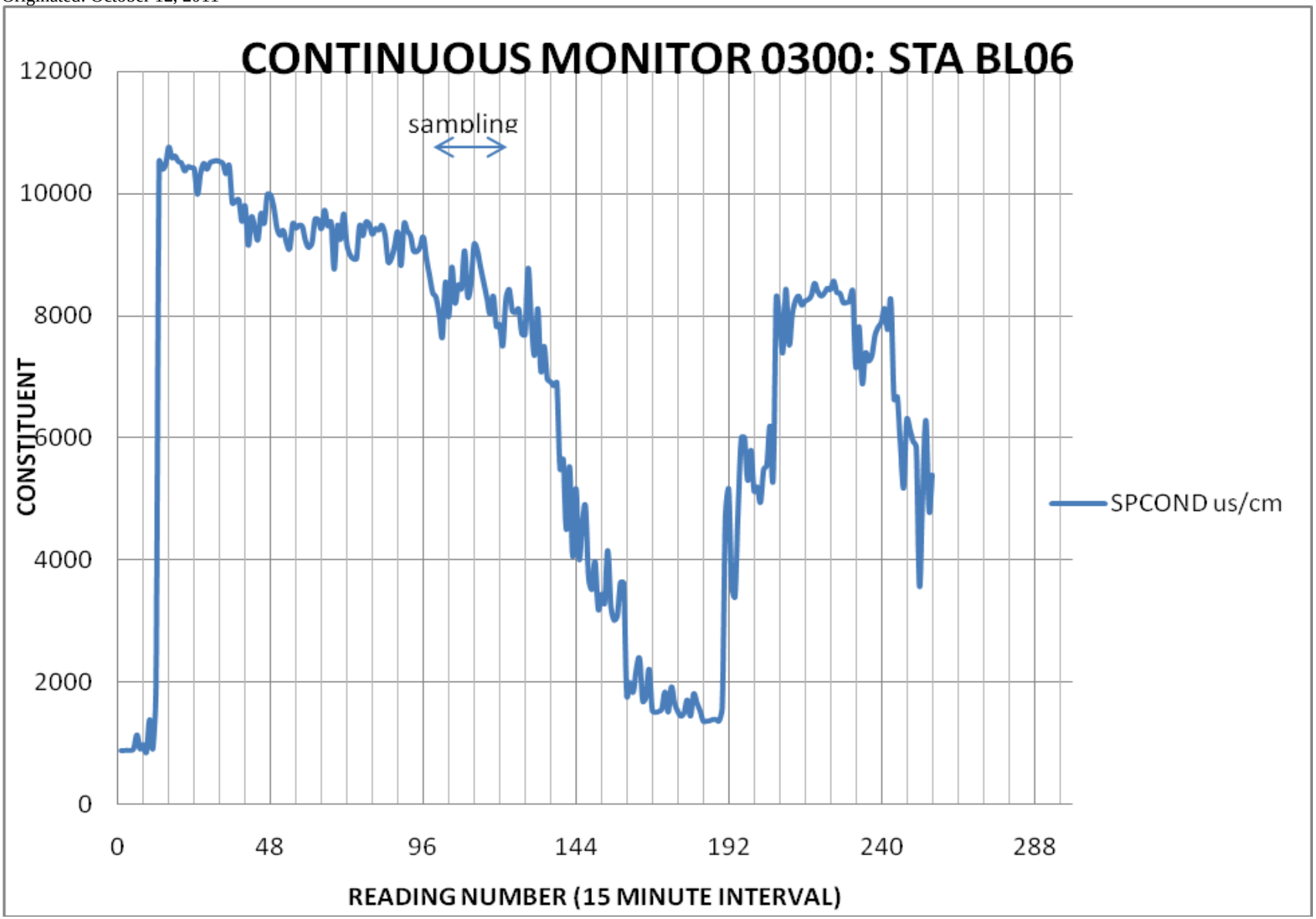
10/9/2008	9:45:00	24.14	6.26	2.82	5131	1.7	0.14	199
10/9/2008	10:00:00	24.08	6.25	2.86	5202	1.9	0.15	200
10/9/2008	10:15:00	23.92	6.24	2.71	4948	3.2	0.26	201
10/9/2008	10:30:00	24.1	6.26	3.02	5486	2	0.16	202
10/9/2008	10:45:00	24.23	6.26	3.06	5558	2	0.16	203

10/9/2008	11:00:00	24.36	6.28	3.43	6196	2.4	0.19	204
10/9/2008	11:15:00	24.44	6.3	2.94	5340	2.9	0.24	205
10/9/2008	11:30:00	24.66	6.36	4.65	8294	2.7	0.22	206
10/9/2008	11:45:00	25.04	6.35	4.47	7983	2.1	0.17	207
10/9/2008	12:00:00	24.78	6.33	4.12	7399	2.9	0.23	208
10/9/2008	12:15:00	24.9	6.36	4.73	8438	1.8	0.14	209
10/9/2008	12:30:00	25.03	6.36	4.2	7529	2.3	0.19	210
10/9/2008	12:45:00	25.11	6.36	4.49	8023	2.4	0.19	211
10/9/2008	13:00:00	25.15	6.37	4.62	8251	3	0.24	212
10/9/2008	13:15:00	25.26	6.37	4.67	8325	1.8	0.14	213
10/9/2008	13:30:00	25.23	6.37	4.58	8177	3	0.24	214
10/9/2008	13:45:00	25.26	6.37	4.62	8243	3.6	0.29	215
10/9/2008	14:00:00	25.31	6.37	4.63	8268	3.4	0.27	216
10/9/2008	14:15:00	25.33	6.38	4.67	8336	2.5	0.2	217
10/9/2008	14:30:00	25.32	6.38	4.79	8533	2.2	0.18	218
10/9/2008	14:45:00	25.43	6.39	4.71	8404	2.9	0.23	219
10/9/2008	15:00:00	25.46	6.39	4.67	8327	3.1	0.25	220
10/9/2008	15:15:00	25.44	6.38	4.69	8366	3.8	0.3	221
10/9/2008	15:30:00	25.49	6.39	4.74	8452	3.3	0.26	222
10/9/2008	15:45:00	25.54	6.39	4.73	8432	2.2	0.18	223
10/9/2008	16:00:00	25.52	6.39	4.81	8571	1.9	0.15	224
10/9/2008	16:15:00	25.41	6.39	4.7	8385	1.8	0.14	225
10/9/2008	16:30:00	25.43	6.38	4.69	8370	3.2	0.25	226
10/9/2008	16:45:00	25.3	6.38	4.6	8217	2.3	0.18	227
10/9/2008	17:00:00	25.36	6.38	4.6	8220	2.1	0.16	228
10/9/2008	17:15:00	25.26	6.38	4.62	8244	1.7	0.14	229
10/9/2008	17:30:00	25.22	6.37	4.71	8407	2.3	0.18	230
10/9/2008	17:45:00	24.9	6.36	3.98	7158	2.2	0.18	231
10/9/2008	18:00:00	25.03	6.36	4.37	7825	3.5	0.28	232
10/9/2008	18:15:00	24.84	6.36	3.83	6893	4.5	0.37	233
10/9/2008	18:30:00	24.65	6.33	4.12	7389	3.4	0.28	234
10/9/2008	18:45:00	24.91	6.33	4.04	7262	5.7	0.46	235

10/9/2008	19:00:00	24.75	6.35	4.1	7350	2.6	0.21	236
10/9/2008	19:15:00	24.84	6.35	4.29	7676	3	0.24	237
10/9/2008	19:30:00	25.01	6.35	4.37	7815	2.6	0.21	238
10/9/2008	19:45:00	24.97	6.36	4.41	7895	1.7	0.13	239
10/9/2008	20:00:00	25.07	6.36	4.55	8122	1.6	0.13	240
10/9/2008	20:15:00	24.98	6.36	4.34	7776	1.7	0.13	241
10/9/2008	20:30:00	25.04	6.36	4.62	8249	1.6	0.13	242
10/9/2008	20:45:00	24.44	6.32	3.68	6632	2	0.16	243
10/9/2008	21:00:00	24.54	6.33	3.71	6678	2	0.17	244
10/9/2008	21:15:00	24.37	6.29	3.25	5887	4.6	0.38	245
10/9/2008	21:30:00	24.16	6.29	2.85	5186	5.6	0.46	246
10/9/2008	21:45:00	24.43	6.27	3.49	6305	5.2	0.43	247
10/9/2008	22:00:00	24.27	6.3	3.39	6137	3.3	0.27	248
10/9/2008	22:15:00	23.92	6.3	3.28	5944	3.2	0.26	249
10/9/2008	22:30:00	24.2	6.28	3.23	5847	2.8	0.23	250
10/9/2008	22:45:00	23.99	6.27	1.94	3576	2.1	0.17	251
10/9/2008	23:00:00	24.08	6.29	2.82	5125	1.9	0.15	252
10/9/2008	23:15:00	24.2	6.27	3.48	6291	3.4	0.28	253
10/9/2008	23:30:00	23.96	6.3	2.63	4807	1.7	0.14	254
10/9/2008	23:45:00	23.96	6.28	2.97	5397	5.4	0.45	255


CONTINUOUS MONITOR 0300 : STA BL06
sampling
30
25
20
15
10
5
0
CONSTITUENT
0
48
96
144
192
240
288
READING NUMBER (15 MINUTE INTERVAL)
TEMPERATURE deg C
pH
SALINITY ppt
DO mg/l


CONTINUOUS MONITOR 0300: STA BL06
sampling
12000
10000
8000
6000
4000
2000
0
CONSTITUENT
0
48
96
144
192
240
288
READING NUMBER (15 MINUTE INTERVAL)
SPCOND us/cm

CONTINUOUS MONITOR 1250: STA BL02

MiniSonde 5 43545
Log File Name : 1250
Setup Date (M/D/YYYY) : 10/6/2008
Setup Time (HH:MM:SS) : 10:22:20
Starting Date (M/D/YYYY) : 10/7/2008
Starting Time (HH:MM:SS) : 07:30:00
Stopping Date (M/D/YYYY) : 10/9/2008
Stopping Time (HH:MM:SS) : 23:59:59
Interval (HH:MM:SS) : 00:15:00
Sensor warmup (HH:MM:SS) : 00:00:30
Circltr warmup (HH:MM:SS) : 00:00:30

Date M/D/YYYY	Time HH:MM:SS	Temp °C	pH Units	SpCond µS/cm	Sal ppt	LDO% Sat	LDO mg/l	READING NUMBER
10/7/2008	9:45:00	21.5	5.8	57	0	85.1	7.5	0
10/7/2008	10:00:00	21.6	5.8	57	0	85.7	7.6	1
10/7/2008	10:15:00	21.7	5.8	57	0	86.3	7.6	2
10/7/2008	10:30:00	21.8	5.8	56	0	87	7.6	3
10/7/2008	10:45:00	21.8	5.8	56	0	87.5	7.7	4
10/7/2008	11:00:00	21.9	5.8	57	0	87.8	7.7	5
10/7/2008	11:15:00	22.1	5.8	56	0	88.7	7.7	6
10/7/2008	11:30:00	22.2	5.8	57	0	89.4	7.8	7
10/7/2008	11:45:00	22.3	5.8	57	0	90	7.8	8
10/7/2008	12:00:00	22.4	5.9	57	0	90.7	7.9	9
10/7/2008	12:15:00	22.6	5.9	57	0	91.5	7.9	10
10/7/2008	12:30:00	22.7	5.9	57	0	91.9	7.9	11
10/7/2008	12:45:00	22.9	5.9	57	0	92.7	8	12
10/7/2008	13:00:00	23.1	5.9	57	0	93.3	8	13
10/7/2008	13:15:00	23.2	5.9	56	0	94.1	8	14
10/7/2008	13:30:00	23.3	5.9	57	0	94.2	8	15
10/7/2008	13:45:00	23.6	5.9	57	0	95	8.1	16
10/7/2008	14:00:00	23.7	5.9	56	0	95.6	8.1	17
10/7/2008	14:15:00	23.7	5.9	57	0	95.2	8.1	18

10/7/2008	14:30:00	23.7	5.9	57	0	94.7	8	19
10/7/2008	14:45:00	23.8	5.9	57	0	94.7	8	20
10/7/2008	15:00:00	23.9	5.9	56	0	94.9	8	21
10/7/2008	15:15:00	23.9	5.9	57	0	94.8	8	22
10/7/2008	15:30:00	23.9	5.9	57	0	94.6	8	23
10/7/2008	15:45:00	23.9	5.9	57	0	93.9	7.9	24
10/7/2008	16:00:00	23.9	5.9	57	0	93.4	7.9	25
10/7/2008	16:15:00	23.9	5.9	56	0	93	7.8	26
10/7/2008	16:30:00	23.9	5.9	57	0	92.1	7.8	27
10/7/2008	16:45:00	23.9	5.9	57	0	91.5	7.7	28
10/7/2008	17:00:00	23.9	5.9	57	0	90.6	7.6	29
10/7/2008	17:15:00	23.9	5.9	56	0	89.8	7.6	30
10/7/2008	17:30:00	23.8	5.9	57	0	89	7.5	31
10/7/2008	17:45:00	23.7	5.9	56	0	88.2	7.5	32
10/7/2008	18:00:00	23.7	5.9	57	0	87.6	7.4	33
10/7/2008	18:15:00	23.7	5.9	57	0	87.3	7.4	34
10/7/2008	18:30:00	23.6	5.9	56	0	85.4	7.2	35
10/7/2008	18:45:00	23.6	5.8	56	0	83.5	7.1	36
10/7/2008	19:00:00	23.5	5.8	56	0	83.8	7.1	37
10/7/2008	19:15:00	23.5	5.9	56	0	84	7.1	38
10/7/2008	19:30:00	23.4	5.8	57	0	83.5	7.1	39
10/7/2008	19:45:00	23.4	5.9	57	0	83.6	7.1	40
10/7/2008	20:00:00	23.3	5.9	56	0	83.8	7.2	41
10/7/2008	20:15:00	23.3	5.9	56	0	83.9	7.2	42
10/7/2008	20:30:00	23.2	5.9	56	0	83.9	7.2	43
10/7/2008	20:45:00	23.1	5.9	56	0	83.5	7.1	44
10/7/2008	21:00:00	23.1	5.9	56	0	83.6	7.2	45
10/7/2008	21:15:00	23	5.9	56	0	83.4	7.2	46
10/7/2008	21:30:00	23	5.9	56	0	83.3	7.2	47
10/7/2008	21:45:00	22.9	5.9	56	0	83.5	7.2	48
10/7/2008	22:00:00	22.8	5.9	56	0	83.5	7.2	49
10/7/2008	22:15:00	22.8	5.9	56	0	83.4	7.2	50
10/7/2008	22:30:00	22.7	5.9	56	0	83.4	7.2	51
10/7/2008	22:45:00	22.6	5.9	56	0	83.4	7.2	52
10/7/2008	23:00:00	22.6	5.9	56	0	83.4	7.2	53
10/7/2008	23:15:00	22.5	5.9	56	0	83.3	7.2	54
10/7/2008	23:30:00	22.5	5.9	56	0	83.2	7.2	55

10/7/2008	23:45:00	22.4	5.9	56	0	83.3	7.2	56
10/8/2008	0:00:00	22.4	5.9	56	0	83.2	7.2	57
10/8/2008	0:15:00	22.3	5.9	56	0	83.3	7.2	58
10/8/2008	0:30:00	22.3	5.9	57	0	83.3	7.3	59
10/8/2008	0:45:00	22.2	5.9	56	0	83.2	7.2	60
10/8/2008	1:00:00	22.2	5.9	56	0	83.1	7.2	61
10/8/2008	1:15:00	22.1	5.9	56	0	83.1	7.3	62
10/8/2008	1:30:00	22.1	5.9	56	0	83	7.3	63
10/8/2008	1:45:00	22.1	5.9	56	0	83	7.3	64
10/8/2008	2:00:00	22	5.9	56	0	83.1	7.3	65
10/8/2008	2:15:00	22	5.9	56	0	83.1	7.3	66
10/8/2008	2:30:00	22	5.9	56	0	83.1	7.3	67
10/8/2008	2:45:00	21.9	5.9	56	0	83.1	7.3	68
10/8/2008	3:00:00	21.9	5.9	56	0	83	7.3	69
10/8/2008	3:15:00	21.9	5.9	56	0	83.1	7.3	70
10/8/2008	3:30:00	21.8	5.9	56	0	83.1	7.3	71
10/8/2008	3:45:00	21.8	5.9	56	0	83.1	7.3	72
10/8/2008	4:00:00	21.7	5.9	56	0	83.1	7.3	73
10/8/2008	4:15:00	21.7	5.9	56	0	83	7.3	74
10/8/2008	4:30:00	21.7	5.9	56	0	83.1	7.3	75
10/8/2008	4:45:00	21.6	5.9	56	0	83.1	7.3	76
10/8/2008	5:00:00	21.6	5.9	56	0	83.1	7.3	77
10/8/2008	5:15:00	21.6	5.9	56	0	83.3	7.3	78
10/8/2008	5:30:00	21.5	5.9	56	0	83.2	7.3	79
10/8/2008	5:45:00	21.5	5.9	56	0	83.1	7.3	80
10/8/2008	6:00:00	21.4	5.9	56	0	83.2	7.4	81
10/8/2008	6:15:00	21.3	5.9	56	0	83.1	7.4	82
10/8/2008	6:30:00	21.3	5.9	56	0	83.2	7.4	83
10/8/2008	6:45:00	21.2	5.9	56	0	83.3	7.4	84
10/8/2008	7:00:00	21.2	5.9	56	0	83.2	7.4	85
10/8/2008	7:15:00	21.1	5.9	56	0	83.2	7.4	86
10/8/2008	7:30:00	21	5.9	56	0	83.2	7.4	87
10/8/2008	7:45:00	21	5.9	56	0	83.3	7.4	88
10/8/2008	8:00:00	20.9	5.9	56	0	83.5	7.5	89
10/8/2008	8:15:00	20.9	5.9	56	0	83.6	7.5	90
10/8/2008	8:30:00	20.9	5.9	56	0	83.7	7.5	91
10/8/2008	8:45:00	20.8	5.9	56	0	84	7.5	92

10/8/2008	9:00:00	20.8	5.9	56	0	84.2	7.5	93
10/8/2008	9:15:00	20.8	5.9	56	0	84.6	7.6	94
10/8/2008	9:30:00	20.8	5.9	56	0	84.9	7.6	95
10/8/2008	9:45:00	20.8	5.9	56	0	85.3	7.6	96
10/8/2008	10:00:00	20.9	5.9	56	0	85.7	7.7	97
10/8/2008	10:15:00	20.9	5.9	56	0	86.3	7.7	98
10/8/2008	10:30:00	21	5.9	56	0	87	7.8	99
10/8/2008	10:45:00	21.1	5.9	56	0	87.7	7.8	100
10/8/2008	11:00:00	21.2	5.9	56	0	88.4	7.9	101
10/8/2008	11:15:00	21.3	5.9	56	0	89.1	7.9	102
10/8/2008	11:30:00	21.5	5.9	56	0	89.8	7.9	103
10/8/2008	11:45:00	21.6	5.9	56	0	90.7	8	104
10/8/2008	12:00:00	21.8	5.9	56	0	91.2	8	105
10/8/2008	12:15:00	22	5.9	56	0	92.2	8.1	106
10/8/2008	12:30:00	22.2	5.9	56	0	92.6	8.1	107
10/8/2008	12:45:00	22.4	5.9	56	0	93.3	8.1	108
10/8/2008	13:00:00	22.6	5.9	56	0	93.9	8.1	109
10/8/2008	13:15:00	22.8	5.9	56	0	94.5	8.1	110
10/8/2008	13:30:00	23	5.9	56	0	94.8	8.1	111
10/8/2008	13:45:00	23.1	5.9	56	0	95.2	8.2	112
10/8/2008	14:00:00	23.2	5.9	56	0	95.5	8.2	113
10/8/2008	14:15:00	23.3	5.9	56	0	95.7	8.2	114
10/8/2008	14:30:00	23.4	5.9	56	0	95.9	8.2	115
10/8/2008	14:45:00	23.5	5.9	56	0	95.9	8.2	116
10/8/2008	15:00:00	23.6	5.9	57	0	95.8	8.1	117
10/8/2008	15:15:00	23.6	5.9	56	0	95.6	8.1	118
10/8/2008	15:30:00	23.7	5.9	56	0	95.4	8.1	119
10/8/2008	15:45:00	23.7	5.9	56	0	95	8.1	120
10/8/2008	16:00:00	23.7	5.9	56	0	94.5	8	121
10/8/2008	16:15:00	23.7	5.9	57	0	94	8	122
10/8/2008	16:30:00	23.7	5.9	56	0	93.4	7.9	123
10/8/2008	16:45:00	23.6	5.9	56	0	92.7	7.9	124
10/8/2008	17:00:00	23.6	5.9	56	0	91.8	7.8	125
10/8/2008	17:15:00	23.6	5.9	56	0	90.9	7.7	126
10/8/2008	17:30:00	23.5	5.9	56	0	90.1	7.7	127
10/8/2008	17:45:00	23.4	5.9	57	0	89.2	7.6	128
10/8/2008	18:00:00	23.4	5.9	57	0	88.4	7.5	129

10/8/2008	18:15:00	23.3	5.9	56	0	87.9	7.5	130
10/8/2008	18:30:00	23.2	5.9	56	0	86.9	7.4	131
10/8/2008	18:45:00	23.1	5.9	56	0	86.3	7.4	132
10/8/2008	19:00:00	23	5.9	56	0	86	7.4	133
10/8/2008	19:15:00	22.9	5.9	56	0	85.5	7.4	134
10/8/2008	19:30:00	22.8	5.9	56	0	85.2	7.3	135
10/8/2008	19:45:00	22.7	5.9	56	0	84.9	7.3	136
10/8/2008	20:00:00	22.6	5.9	56	0	84.6	7.3	137
10/8/2008	20:15:00	22.5	5.9	56	0	84.6	7.3	138
10/8/2008	20:30:00	22.4	5.9	56	0	84.2	7.3	139
10/8/2008	20:45:00	22.3	5.9	56	0	84.2	7.3	140
10/8/2008	21:00:00	22.2	5.9	56	0	84	7.3	141
10/8/2008	21:15:00	22.1	5.9	56	0	83.9	7.3	142
10/8/2008	21:30:00	22	5.9	56	0	83.7	7.3	143
10/8/2008	21:45:00	21.8	5.9	56	0	83.7	7.3	144
10/8/2008	22:00:00	21.7	5.9	56	0	83.6	7.4	145
10/8/2008	22:15:00	21.6	5.9	56	0	83.4	7.4	146
10/8/2008	22:30:00	21.5	5.9	56	0	83.6	7.4	147
10/8/2008	22:45:00	21.3	5.9	56	0	83.6	7.4	148
10/8/2008	23:00:00	21.2	5.9	56	0	83.5	7.4	149
10/8/2008	23:15:00	21.1	5.9	56	0	83.4	7.4	150
10/8/2008	23:30:00	21	5.9	56	0	83.5	7.5	151
10/8/2008	23:45:00	20.8	5.9	56	0	83.4	7.5	152
10/9/2008	0:00:00	20.7	5.9	56	0	83.4	7.5	153
10/9/2008	0:15:00	20.6	5.9	56	0	83.2	7.5	154
10/9/2008	0:30:00	20.5	5.9	56	0	83.4	7.5	155
10/9/2008	0:45:00	20.4	5.9	56	0	83.3	7.5	156
10/9/2008	1:00:00	20.3	5.9	56	0	83.4	7.5	157
10/9/2008	1:15:00	20.2	5.9	56	0	83.3	7.6	158
10/9/2008	1:30:00	20.1	5.9	56	0	83.4	7.6	159
10/9/2008	1:45:00	20	5.9	56	0	83.3	7.6	160
10/9/2008	2:00:00	19.9	5.9	56	0	83.3	7.6	161
10/9/2008	2:15:00	19.8	5.9	56	0	83.2	7.6	162
10/9/2008	2:30:00	19.7	5.9	56	0	83.1	7.6	163
10/9/2008	2:45:00	19.6	5.9	56	0	83.2	7.6	164
10/9/2008	3:00:00	19.5	5.9	56	0	83.3	7.7	165
10/9/2008	3:15:00	19.4	5.9	56	0	83.4	7.7	166

10/9/2008	3:30:00	19.3	5.9	56	0	83.6	7.7	167
10/9/2008	3:45:00	19.3	5.9	56	0	83.4	7.7	168
10/9/2008	4:00:00	19.2	5.9	56	0	83.4	7.7	169
10/9/2008	4:15:00	19.2	5.9	56	0	83.5	7.7	170
10/9/2008	4:30:00	19.1	5.9	56	0	83.6	7.7	171
10/9/2008	4:45:00	19.1	5.9	56	0	83.5	7.7	172
10/9/2008	5:00:00	19	5.9	56	0	83.6	7.8	173
10/9/2008	5:15:00	19	5.9	56	0	83.5	7.8	174
10/9/2008	5:30:00	18.9	5.9	56	0	83.5	7.8	175
10/9/2008	5:45:00	18.9	5.9	56	0	83.6	7.8	176
10/9/2008	6:00:00	18.8	5.9	56	0	83.6	7.8	177
10/9/2008	6:15:00	18.8	5.9	56	0	83.7	7.8	178
10/9/2008	6:30:00	18.7	5.9	56	0	83.7	7.8	179
10/9/2008	6:45:00	18.7	6	56	0	83.7	7.8	180
10/9/2008	7:00:00	18.6	6	56	0	83.7	7.8	181
10/9/2008	7:15:00	18.6	6	56	0	83.6	7.8	182
10/9/2008	7:30:00	18.5	6	56	0	83.6	7.8	183
10/9/2008	7:45:00	18.5	6	56	0	83.8	7.9	184
10/9/2008	8:00:00	18.5	6	56	0	84	7.9	185
10/9/2008	8:15:00	18.4	6	56	0	84.1	7.9	186
10/9/2008	8:30:00	18.5	6	56	0	84.3	7.9	187
10/9/2008	8:45:00	18.5	6	56	0	84.5	7.9	188
10/9/2008	9:00:00	18.5	6	56	0	84.9	8	189
10/9/2008	9:15:00	18.6	6	56	0	85.3	8	190

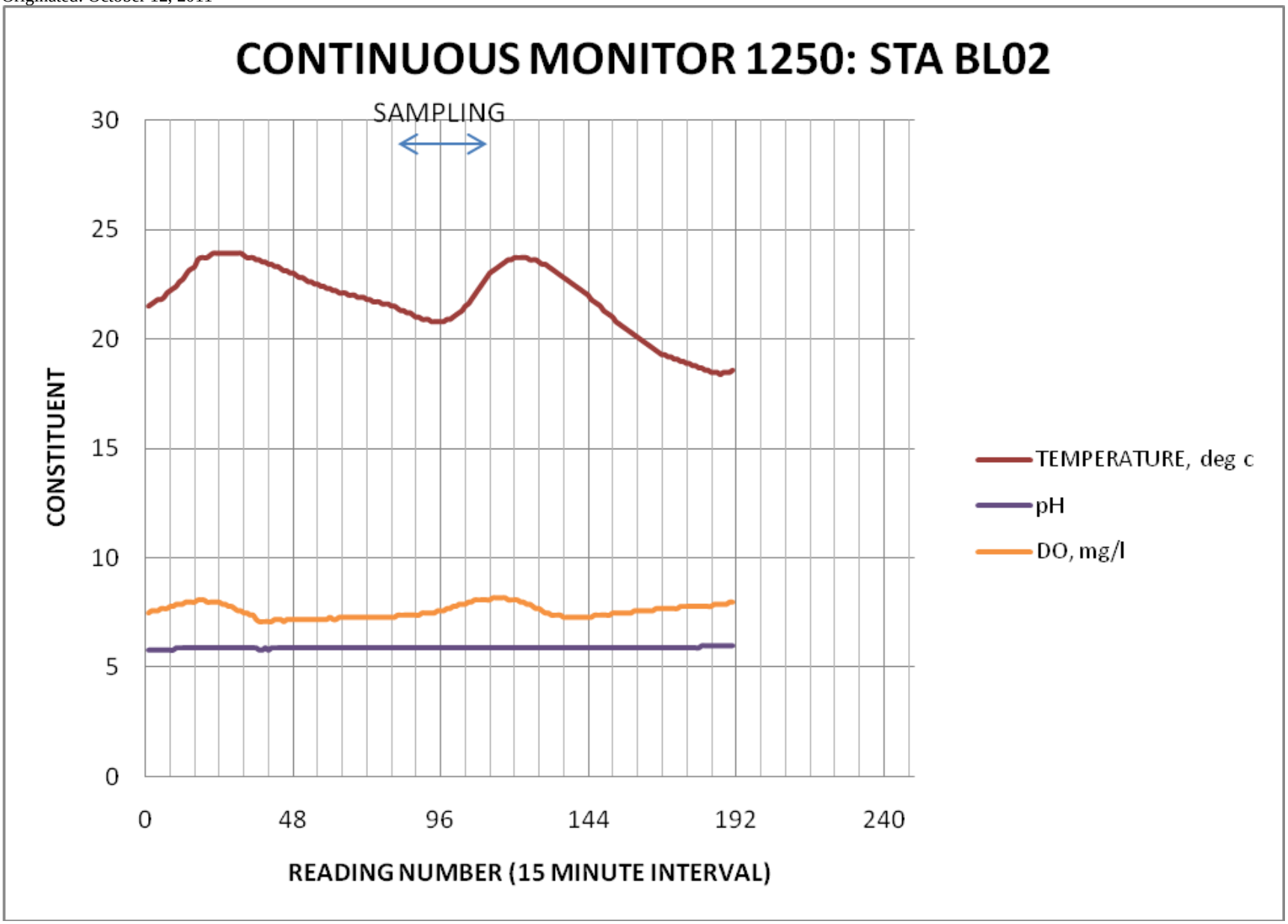
	Temp °C	pH Units	SpCond µS/cm	Sal ppt	LDO% Sat	LDO mg/l
OVERALL AVG	21.83	5.90	56.17	0.00	86.54	7.60
OVERALL MIN	18.40	5.80	56.00	0.00	83.00	7.10
OVERALL MAX	23.90	6.00	57.00	0.00	95.90	8.20
24 HOUR AVG	22.41	5.90	56.24	0.00	86.28	7.49
24 HOUR MIN	20.80	5.80	56.00	0.00	83.00	7.10

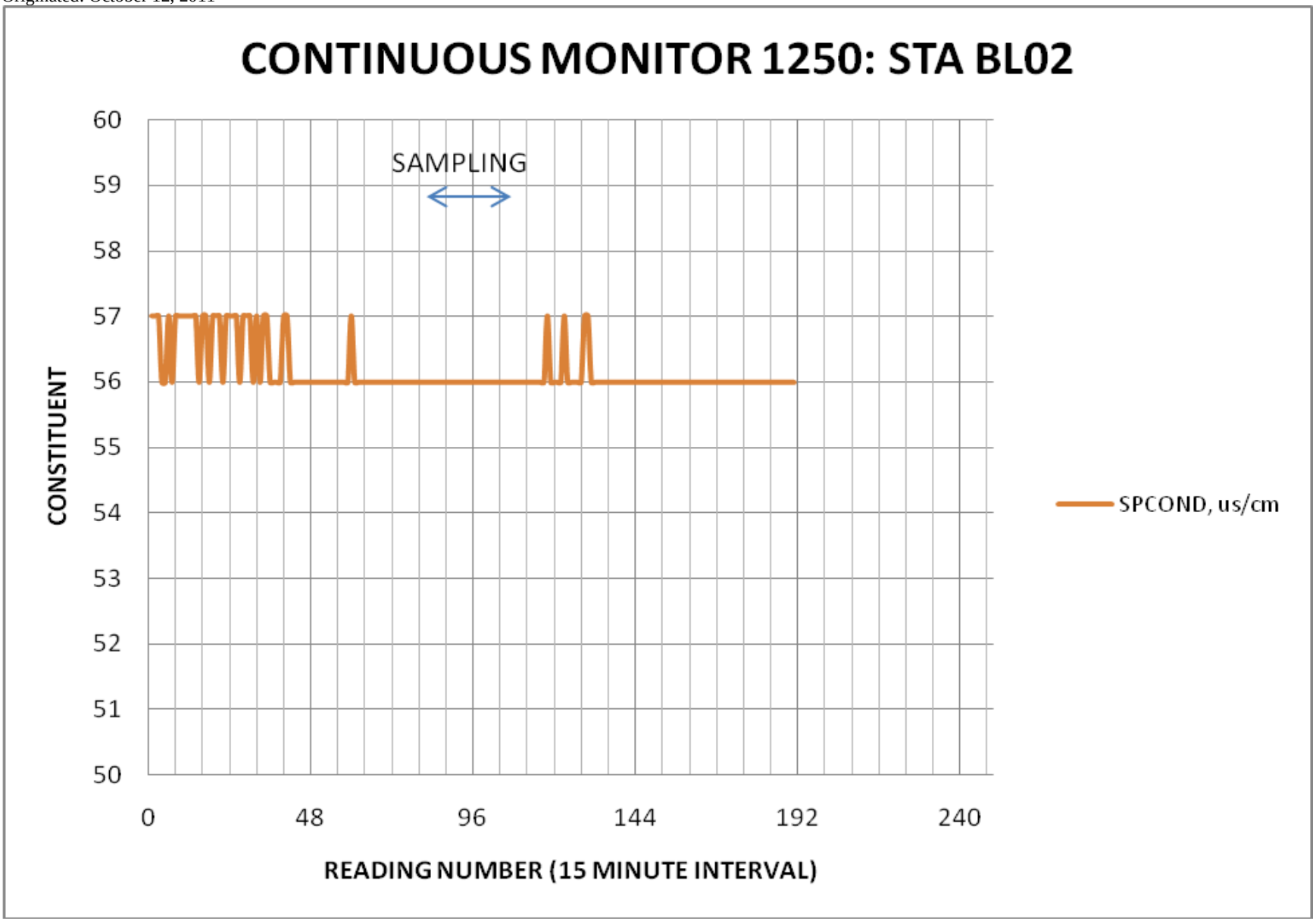
24 HOUR MAX	23.90	5.90	57.00	0.00	95.60	8.10

24 HOURS WAS FROM NOON ON 10/07/2009 TO 11:45 ON 10/08/2009

SAMPLING PERIOD AVG	21.28	5.90	56.00	0.00	87.50	7.76
SAMPLING PERIOD MIN	20.80	5.90	56.00	0.00	83.30	7.40
SAMPLING PERIOD MAX	22.60	5.90	56.00	0.00	93.90	8.10

SURVEY SAMPLING PERIOD WAS FROM 7:45 AM TO 1:15 PM ON 10/08/2008


CONTINUOUS MONITOR 1250: STA BL02
SAMPLING
30
25
20
15
10
5
0
CONSTITUENT
0
48
96
144
192
240
READING NUMBER (15 MINUTE INTERVAL)
TEMPERATURE, deg c
pH
DO, mg/l


CONTINUOUS MONITOR 1250: STA BL02
SAMPLING
CONSTITUENT
60
59
58
57
56
55
54
53
52
51
50
0
48
96
144
192
240
READING NUMBER (15 MINUTE INTERVAL)
SPCOND, us/cm

CONTINUOUS MONITOR 2270: STA BL01

MiniSonde 5 42511
Log File Name : 2270
Setup Date (M/D/YYYY) : 10/6/2008
Setup Time (HH:MM:SS) : 10:36:51
Starting Date (M/D/YYYY) : 10/7/2008
Starting Time (HH:MM:SS) : 07:30:00
Stopping Date (M/D/YYYY) : 10/9/2008
Stopping Time (HH:MM:SS) : 23:59:59
Interval (HH:MM:SS) : 00:15:00
Sensor warmup (HH:MM:SS) : 00:00:30
Circltr warmup (HH:MM:SS) : 00:00:30

Date M/D/YYYY	Time HH:MM:SS	Temp °C	pH Units	SpCond µS/cm	Sal ppt	LDO% Sat	LDO mg/l	READING NUMBER
10/7/2008	10:15:00	20.97	5.54	52	0.01	57.4	5.12	0
10/7/2008	10:30:00	20.99	5.56	52	0.01	57.2	5.1	1
10/7/2008	10:45:00	21.04	5.57	52	0.01	57.3	5.11	2
10/7/2008	11:00:00	21.21	5.57	52	0.01	57.9	5.14	3
10/7/2008	11:15:00	21.19	5.57	52	0.01	57.8	5.14	4
10/7/2008	11:30:00	21.24	5.58	52	0.01	57.8	5.13	5
10/7/2008	11:45:00	21.35	5.58	52	0.01	58.2	5.15	6
10/7/2008	12:00:00	21.41	5.57	52	0.01	58.3	5.16	7
10/7/2008	12:15:00	21.46	5.58	52	0.01	58.3	5.15	8
10/7/2008	12:30:00	21.68	5.58	52	0.01	58.9	5.18	9
10/7/2008	12:45:00	21.71	5.58	52	0.01	58.6	5.15	10
10/7/2008	13:00:00	21.84	5.58	52	0.01	59	5.18	11
10/7/2008	13:15:00	21.9	5.59	52	0.01	59.3	5.19	12
10/7/2008	13:30:00	21.78	5.59	52	0.01	59	5.18	13
10/7/2008	13:45:00	21.85	5.59	52	0.01	59	5.17	14
10/7/2008	14:00:00	21.98	5.59	52	0.01	59.3	5.19	15
10/7/2008	14:15:00	21.89	5.59	52	0.01	59.1	5.17	16
10/7/2008	14:30:00	21.8	5.59	52	0.01	58.5	5.13	17
10/7/2008	14:45:00	21.85	5.59	52	0.01	58.4	5.12	18

10/7/2008	15:00:00	21.97	5.59	52	0.01	58.8	5.15	19
10/7/2008	15:15:00	22	5.59	52	0.01	59	5.16	20
10/7/2008	15:30:00	21.96	5.59	52	0.01	58.6	5.13	21
10/7/2008	15:45:00	21.88	5.59	52	0.01	57.7	5.06	22
10/7/2008	16:00:00	21.85	5.58	52	0.01	57.3	5.03	23
10/7/2008	16:15:00	21.8	5.58	52	0.01	57.1	5.01	24
10/7/2008	16:30:00	21.77	5.59	52	0.01	56.9	5	25
10/7/2008	16:45:00	21.75	5.59	52	0.01	56.6	4.97	26
10/7/2008	17:00:00	21.75	5.59	52	0.01	56.7	4.98	27
10/7/2008	17:15:00	21.73	5.59	52	0.01	57	5.01	28
10/7/2008	17:30:00	21.69	5.6	52	0.01	58.1	5.11	29
10/7/2008	17:45:00	21.67	5.6	52	0.01	56.6	4.98	30
10/7/2008	18:00:00	21.66	5.59	52	0.01	56.2	4.95	31
10/7/2008	18:15:00	21.66	5.59	52	0.01	56	4.93	32
10/7/2008	18:30:00	21.64	5.6	52	0.01	55.7	4.9	33
10/7/2008	18:45:00	21.63	5.6	52	0.01	55.4	4.88	34
10/7/2008	19:00:00	21.6	5.59	52	0.01	55.2	4.86	35
10/7/2008	19:15:00	21.6	5.59	52	0.01	55	4.85	36
10/7/2008	19:30:00	21.58	5.59	52	0.01	55.1	4.86	37
10/7/2008	19:45:00	21.56	5.59	52	0.01	55	4.85	38
10/7/2008	20:00:00	21.55	5.59	52	0.01	54.9	4.85	39
10/7/2008	20:15:00	21.53	5.59	52	0.01	55	4.85	40
10/7/2008	20:30:00	21.52	5.59	52	0.01	55.3	4.88	41
10/7/2008	20:45:00	21.51	5.59	52	0.01	55.3	4.88	42
10/7/2008	21:00:00	21.5	5.59	52	0.01	55.4	4.89	43
10/7/2008	21:15:00	21.48	5.59	52	0.01	55.4	4.89	44
10/7/2008	21:30:00	21.46	5.6	52	0.01	55.4	4.9	45
10/7/2008	21:45:00	21.43	5.59	52	0.01	55.2	4.88	46
10/7/2008	22:00:00	21.4	5.59	52	0.01	55.4	4.9	47
10/7/2008	22:15:00	21.38	5.59	52	0.01	55.6	4.92	48
10/7/2008	22:30:00	21.36	5.59	52	0.01	55.5	4.91	49
10/7/2008	22:45:00	21.34	5.59	52	0.01	55.5	4.91	50
10/7/2008	23:00:00	21.32	5.59	52	0.01	55.4	4.91	51
10/7/2008	23:15:00	21.29	5.59	52	0.01	55.4	4.91	52
10/7/2008	23:30:00	21.26	5.59	52	0.01	55.3	4.9	53
10/7/2008	23:45:00	21.25	5.59	52	0.01	55.4	4.92	54
10/8/2008	0:00:00	21.24	5.59	52	0.01	55.6	4.93	55

10/8/2008	0:15:00	21.22	5.58	52	0.01	55.4	4.92	56
10/8/2008	0:30:00	21.2	5.58	52	0.01	55.4	4.92	57
10/8/2008	0:45:00	21.19	5.58	52	0.01	55.4	4.92	58
10/8/2008	1:00:00	21.18	5.58	51	0.01	55.4	4.92	59
10/8/2008	1:15:00	21.17	5.59	52	0.01	55.5	4.94	60
10/8/2008	1:30:00	21.16	5.58	52	0.01	55.6	4.94	61
10/8/2008	1:45:00	21.14	5.58	52	0.01	55.6	4.94	62
10/8/2008	2:00:00	21.13	5.58	52	0.01	55.5	4.93	63
10/8/2008	2:15:00	21.12	5.58	52	0.01	55.4	4.92	64
10/8/2008	2:30:00	21.12	5.59	52	0.01	55.5	4.93	65
10/8/2008	2:45:00	21.09	5.58	52	0.01	55.4	4.93	66
10/8/2008	3:00:00	21.08	5.58	51	0.01	55.5	4.94	67
10/8/2008	3:15:00	21.06	5.58	52	0.01	55.6	4.95	68
10/8/2008	3:30:00	21.05	5.59	52	0.01	55.4	4.94	69
10/8/2008	3:45:00	21.04	5.58	51	0.01	55.6	4.95	70
10/8/2008	4:00:00	21.03	5.59	51	0.01	55.5	4.94	71
10/8/2008	4:15:00	21.01	5.59	52	0.01	55.5	4.94	72
10/8/2008	4:30:00	21	5.58	51	0.01	55.4	4.94	73
10/8/2008	4:45:00	20.99	5.59	52	0.01	55.2	4.92	74
10/8/2008	5:00:00	20.99	5.59	52	0.01	55.4	4.94	75
10/8/2008	5:15:00	20.99	5.58	51	0.01	55.3	4.93	76
10/8/2008	5:30:00	20.98	5.59	52	0.01	55.5	4.95	77
10/8/2008	5:45:00	20.94	5.58	51	0.01	55.5	4.96	78
10/8/2008	6:00:00	20.89	5.6	52	0.01	55.7	4.97	79
10/8/2008	6:15:00	20.85	5.61	51	0.01	55.6	4.97	80
10/8/2008	6:30:00	20.8	5.61	52	0.01	55.8	4.99	81
10/8/2008	6:45:00	20.76	5.61	51	0.01	55.9	5.01	82
10/8/2008	7:00:00	20.72	5.62	52	0.01	55.8	5	83
10/8/2008	7:15:00	20.69	5.61	52	0.01	56	5.02	84
10/8/2008	7:30:00	20.66	5.62	51	0.01	55.9	5.02	85
10/8/2008	7:45:00	20.63	5.62	51	0.01	56.2	5.05	86
10/8/2008	8:00:00	20.6	5.62	52	0.01	56.4	5.07	87
10/8/2008	8:15:00	20.59	5.62	52	0.01	56.4	5.07	88
10/8/2008	8:30:00	20.57	5.62	51	0.01	56.5	5.08	89
10/8/2008	8:45:00	20.55	5.62	51	0.01	56.8	5.11	90
10/8/2008	9:00:00	20.53	5.63	52	0.01	56.8	5.11	91
10/8/2008	9:15:00	20.53	5.63	52	0.01	57	5.12	92

10/8/2008	9:30:00	20.55	5.63	52	0.01	57.3	5.15	93
10/8/2008	9:45:00	20.59	5.63	52	0.01	57.5	5.17	94
10/8/2008	10:00:00	20.63	5.64	52	0.01	57.9	5.2	95
10/8/2008	10:15:00	20.67	5.64	52	0.01	58.1	5.21	96
10/8/2008	10:30:00	20.75	5.64	52	0.01	58.6	5.25	97
10/8/2008	10:45:00	20.83	5.64	52	0.01	58.8	5.26	98
10/8/2008	11:00:00	20.9	5.65	51	0.01	59.1	5.28	99
10/8/2008	11:15:00	20.97	5.65	52	0.01	59.4	5.29	100
10/8/2008	11:30:00	21.04	5.65	52	0.01	59.6	5.31	101
10/8/2008	11:45:00	21.1	5.65	51	0.01	59.9	5.33	102
10/8/2008	12:00:00	21.16	5.65	51	0.01	60.1	5.34	103
10/8/2008	12:15:00	21.2	5.68	52	0.01	60.3	5.35	104
10/8/2008	12:30:00	21.25	5.65	51	0.01	60.4	5.35	105
10/8/2008	12:45:00	21.29	5.65	52	0.01	60.4	5.35	106
10/8/2008	13:00:00	21.34	5.65	51	0.01	60.6	5.37	107
10/8/2008	13:15:00	21.39	5.65	51	0.01	60.5	5.36	108
10/8/2008	13:30:00	21.45	5.65	52	0.01	60.4	5.34	109
10/8/2008	13:45:00	21.51	5.65	52	0.01	60.5	5.34	110
10/8/2008	14:00:00	21.57	5.65	52	0.01	60.7	5.35	111
10/8/2008	14:15:00	21.61	5.64	52	0.01	60.7	5.34	112
10/8/2008	14:30:00	21.62	5.65	52	0.01	60.5	5.33	113
10/8/2008	14:45:00	21.6	5.64	52	0.01	59.9	5.28	114
10/8/2008	15:00:00	21.6	5.65	52	0.01	59.8	5.27	115
10/8/2008	15:15:00	21.62	5.65	52	0.01	60	5.28	116
10/8/2008	15:30:00	21.63	5.65	52	0.01	59.8	5.26	117
10/8/2008	15:45:00	21.6	5.65	52	0.01	59.6	5.25	118
10/8/2008	16:00:00	21.56	5.65	51	0.01	59.4	5.24	119
10/8/2008	16:15:00	21.51	5.65	52	0.01	59.1	5.22	120
10/8/2008	16:30:00	21.47	5.65	52	0.01	58.7	5.19	121
10/8/2008	16:45:00	21.42	5.65	51	0.01	58.7	5.19	122
10/8/2008	17:00:00	21.36	5.65	52	0.01	58.5	5.18	123
10/8/2008	17:15:00	21.32	5.66	52	0.01	58.4	5.17	124
10/8/2008	17:30:00	21.29	5.66	52	0.01	58.4	5.18	125
10/8/2008	17:45:00	21.26	5.66	52	0.01	57.9	5.14	126
10/8/2008	18:00:00	21.24	5.65	52	0.01	57.8	5.13	127
10/8/2008	18:15:00	21.22	5.65	52	0.01	57.7	5.12	128
10/8/2008	18:30:00	21.2	5.65	52	0.01	57.6	5.12	129

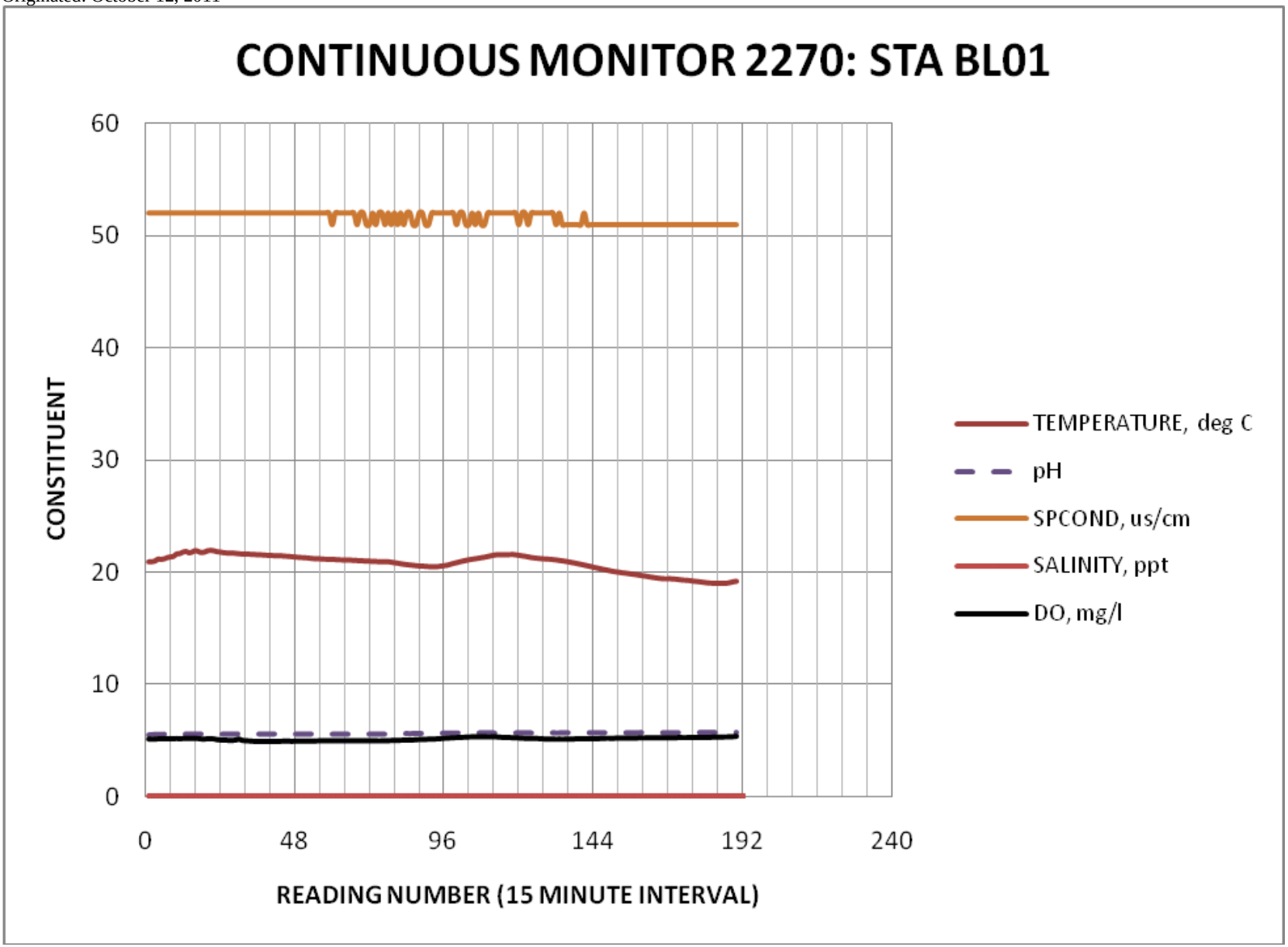
10/8/2008	18:45:00	21.17	5.66	52	0.01	57.5	5.11	130
10/8/2008	19:00:00	21.14	5.65	51	0.01	57.4	5.1	131
10/8/2008	19:15:00	21.1	5.65	52	0.01	57.4	5.11	132
10/8/2008	19:30:00	21.06	5.66	51	0.01	57.3	5.1	133
10/8/2008	19:45:00	21.02	5.66	51	0.01	57.3	5.11	134
10/8/2008	20:00:00	20.97	5.66	51	0.01	57.3	5.11	135
10/8/2008	20:15:00	20.91	5.66	51	0.01	57.3	5.12	136
10/8/2008	20:30:00	20.86	5.66	51	0.01	57.4	5.13	137
10/8/2008	20:45:00	20.8	5.66	51	0.01	57.3	5.13	138
10/8/2008	21:00:00	20.74	5.66	51	0.01	57.3	5.14	139
10/8/2008	21:15:00	20.68	5.66	52	0.01	57.3	5.14	140
10/8/2008	21:30:00	20.62	5.66	51	0.01	57.3	5.14	141
10/8/2008	21:45:00	20.56	5.66	51	0.01	57.3	5.15	142
10/8/2008	22:00:00	20.49	5.66	51	0.01	57.3	5.16	143
10/8/2008	22:15:00	20.43	5.66	51	0.01	57.2	5.16	144
10/8/2008	22:30:00	20.36	5.66	51	0.01	57.3	5.17	145
10/8/2008	22:45:00	20.3	5.66	51	0.01	57.3	5.18	146
10/8/2008	23:00:00	20.25	5.66	51	0.01	57.4	5.2	147
10/8/2008	23:15:00	20.19	5.66	51	0.01	57.4	5.2	148
10/8/2008	23:30:00	20.13	5.66	51	0.01	57.1	5.18	149
10/8/2008	23:45:00	20.09	5.66	51	0.01	57.4	5.21	150
10/9/2008	0:00:00	20.05	5.66	51	0.01	57.3	5.2	151
10/9/2008	0:15:00	20	5.66	51	0.01	57.4	5.21	152
10/9/2008	0:30:00	19.97	5.66	51	0.01	57.2	5.2	153
10/9/2008	0:45:00	19.93	5.66	51	0.01	57.3	5.22	154
10/9/2008	1:00:00	19.89	5.66	51	0.01	57.4	5.23	155
10/9/2008	1:15:00	19.85	5.66	51	0.01	57.4	5.23	156
10/9/2008	1:30:00	19.81	5.66	51	0.01	57.3	5.23	157
10/9/2008	1:45:00	19.76	5.67	51	0.01	57.5	5.26	158
10/9/2008	2:00:00	19.72	5.66	51	0.01	57.3	5.24	159
10/9/2008	2:15:00	19.68	5.66	51	0.01	57.4	5.25	160
10/9/2008	2:30:00	19.63	5.66	51	0.01	57.4	5.26	161
10/9/2008	2:45:00	19.58	5.66	51	0.01	57.3	5.25	162
10/9/2008	3:00:00	19.54	5.66	51	0.01	57.1	5.24	163
10/9/2008	3:15:00	19.5	5.66	51	0.01	57.4	5.27	164
10/9/2008	3:30:00	19.47	5.66	51	0.01	57.3	5.26	165
10/9/2008	3:45:00	19.45	5.66	51	0.01	57.3	5.27	166

10/9/2008	4:00:00	19.45	5.66	51	0.01	57.3	5.26	167
10/9/2008	4:15:00	19.45	5.66	51	0.01	57.2	5.26	168
10/9/2008	4:30:00	19.43	5.66	51	0.01	57.2	5.26	169
10/9/2008	4:45:00	19.4	5.66	51	0.01	57.3	5.27	170
10/9/2008	5:00:00	19.37	5.67	51	0.01	57.5	5.29	171
10/9/2008	5:15:00	19.34	5.67	51	0.01	57.3	5.27	172
10/9/2008	5:30:00	19.32	5.67	51	0.01	57.2	5.27	173
10/9/2008	5:45:00	19.29	5.67	51	0.01	57.3	5.28	174
10/9/2008	6:00:00	19.25	5.67	51	0.01	57.2	5.28	175
10/9/2008	6:15:00	19.22	5.67	51	0.01	57.2	5.28	176
10/9/2008	6:30:00	19.19	5.67	51	0.01	57.2	5.29	177
10/9/2008	6:45:00	19.15	5.67	51	0.01	57.1	5.28	178
10/9/2008	7:00:00	19.11	5.67	51	0.01	57.3	5.3	179
10/9/2008	7:15:00	19.08	5.67	51	0.01	57.2	5.3	180
10/9/2008	7:30:00	19.06	5.67	51	0.01	57.3	5.31	181
10/9/2008	7:45:00	19.04	5.68	51	0.01	57.3	5.31	182
10/9/2008	8:00:00	19.03	5.67	51	0.01	57.3	5.31	183
10/9/2008	8:15:00	19.03	5.67	51	0.01	57.5	5.33	184
10/9/2008	8:30:00	19.04	5.66	51	0.01	57.6	5.34	185
10/9/2008	8:45:00	19.06	5.66	51	0.01	57.7	5.34	186
10/9/2008	9:00:00	19.12	5.67	51	0.01	58	5.37	187
10/9/2008	9:15:00	19.19	5.68	51	0.01	58.2	5.38	188
10/9/2008	9:30:00	19.23	5.68	51	0.01	58.6	5.41	189

	Temp °C	pH Units	SpCond µS/cm	Sal ppt	LDO% Sat	LDO mg/l
24 HOUR AVG	21.27083	5.5975	51.84375	0.01	56.55417	5.014792
24 HOUR MIN	20.53	5.57	51	0.01	54.9	4.85
24 HOUR MAX	22.00	5.65	52.00	0.01	59.90	5.33
		24 HOURS WAS FROM NOON TO NOON OVER 1 DAY				
OVERALL AVG	20.84121	5.624789	51.58947	0.01	57.27	5.122158
OVERALL MIN	19.03	5.54	51	0.01	54.9	4.85
OVERALL MAX	22	5.68	52	0.01	60.7	5.41
SAMPLING PERIOD	20.85478	5.639565	51.6087	0.01	58.46087	5.225217

AVG SAMPLING PERIOD MIN	20.53	5.62	51	0.01	56.2	5.05
AVG SAMPLING PERIOD MAX	21.39	5.68	52	0.01	60.6	5.37

SURVEY SAMPLING PERIOD WAS FROM 7:45 AM TO 1:15 PM ON 10/08/2008


CONTINUOUS MONITOR 2270: STA BL01
60
50
40
30
20
10
0
CONSTITUENT
0
48
96
144
192
240
READING NUMBER (15 MINUTE INTERVAL)
TEMPERATURE, deg C
pH
SPCOND, us/cm
SALINITY, ppt
DO, mg/l

CONTINUOUS MONITOR 3690: STA BL03

MiniSonde 5 42508
Log File Name : 3690
Setup Date (M/D/YYYY) : 10/6/2008
Setup Time (HH:MM:SS) : 10:31:42
Starting Date (M/D/YYYY) : 10/7/2008
Starting Time (HH:MM:SS) : 07:30:00
Stopping Date (M/D/YYYY) : 10/9/2008
Stopping Time (HH:MM:SS) : 23:59:59
Interval (HH:MM:SS) : 00:15:00
Sensor warmup (HH:MM:SS) : 00:00:30
Circltr warmup (HH:MM:SS) : 00:00:30

Date M/D/YYYY	Time HH:MM:SS	Temp °C	pH Units	SpCond µS/cm	Sal ppt	LDO% Sat	LDO mg/l	READING NUMBER
10/7/2008	9:00:00	22.5	6.6	60	0	92.7	8	0
10/7/2008	9:15:00	22.5	6.6	60	0	92.8	8	1
10/7/2008	9:30:00	22.5	6.5	60	0	93	8.1	2
10/7/2008	9:45:00	22.5	6.5	60	0	93.3	8.1	3
10/7/2008	10:00:00	22.5	6.5	60	0	93.6	8.1	4
10/7/2008	10:15:00	22.6	6.5	60	0	94.1	8.1	5
10/7/2008	10:30:00	22.6	6.5	60	0	94.6	8.2	6
10/7/2008	10:45:00	22.6	6.5	60	0	95	8.2	7
10/7/2008	11:00:00	22.7	6.5	60	0	95.5	8.2	8
10/7/2008	11:15:00	22.8	6.5	60	0	96.2	8.3	9
10/7/2008	11:30:00	22.8	6.6	60	0	96.6	8.3	10
10/7/2008	11:45:00	22.9	6.6	60	0	97.3	8.4	11
10/7/2008	12:00:00	23	6.6	60	0	97.6	8.4	12
10/7/2008	12:15:00	23.2	6.6	60	0	98.3	8.4	13
10/7/2008	12:30:00	23.3	6.6	60	0	99	8.4	14
10/7/2008	12:45:00	23.4	6.6	60	0	99.8	8.5	15
10/7/2008	13:00:00	23.6	6.6	60	0	100.3	8.5	16
10/7/2008	13:15:00	23.8	6.6	60	0	101	8.5	17
10/7/2008	13:30:00	23.9	6.6	60	0	101.7	8.6	18

10/7/2008	13:45:00	24	6.6	60	0	102	8.6	19
10/7/2008	14:00:00	24	6.6	60	0	102.3	8.6	20
10/7/2008	14:15:00	24.1	6.6	60	0	102.5	8.6	21
10/7/2008	14:30:00	24.1	6.6	59	0	102.5	8.6	22
10/7/2008	14:45:00	24.2	6.6	60	0	103	8.6	23
10/7/2008	15:00:00	24.3	6.6	60	0	103.1	8.6	24
10/7/2008	15:15:00	24.3	6.6	60	0	103.4	8.7	25
10/7/2008	15:30:00	24.4	6.6	60	0	103.6	8.7	26
10/7/2008	15:45:00	24.4	6.6	59	0	103.4	8.6	27
10/7/2008	16:00:00	24.5	6.6	60	0	103.6	8.6	28
10/7/2008	16:15:00	24.5	6.6	60	0	103.5	8.6	29
10/7/2008	16:30:00	24.5	6.6	60	0	103.1	8.6	30
10/7/2008	16:45:00	24.5	6.7	59	0	102.9	8.6	31
10/7/2008	17:00:00	24.5	6.6	59	0	102.6	8.6	32
10/7/2008	17:15:00	24.5	6.7	60	0	102	8.5	33
10/7/2008	17:30:00	24.5	6.7	59	0	101.3	8.5	34
10/7/2008	17:45:00	24.4	6.7	59	0	100.8	8.4	35
10/7/2008	18:00:00	24.4	6.6	59	0	100.2	8.4	36
10/7/2008	18:15:00	24.3	6.6	59	0	99.8	8.4	37
10/7/2008	18:30:00	24.3	6.6	59	0	99.5	8.3	38
10/7/2008	18:45:00	24.2	6.6	59	0	98.8	8.3	39
10/7/2008	19:00:00	24.2	6.6	59	0	98.1	8.2	40
10/7/2008	19:15:00	24.1	6.6	59	0	97.5	8.2	41
10/7/2008	19:30:00	24.1	6.6	59	0	97.2	8.2	42
10/7/2008	19:45:00	24	6.6	59	0	96.5	8.1	43
10/7/2008	20:00:00	24	6.6	59	0	95.9	8.1	44
10/7/2008	20:15:00	23.9	6.6	59	0	95.5	8.1	45
10/7/2008	20:30:00	23.9	6.6	59	0	95.1	8	46
10/7/2008	20:45:00	23.8	6.6	59	0	94.6	8	47
10/7/2008	21:00:00	23.8	6.6	59	0	94.3	8	48
10/7/2008	21:15:00	23.8	6.6	59	0	93.9	7.9	49
10/7/2008	21:30:00	23.7	6.6	59	0	93.8	7.9	50
10/7/2008	21:45:00	23.7	6.6	59	0	93.4	7.9	51
10/7/2008	22:00:00	23.6	6.6	59	0	93.1	7.9	52
10/7/2008	22:15:00	23.6	6.6	59	0	93.1	7.9	53
10/7/2008	22:30:00	23.5	6.5	59	0	92.6	7.9	54
10/7/2008	22:45:00	23.5	6.5	59	0	92.6	7.9	55

10/7/2008	23:00:00	23.5	6.5	59	0	92.3	7.9	56
10/7/2008	23:15:00	23.4	6.5	59	0	92.3	7.9	57
10/7/2008	23:30:00	23.4	6.5	59	0	92	7.8	58
10/7/2008	23:45:00	23.3	6.5	59	0	91.9	7.8	59
10/8/2008	0:00:00	23.3	6.5	59	0	91.9	7.8	60
10/8/2008	0:15:00	23.2	6.5	59	0	91.8	7.8	61
10/8/2008	0:30:00	23.2	6.5	59	0	91.6	7.8	62
10/8/2008	0:45:00	23.2	6.5	59	0	91.4	7.8	63
10/8/2008	1:00:00	23.1	6.5	59	0	91.7	7.8	64
10/8/2008	1:15:00	23.1	6.5	59	0	91.5	7.8	65
10/8/2008	1:30:00	23.1	6.5	59	0	91.4	7.8	66
10/8/2008	1:45:00	23.1	6.5	59	0	91.1	7.8	67
10/8/2008	2:00:00	23	6.5	59	0	91.3	7.8	68
10/8/2008	2:15:00	23	6.5	59	0	91.4	7.8	69
10/8/2008	2:30:00	23	6.5	59	0	91.2	7.8	70
10/8/2008	2:45:00	23	6.5	59	0	91.4	7.9	71
10/8/2008	3:00:00	22.9	6.5	59	0	91.4	7.9	72
10/8/2008	3:15:00	22.9	6.5	59	0	91.3	7.8	73
10/8/2008	3:30:00	22.9	6.5	59	0	91.1	7.8	74
10/8/2008	3:45:00	22.9	6.5	59	0	91.1	7.8	75
10/8/2008	4:00:00	22.9	6.5	59	0	91.2	7.9	76
10/8/2008	4:15:00	22.8	6.5	59	0	90.9	7.8	77
10/8/2008	4:30:00	22.8	6.5	59	0	91.1	7.8	78
10/8/2008	4:45:00	22.8	6.5	59	0	91.3	7.9	79
10/8/2008	5:00:00	22.8	6.5	59	0	91.2	7.9	80
10/8/2008	5:15:00	22.8	6.5	59	0	91.1	7.9	81
10/8/2008	5:30:00	22.7	6.5	58	0	91.1	7.9	82
10/8/2008	5:45:00	22.7	6.5	58	0	91.3	7.9	83
10/8/2008	6:00:00	22.6	6.5	58	0	91.2	7.9	84
10/8/2008	6:15:00	22.6	6.5	58	0	91.2	7.9	85
10/8/2008	6:30:00	22.5	6.5	58	0	91.2	7.9	86
10/8/2008	6:45:00	22.4	6.5	58	0	91.4	7.9	87
10/8/2008	7:00:00	22.4	6.5	58	0	91.4	7.9	88
10/8/2008	7:15:00	22.3	6.5	58	0	91.2	7.9	89
10/8/2008	7:30:00	22.2	6.5	58	0	91.2	7.9	90
10/8/2008	7:45:00	22.2	6.5	58	0	91.2	8	91
10/8/2008	8:00:00	22.1	6.5	58	0	91.4	8	92

10/8/2008	8:15:00	22	6.5	59	0	91.4	8	93
10/8/2008	8:30:00	22	6.5	58	0	91.8	8	94
10/8/2008	8:45:00	22	6.5	58	0	91.9	8	95
10/8/2008	9:00:00	21.9	6.5	58	0	91.9	8.1	96
10/8/2008	9:15:00	21.9	6.5	58	0	92.2	8.1	97
10/8/2008	9:30:00	21.8	6.5	58	0	92.5	8.1	98
10/8/2008	9:45:00	21.8	6.5	58	0	92.9	8.2	99
10/8/2008	10:00:00	21.8	6.5	58	0	93.1	8.2	100
10/8/2008	10:15:00	21.8	6.5	58	0	93.5	8.2	101
10/8/2008	10:30:00	21.8	6.5	58	0	94	8.3	102
10/8/2008	10:45:00	21.8	6.5	58	0	94.3	8.3	103
10/8/2008	11:00:00	21.9	6.5	58	0	95.2	8.3	104
10/8/2008	11:15:00	21.9	6.5	58	0	95.2	8.4	105
10/8/2008	11:30:00	21.9	6.5	58	0	95.8	8.4	106
10/8/2008	11:45:00	22	6.5	58	0	96.5	8.4	107
10/8/2008	12:00:00	22.1	6.5	58	0	97.1	8.5	108
10/8/2008	12:15:00	22.2	6.6	58	0	97.6	8.5	109
10/8/2008	12:30:00	22.3	6.6	58	0	97.9	8.5	110
10/8/2008	12:45:00	22.4	6.6	58	0	98.5	8.6	111
10/8/2008	13:00:00	22.5	6.6	58	0	99.2	8.6	112
10/8/2008	13:15:00	22.7	6.6	58	0	99.9	8.6	113
10/8/2008	13:30:00	22.8	6.6	58	0	100.4	8.6	114
10/8/2008	13:45:00	23	6.6	58	0	101	8.7	115
10/8/2008	14:00:00	23.2	6.6	58	0	101.5	8.7	116
10/8/2008	14:15:00	23.3	6.6	58	0	102.1	8.7	117
10/8/2008	14:30:00	23.4	6.6	58	0	102.2	8.7	118
10/8/2008	14:45:00	23.5	6.6	58	0	102.6	8.7	119
10/8/2008	15:00:00	23.6	6.6	58	0	102.9	8.7	120
10/8/2008	15:15:00	23.6	6.6	58	0	102.9	8.7	121
10/8/2008	15:30:00	23.6	6.6	58	0	102.9	8.7	122
10/8/2008	15:45:00	23.6	6.6	58	0	102.9	8.7	123
10/8/2008	16:00:00	23.7	6.6	58	0	102.8	8.7	124
10/8/2008	16:15:00	23.7	6.6	58	0	102.5	8.7	125
10/8/2008	16:30:00	23.7	6.6	58	0	102.6	8.7	126
10/8/2008	16:45:00	23.7	6.6	58	0	102.3	8.7	127
10/8/2008	17:00:00	23.7	6.6	58	0	102	8.6	128
10/8/2008	17:15:00	23.7	6.6	58	0	101.5	8.6	129

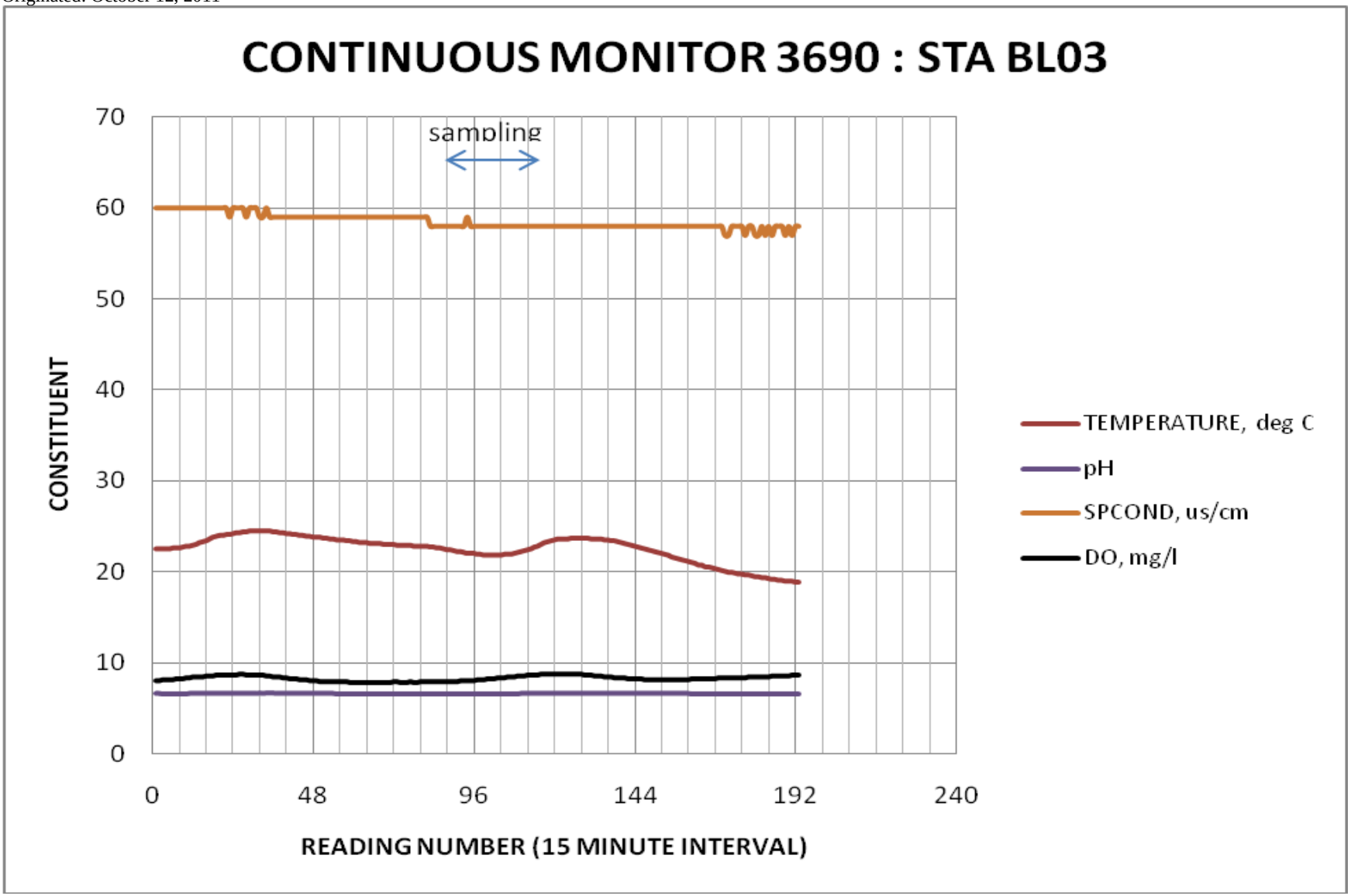
10/8/2008	17:30:00	23.6	6.6	58	0	101.2	8.6	130
10/8/2008	17:45:00	23.6	6.6	58	0	100.7	8.5	131
10/8/2008	18:00:00	23.6	6.6	58	0	100.2	8.5	132
10/8/2008	18:15:00	23.6	6.6	58	0	99.7	8.5	133
10/8/2008	18:30:00	23.5	6.6	58	0	99.4	8.4	134
10/8/2008	18:45:00	23.5	6.6	58	0	99.1	8.4	135
10/8/2008	19:00:00	23.4	6.6	58	0	98.4	8.4	136
10/8/2008	19:15:00	23.4	6.6	58	0	97.9	8.3	137
10/8/2008	19:30:00	23.3	6.6	58	0	97.4	8.3	138
10/8/2008	19:45:00	23.2	6.6	58	0	97	8.3	139
10/8/2008	20:00:00	23.1	6.6	58	0	96.6	8.3	140
10/8/2008	20:15:00	23	6.6	58	0	96	8.2	141
10/8/2008	20:30:00	22.9	6.6	58	0	95.8	8.2	142
10/8/2008	20:45:00	22.8	6.6	58	0	95.2	8.2	143
10/8/2008	21:00:00	22.7	6.6	58	0	94.9	8.2	144
10/8/2008	21:15:00	22.6	6.6	58	0	94.4	8.2	145
10/8/2008	21:30:00	22.5	6.6	58	0	93.9	8.1	146
10/8/2008	21:45:00	22.4	6.6	58	0	93.7	8.1	147
10/8/2008	22:00:00	22.3	6.6	58	0	93.6	8.1	148
10/8/2008	22:15:00	22.2	6.6	58	0	93.1	8.1	149
10/8/2008	22:30:00	22.1	6.6	58	0	92.8	8.1	150
10/8/2008	22:45:00	22	6.6	58	0	92.7	8.1	151
10/8/2008	23:00:00	21.9	6.6	58	0	92.6	8.1	152
10/8/2008	23:15:00	21.8	6.6	58	0	92.3	8.1	153
10/8/2008	23:30:00	21.6	6.6	58	0	91.9	8.1	154
10/8/2008	23:45:00	21.5	6.6	58	0	92	8.1	155
10/9/2008	0:00:00	21.4	6.6	58	0	91.9	8.1	156
10/9/2008	0:15:00	21.3	6.6	58	0	91.7	8.1	157
10/9/2008	0:30:00	21.2	6.6	58	0	91.6	8.1	158
10/9/2008	0:45:00	21.1	6.6	58	0	91.3	8.1	159
10/9/2008	1:00:00	21	6.5	58	0	91.3	8.2	160
10/9/2008	1:15:00	20.9	6.5	58	0	91.4	8.2	161
10/9/2008	1:30:00	20.7	6.5	58	0	91.1	8.2	162
10/9/2008	1:45:00	20.7	6.5	58	0	91.1	8.2	163
10/9/2008	2:00:00	20.5	6.5	58	0	91.1	8.2	164
10/9/2008	2:15:00	20.5	6.5	58	0	91.1	8.2	165
10/9/2008	2:30:00	20.4	6.5	58	0	91.1	8.2	166

10/9/2008	2:45:00	20.3	6.5	58	0	91	8.2	167
10/9/2008	3:00:00	20.2	6.5	58	0	91.2	8.3	168
10/9/2008	3:15:00	20.1	6.5	58	0	91	8.3	169
10/9/2008	3:30:00	20	6.5	57	0	90.9	8.3	170
10/9/2008	3:45:00	19.9	6.5	57	0	91.2	8.3	171
10/9/2008	4:00:00	19.9	6.5	58	0	90.9	8.3	172
10/9/2008	4:15:00	19.8	6.5	58	0	90.8	8.3	173
10/9/2008	4:30:00	19.7	6.5	58	0	91.1	8.3	174
10/9/2008	4:45:00	19.7	6.5	58	0	91.2	8.3	175
10/9/2008	5:00:00	19.6	6.5	57	0	91	8.3	176
10/9/2008	5:15:00	19.6	6.5	58	0	91.1	8.4	177
10/9/2008	5:30:00	19.5	6.5	58	0	91.1	8.4	178
10/9/2008	5:45:00	19.4	6.5	57	0	91.2	8.4	179
10/9/2008	6:00:00	19.4	6.5	57	0	91.1	8.4	180
10/9/2008	6:15:00	19.3	6.5	58	0	91.2	8.4	181
10/9/2008	6:30:00	19.3	6.5	57	0	91.3	8.4	182
10/9/2008	6:45:00	19.2	6.5	58	0	91.3	8.4	183
10/9/2008	7:00:00	19.1	6.5	57	0	91.5	8.5	184
10/9/2008	7:15:00	19.1	6.5	58	0	91.4	8.5	185
10/9/2008	7:30:00	19	6.5	58	0	91.4	8.5	186
10/9/2008	7:45:00	19	6.5	58	0	91.4	8.5	187
10/9/2008	8:00:00	18.9	6.5	57	0	91.8	8.5	188
10/9/2008	8:15:00	18.9	6.5	58	0	91.7	8.5	189
10/9/2008	8:30:00	18.9	6.5	57	0	92.1	8.6	190
10/9/2008	8:45:00	18.8	6.5	58	0	92.3	8.6	191
10/9/2008	9:00:00	18.8	6.5	58	0	92.6	8.6	192

	Temp °C	pH Units	SpCond µS/cm	Sal ppt	LDO% Sat	LDO mg/l
24 HOUR AVG	22.50313	6.552604	58.54167	0	95.21927	8.244792
24 HOUR MIN	18.8	6.5	57	0	90.8	7.8
24 HOUR MAX	24.5	6.7	60	0	103.6	8.7
SAMPLING PERIOD AVG	22.03478	6.521739	58.04348	0	94.56522	8.273913

SAMPLING PERIOD MIN	21.8	6.5	58	0	91.2	8
SAMPLING PERIOD MAX	22.7	6.6	59	0	99.9	8.6

SURVEY SAMPLING PERIOD WAS FROM 7:45 AM TO 1:15 PM ON 10/08/2008


CONTINUOUS MONITOR 3690 : STA BL03
sampling
70
60
50
40
30
20
10
0
CONSTITUENT
0
48
96
144
192
240
READING NUMBER (15 MINUTE INTERVAL)
TEMPERATURE, deg C
pH
SPCOND, us/cm
DO, mg/l

MiniSonde 5 43532
Log File Name : 3692
Setup Date (M/D/YYYY) : 10/6/2008
Setup Time (HH:MM:SS) : 10:29:23
Starting Date (M/D/YYYY) : 10/7/2008
Starting Time (HH:MM:SS) : 07:30:00
Stopping Date (M/D/YYYY) : 10/9/2008
Stopping Time (HH:MM:SS) : 23:59:59
Interval (HH:MM:SS) : 00:15:00
Sensor warmup (HH:MM:SS) : 00:00:30
Circltr warmup (HH:MM:SS) : 00:00:30

Date M/D/YYYY	Time HH:MM:SS	Temp °C	pH Units	SpCond µS/cm	Sal ppt	LDO% Sat	LDO mg/l	READING NUMBER
10/7/2008	8:30:00	22.72	6.31	58	0.02	88.8	7.65	0
10/7/2008	8:45:00	22.73	6.31	58	0.02	88.9	7.67	1
10/7/2008	9:00:00	22.73	6.3	58	0.02	89.2	7.69	2
10/7/2008	9:15:00	22.74	6.3	58	0.02	89.4	7.71	3
10/7/2008	9:30:00	22.75	6.3	58	0.02	89.4	7.7	4
10/7/2008	9:45:00	22.77	6.31	58	0.02	89.7	7.73	5
10/7/2008	10:00:00	22.81	6.29	58	0.02	89.9	7.74	6
10/7/2008	10:15:00	22.85	6.3	58	0.02	90.3	7.77	7
10/7/2008	10:30:00	22.91	6.3	58	0.02	90.9	7.81	8
10/7/2008	10:45:00	22.97	6.31	58	0.02	91.3	7.83	9
10/7/2008	11:00:00	23.07	6.3	58	0.02	92	7.88	10
10/7/2008	11:15:00	23.11	6.31	58	0.02	92.7	7.93	11
10/7/2008	11:30:00	23.21	6.31	58	0.02	93.2	7.96	12
10/7/2008	11:45:00	23.29	6.32	58	0.02	93.8	8	13
10/7/2008	12:00:00	23.39	6.32	58	0.02	94.4	8.03	14
10/7/2008	12:15:00	23.57	6.34	58	0.02	95.1	8.07	15
10/7/2008	12:30:00	23.7	6.33	58	0.02	95.7	8.1	16
10/7/2008	12:45:00	23.83	6.33	58	0.02	96.5	8.14	17
10/7/2008	13:00:00	23.99	6.35	58	0.02	97.1	8.18	18
10/7/2008	13:15:00	24.05	6.34	58	0.02	97.6	8.21	19
10/7/2008	13:30:00	24.11	6.33	58	0.02	98.2	8.25	20

10/7/2008	13:45:00	24.24	6.34	58	0.02	98.9	8.29	21
10/7/2008	14:00:00	24.28	6.34	58	0.02	99.6	8.34	22
10/7/2008	14:15:00	24.28	6.34	58	0.02	99.5	8.33	23
10/7/2008	14:30:00	24.3	6.34	58	0.02	99.7	8.35	24
10/7/2008	14:45:00	24.35	6.35	58	0.02	99.9	8.36	25
10/7/2008	15:00:00	24.39	6.36	58	0.02	100.5	8.39	26
10/7/2008	15:15:00	24.47	6.34	58	0.02	100.8	8.41	27
10/7/2008	15:30:00	24.49	6.35	58	0.02	101.1	8.43	28
10/7/2008	15:45:00	24.53	6.36	58	0.02	101.4	8.45	29
10/7/2008	16:00:00	24.56	6.36	58	0.02	101.4	8.44	30
10/7/2008	16:15:00	24.57	6.36	58	0.02	101.3	8.44	31
10/7/2008	16:30:00	24.57	6.36	58	0.02	101.3	8.43	32
10/7/2008	16:45:00	24.54	6.37	58	0.02	101.1	8.43	33
10/7/2008	17:00:00	24.52	6.37	58	0.02	101.1	8.42	34
10/7/2008	17:15:00	24.47	6.37	58	0.02	100.7	8.4	35
10/7/2008	17:30:00	24.43	6.37	58	0.02	100.5	8.39	36
10/7/2008	17:45:00	24.36	6.36	58	0.02	100	8.36	37
10/7/2008	18:00:00	24.31	6.37	58	0.02	99.7	8.35	38
10/7/2008	18:15:00	24.27	6.37	58	0.02	99.6	8.34	39
10/7/2008	18:30:00	24.23	6.37	58	0.02	99.1	8.3	40
10/7/2008	18:45:00	24.2	6.35	58	0.02	98.9	8.3	41
10/7/2008	19:00:00	24.17	6.36	58	0.02	98.6	8.27	42
10/7/2008	19:15:00	24.13	6.35	58	0.02	98.1	8.23	43
10/7/2008	19:30:00	24.09	6.34	58	0.02	97.8	8.22	44
10/7/2008	19:45:00	24.07	6.35	58	0.02	97.2	8.17	45
10/7/2008	20:00:00	24.05	6.34	58	0.02	96.7	8.13	46
10/7/2008	20:15:00	24.03	6.34	58	0.02	96.3	8.1	47
10/7/2008	20:30:00	24.01	6.34	58	0.02	95.7	8.06	48
10/7/2008	20:45:00	23.99	6.33	58	0.02	95.5	8.04	49
10/7/2008	21:00:00	23.99	6.34	58	0.02	95	8	50
10/7/2008	21:15:00	23.97	6.33	58	0.02	94.6	7.97	51
10/7/2008	21:30:00	23.96	6.33	58	0.02	94.1	7.92	52
10/7/2008	21:45:00	23.95	6.33	58	0.02	93.9	7.91	53
10/7/2008	22:00:00	23.94	6.32	58	0.02	93.6	7.89	54
10/7/2008	22:15:00	23.93	6.33	58	0.02	93.2	7.85	55
10/7/2008	22:30:00	23.92	6.32	58	0.02	92.8	7.83	56
10/7/2008	22:45:00	23.89	6.32	58	0.02	92.5	7.8	57

10/7/2008	23:00:00	23.86	6.32	58	0.02	92.1	7.77	58
10/7/2008	23:15:00	23.85	6.32	58	0.02	91.7	7.74	59
10/7/2008	23:30:00	23.82	6.31	58	0.02	91.4	7.72	60
10/7/2008	23:45:00	23.8	6.31	58	0.02	91.2	7.71	61
10/8/2008	0:00:00	23.76	6.3	58	0.02	91	7.69	62
10/8/2008	0:15:00	23.74	6.31	57	0.02	90.6	7.67	63
10/8/2008	0:30:00	23.72	6.3	58	0.02	90.2	7.64	64
10/8/2008	0:45:00	23.68	6.29	58	0.02	90	7.62	65
10/8/2008	1:00:00	23.66	6.29	57	0.02	89.8	7.61	66
10/8/2008	1:15:00	23.63	6.29	57	0.02	89.5	7.59	67
10/8/2008	1:30:00	23.59	6.28	57	0.02	89.4	7.58	68
10/8/2008	1:45:00	23.56	6.29	57	0.02	89.1	7.56	69
10/8/2008	2:00:00	23.53	6.28	57	0.02	89.1	7.56	70
10/8/2008	2:15:00	23.5	6.28	57	0.02	88.9	7.55	71
10/8/2008	2:30:00	23.47	6.28	58	0.02	88.7	7.54	72
10/8/2008	2:45:00	23.44	6.27	57	0.02	88.7	7.55	73
10/8/2008	3:00:00	23.4	6.27	57	0.02	88.4	7.52	74
10/8/2008	3:15:00	23.37	6.27	57	0.02	88.4	7.53	75
10/8/2008	3:30:00	23.33	6.28	58	0.02	88.2	7.52	76
10/8/2008	3:45:00	23.3	6.27	57	0.02	88.2	7.52	77
10/8/2008	4:00:00	23.26	6.26	57	0.02	88.2	7.53	78
10/8/2008	4:15:00	23.22	6.27	57	0.02	87.9	7.51	79
10/8/2008	4:30:00	23.19	6.26	57	0.02	87.9	7.51	80
10/8/2008	4:45:00	23.16	6.27	57	0.02	87.8	7.51	81
10/8/2008	5:00:00	23.13	6.26	57	0.02	87.9	7.52	82
10/8/2008	5:15:00	23.09	6.26	57	0.02	87.8	7.52	83
10/8/2008	5:30:00	23.04	6.26	57	0.02	87.7	7.52	84
10/8/2008	5:45:00	22.98	6.26	57	0.02	87.8	7.54	85
10/8/2008	6:00:00	22.92	6.26	57	0.02	87.8	7.54	86
10/8/2008	6:15:00	22.87	6.26	57	0.02	87.8	7.55	87
10/8/2008	6:30:00	22.81	6.26	57	0.02	87.7	7.55	88
10/8/2008	6:45:00	22.76	6.26	57	0.02	87.7	7.56	89
10/8/2008	7:00:00	22.68	6.26	57	0.02	87.6	7.56	90
10/8/2008	7:15:00	22.64	6.26	57	0.02	87.7	7.57	91
10/8/2008	7:30:00	22.58	6.26	57	0.02	87.5	7.57	92
10/8/2008	7:45:00	22.53	6.25	57	0.02	87.7	7.59	93
10/8/2008	8:00:00	22.51	6.26	57	0.02	87.7	7.59	94

10/8/2008	8:15:00	22.47	6.28	57	0.02	87.5	7.58	95
10/8/2008	8:30:00	22.43	6.31	57	0.02	87.6	7.6	96
10/8/2008	8:45:00	22.39	6.31	57	0.02	88	7.64	97
10/8/2008	9:00:00	22.36	6.3	57	0.02	88.2	7.66	98
10/8/2008	9:15:00	22.34	6.3	57	0.01	88.5	7.69	99
10/8/2008	9:30:00	22.32	6.31	57	0.02	88.6	7.7	100
10/8/2008	9:45:00	22.3	6.3	57	0.02	88.9	7.73	101
10/8/2008	10:00:00	22.3	6.31	57	0.02	89.2	7.75	102
10/8/2008	10:15:00	22.33	6.32	57	0.01	89.8	7.8	103
10/8/2008	10:30:00	22.36	6.32	57	0.02	90.1	7.82	104
10/8/2008	10:45:00	22.41	6.34	57	0.02	90.8	7.88	105
10/8/2008	11:00:00	22.44	6.32	57	0.01	91	7.89	106
10/8/2008	11:15:00	22.54	6.35	57	0.01	91.8	7.95	107
10/8/2008	11:30:00	22.62	6.31	57	0.01	92.2	7.96	108
10/8/2008	11:45:00	22.73	6.33	57	0.01	93	8.01	109
10/8/2008	12:00:00	22.86	6.33	57	0.01	93.4	8.03	110
10/8/2008	12:15:00	22.97	6.32	57	0.01	94.2	8.09	111
10/8/2008	12:30:00	23.12	6.34	57	0.01	95	8.13	112
10/8/2008	12:45:00	23.29	6.37	57	0.01	95.9	8.18	113
10/8/2008	13:00:00	23.48	6.36	57	0.01	96.9	8.24	114
10/8/2008	13:15:00	23.6	6.43	57	0.02	97.3	8.25	115
10/8/2008	13:30:00	23.68	6.43	57	0.02	98	8.3	116
10/8/2008	13:45:00	23.8	6.43	57	0.02	98.6	8.33	117
10/8/2008	14:00:00	23.87	6.4	57	0.01	99.2	8.37	118
10/8/2008	14:15:00	23.94	6.42	57	0.01	99.4	8.38	119
10/8/2008	14:30:00	23.98	6.38	57	0.01	99.7	8.4	120
10/8/2008	14:45:00	24.01	6.4	57	0.01	100.1	8.43	121
10/8/2008	15:00:00	24.03	6.38	57	0.01	100.2	8.43	122
10/8/2008	15:15:00	24.02	6.37	57	0.01	100.4	8.44	123
10/8/2008	15:30:00	24.01	6.37	57	0.01	100.3	8.44	124
10/8/2008	15:45:00	24.01	6.38	57	0.01	100.5	8.46	125
10/8/2008	16:00:00	24.03	6.36	57	0.01	100.7	8.47	126
10/8/2008	16:15:00	24.04	6.38	57	0.01	100.5	8.46	127
10/8/2008	16:30:00	24.03	6.35	56	0.01	100.6	8.46	128
10/8/2008	16:45:00	24.01	6.36	57	0.01	100.5	8.46	129
10/8/2008	17:00:00	23.98	6.36	56	0.01	100.4	8.46	130
10/8/2008	17:15:00	23.94	6.35	57	0.01	100.2	8.44	131

10/8/2008	17:30:00	23.89	6.36	57	0.01	99.9	8.42	132
10/8/2008	17:45:00	23.82	6.35	57	0.01	99.7	8.42	133
10/8/2008	18:00:00	23.77	6.33	56	0.01	99.6	8.42	134
10/8/2008	18:15:00	23.71	6.34	56	0.01	99	8.38	135
10/8/2008	18:30:00	23.65	6.33	56	0.01	98.5	8.35	136
10/8/2008	18:45:00	23.58	6.34	56	0.01	98.3	8.34	137
10/8/2008	19:00:00	23.51	6.31	57	0.01	97.6	8.29	138
10/8/2008	19:15:00	23.42	6.31	56	0.01	97.1	8.26	139
10/8/2008	19:30:00	23.35	6.31	57	0.01	96.9	8.26	140
10/8/2008	19:45:00	23.26	6.32	56	0.01	96.3	8.22	141
10/8/2008	20:00:00	23.18	6.31	56	0.01	96	8.2	142
10/8/2008	20:15:00	23.09	6.31	56	0.01	95.7	8.19	143
10/8/2008	20:30:00	23	6.31	57	0.01	95	8.15	144
10/8/2008	20:45:00	22.92	6.31	57	0.01	94.4	8.11	145
10/8/2008	21:00:00	22.84	6.3	56	0.01	94.4	8.12	146
10/8/2008	21:15:00	22.77	6.3	57	0.01	94	8.1	147
10/8/2008	21:30:00	22.7	6.3	57	0.01	93.6	8.07	148
10/8/2008	21:45:00	22.63	6.31	57	0.01	93.3	8.06	149
10/8/2008	22:00:00	22.56	6.29	56	0.01	92.9	8.03	150
10/8/2008	22:15:00	22.5	6.3	56	0.01	92.4	8	151
10/8/2008	22:30:00	22.44	6.29	57	0.01	92.1	7.98	152
10/8/2008	22:45:00	22.37	6.28	57	0.01	92	7.99	153
10/8/2008	23:00:00	22.31	6.28	56	0.01	91.5	7.95	154
10/8/2008	23:15:00	22.26	6.28	56	0.01	91.2	7.93	155
10/8/2008	23:30:00	22.18	6.28	57	0.01	90.9	7.92	156
10/8/2008	23:45:00	22.12	6.28	56	0.01	90.7	7.91	157
10/9/2008	0:00:00	22.05	6.28	56	0.01	90.5	7.9	158
10/9/2008	0:15:00	21.99	6.28	56	0.01	90.4	7.91	159
10/9/2008	0:30:00	21.91	6.28	56	0.01	90	7.88	160
10/9/2008	0:45:00	21.84	6.28	56	0.01	89.6	7.86	161
10/9/2008	1:00:00	21.76	6.27	56	0.01	89.4	7.85	162
10/9/2008	1:15:00	21.69	6.27	57	0.01	89.5	7.87	163
10/9/2008	1:30:00	21.61	6.27	56	0.01	89.3	7.87	164
10/9/2008	1:45:00	21.53	6.27	56	0.01	89.1	7.86	165
10/9/2008	2:00:00	21.45	6.27	56	0.01	88.9	7.85	166
10/9/2008	2:15:00	21.37	6.27	56	0.01	89	7.88	167
10/9/2008	2:30:00	21.29	6.27	56	0.01	88.7	7.86	168

10/9/2008	2:45:00	21.21	6.27	56	0.01	88.6	7.87	169
10/9/2008	3:00:00	21.12	6.26	56	0.01	88.2	7.84	170
10/9/2008	3:15:00	21.04	6.27	56	0.01	88.5	7.88	171
10/9/2008	3:30:00	20.96	6.26	57	0.01	88.3	7.88	172
10/9/2008	3:45:00	20.87	6.27	56	0.01	88.2	7.88	173
10/9/2008	4:00:00	20.8	6.27	56	0.01	88.2	7.89	174
10/9/2008	4:15:00	20.73	6.28	56	0.01	88.1	7.9	175
10/9/2008	4:30:00	20.67	6.26	56	0.01	88.2	7.91	176
10/9/2008	4:45:00	20.59	6.26	56	0.01	87.9	7.9	177
10/9/2008	5:00:00	20.52	6.26	56	0.01	88.2	7.93	178
10/9/2008	5:15:00	20.43	6.26	56	0.01	87.8	7.92	179
10/9/2008	5:30:00	20.35	6.25	56	0.01	88	7.94	180
10/9/2008	5:45:00	20.27	6.26	56	0.01	88	7.96	181
10/9/2008	6:00:00	20.18	6.25	56	0.01	87.9	7.96	182
10/9/2008	6:15:00	20.1	6.26	56	0.01	87.8	7.96	183
10/9/2008	6:30:00	20.01	6.25	56	0.01	87.9	7.99	184
10/9/2008	6:45:00	19.94	6.24	56	0.01	87.9	8	185
10/9/2008	7:00:00	19.85	6.25	56	0.01	88.1	8.03	186
10/9/2008	7:15:00	19.78	6.24	57	0.01	87.8	8.02	187
10/9/2008	7:30:00	19.71	6.25	56	0.01	88.1	8.06	188
10/9/2008	7:45:00	19.64	6.25	56	0.01	88.3	8.08	189
10/9/2008	8:00:00	19.58	6.24	56	0.01	88.4	8.1	190
10/9/2008	8:15:00	19.53	6.25	56	0.01	88.4	8.11	191
10/9/2008	8:30:00	19.48	6.24	56	0.01	88.9	8.16	192

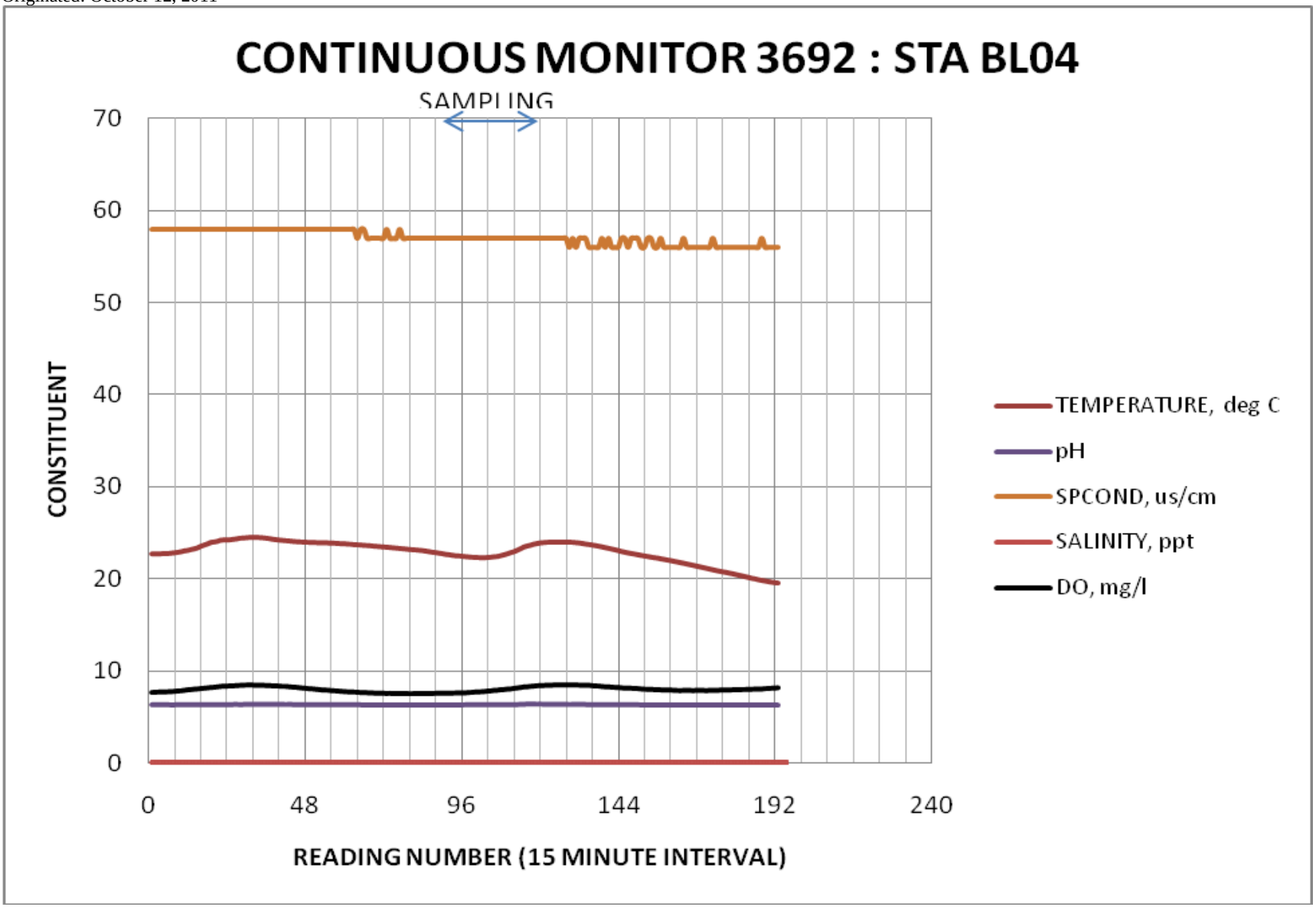
	Temp °C	pH Units	SpCond µS/cm	Sal ppt	LDO% Sat	LDO mg/l
24 HOUR AVG	22.96026	6.310677	57.10417	0.015573	93.04167	7.98333
24 HOUR MIN	19.53	6.24	56	0.01	87.5	7.51
24 HOUR MAX	24.57	6.43	58	0.02	101.4	8.47

24 HOURS WAS FROM 8:30 TO 8:15 OVER 2 DAYS SINCE WE HAD 2 FULL DAYS OF DATA

SAMPLING PERIOD AVG	22.63913	6.320435	57	0.015217	91.01304	7.85913

SAMPLING PERIOD MIN	22.3	6.25	57	0.01	87.5	7.58
SAMPLING PERIOD MAX	23.6	6.43	57	0.02	97.3	8.25

SURVEY SAMPLING PERIOD WAS FROM 7:45 AM TO 1:15 PM ON 10/08/2008


CONTINUOUS MONITOR 3692 : STA BL04
SAMPLING
70
60
50
40
30
20
10
0
CONSTITUENT
0
48
96
144
192
240
READING NUMBER (15 MINUTE INTERVAL)
TEMPERATURE, deg C
pH
SPCOND, us/cm
SALINITY, ppt
DO, mg/l

M/D/YYYY	HH:MM:SS	°C	Units	ppt	µS/cm	Sat	mg/l	NUMBER
10/7/2008	8:00:00	25.93	7.28	0.16	323	66.3	5.38	0
10/7/2008	8:15:00	26.09	7.28	0.16	326	66.5	5.38	1
10/7/2008	8:30:00	26.28	7.27	0.16	330	67.9	5.48	2
10/7/2008	8:45:00	26.55	7.26	0.16	333	69.1	5.55	3
10/7/2008	9:00:00	26.92	7.26	0.17	351	70.8	5.65	4
10/7/2008	9:15:00	27.26	7.24	0.15	303	72.8	5.77	5
10/7/2008	9:30:00	27.41	7.24	0.18	368	72.7	5.75	6
10/7/2008	9:45:00	27.48	7.23	0.2	395	72.3	5.71	7
10/7/2008	10:00:00	27.57	7.23	0.19	378	72.1	5.68	8
10/7/2008	10:15:00	27.73	7.23	0.16	335	75.6	5.94	9
10/7/2008	10:30:00	27.94	7.23	0.19	386	77.2	6.05	10
10/7/2008	10:45:00	28.22	7.22	0.09	197	77.5	6.04	11
10/7/2008	11:00:00	27.5	7.22	0.08	177	78.4	6.19	12
10/7/2008	11:15:00	26.22	1.59	-0.02	0	99.6	8.05	13
10/7/2008	11:30:00	23.65	6.14	3.23	5847	1	0.09	14
10/7/2008	11:45:00	23.78	6.18	3.65	6579	0.6	0.05	15
10/7/2008	12:00:00	23.78	6.17	3.88	6973	1.6	0.14	16
10/7/2008	12:15:00	23.89	6.14	3.36	6072	4.1	0.34	17
10/7/2008	12:30:00	23.95	6.16	3.52	6355	2.8	0.23	18
10/7/2008	12:45:00	23.87	6.16	3.43	6205	0.3	0.03	19
10/7/2008	13:00:00	23.89	6.17	3.51	6340	0.6	0.05	20
10/7/2008	13:15:00	23.73	6.17	3.21	5825	0.4	0.03	21
10/7/2008	13:30:00	23.67	6.11	2.73	4972	0.6	0.05	22
10/7/2008	13:45:00	23.63	6.09	2.33	4272	1.9	0.16	23
10/7/2008	14:00:00	23.58	6.1	2.25	4130	1.7	0.14	24
10/7/2008	14:15:00	23.72	6.12	3.02	5482	0.4	0.03	25
10/7/2008	14:30:00	23.42	6.12	0.91	1704	3.1	0.26	26
10/7/2008	14:45:00	23.77	6.18	3.24	5874	0.5	0.04	27
10/7/2008	15:00:00	23.75	6.15	3.1	5631	0.8	0.07	28

10/7/2008	15:15:00	23.85	6.15	3.39	6132	0.7	0.05	29
10/7/2008	15:30:00	23.83	6.15	3.15	5711	0.6	0.05	30
10/7/2008	15:45:00	23.84	6.15	3.01	5461	0.6	0.05	31
10/7/2008	16:00:00	23.87	6.16	3.37	6088	0.3	0.03	32
10/7/2008	16:15:00	23.94	6.16	3.42	6178	0.4	0.04	33
10/7/2008	16:30:00	23.78	6.14	2.45	4488	0.4	0.03	34
10/7/2008	16:45:00	23.68	6.15	2	3671	0.3	0.03	35
10/7/2008	17:00:00	23.6	6.08	2.34	4294	3.7	0.31	36
10/7/2008	17:15:00	23.59	6.1	1.69	3128	9.6	0.8	37
10/7/2008	17:30:00	23.38	6.07	0.59	1121	29.8	2.53	38
10/7/2008	17:45:00	23.37	6.09	0.63	1194	44.5	3.78	39
10/7/2008	18:00:00	23.51	6.08	0.59	1117	42.6	3.61	40
10/7/2008	18:15:00	23.48	6.08	0.69	1307	29.2	2.47	41
10/7/2008	18:30:00	23.4	6.06	0.65	1239	43.6	3.7	42
10/7/2008	18:45:00	23.52	6.06	0.49	940	45.4	3.85	43
10/7/2008	19:00:00	23.45	6.07	0.48	917	44.6	3.79	44
10/7/2008	19:15:00	23.45	6.06	0.48	924	45.9	3.89	45
10/7/2008	19:30:00	23.41	6.06	0.55	1053	43.7	3.71	46
10/7/2008	19:45:00	23.48	6.06	0.43	829	46.5	3.95	47
10/7/2008	20:00:00	23.48	6.06	0.48	921	44.8	3.8	48
10/7/2008	20:15:00	23.47	6.05	0.52	995	45.5	3.86	49
10/7/2008	20:30:00	23.43	6.07	0.49	943	45	3.82	50
10/7/2008	20:45:00	23.51	6.06	0.43	822	46.1	3.91	51
10/7/2008	21:00:00	23.47	6.06	0.46	877	46.8	3.97	52
10/7/2008	21:15:00	23.44	6.07	0.49	943	46.3	3.93	53
10/7/2008	21:30:00	23.46	6.06	0.45	861	47.1	4	54
10/7/2008	21:45:00	23.43	6.06	0.45	862	46.7	3.97	55
10/7/2008	22:00:00	23.46	6.06	0.43	824	47.2	4	56
10/7/2008	22:15:00	23.49	6.05	0.47	897	45.8	3.88	57
10/7/2008	22:30:00	23.5	6.05	0.44	852	45.9	3.89	58
10/7/2008	22:45:00	23.44	6.05	0.47	911	45.6	3.87	59
10/7/2008	23:00:00	23.47	6.06	0.4	764	47.3	4.01	60

10/7/2008	23:15:00	23.48	6.06	0.41	791	47.5	4.03	61
10/7/2008	23:30:00	23.43	6.06	0.43	827	47.5	4.03	62
10/7/2008	23:45:00	23.42	6.05	0.43	819	46.9	3.98	63
10/8/2008	0:00:00	23.47	6.05	0.41	791	46.6	3.95	64
10/8/2008	0:15:00	23.51	6.04	0.4	769	47.1	3.99	65
10/8/2008	0:30:00	23.42	6.05	0.49	934	45.1	3.83	66
10/8/2008	0:45:00	23.44	6.05	0.5	951	43.9	3.73	67
10/8/2008	1:00:00	23.43	6.06	0.45	862	45.7	3.88	68
10/8/2008	1:15:00	23.4	6.06	0.45	862	46.4	3.94	69
10/8/2008	1:30:00	23.43	6.05	0.42	816	47.1	4	70
10/8/2008	1:45:00	23.41	6.05	0.47	893	45.5	3.87	71
10/8/2008	2:00:00	23.36	6.05	0.48	918	45.9	3.9	72
10/8/2008	2:15:00	23.41	6.05	0.48	918	45.7	3.88	73
10/8/2008	2:30:00	23.32	6.06	0.43	832	46.3	3.94	74
10/8/2008	2:45:00	23.36	6.06	0.4	780	47.2	4.02	75
10/8/2008	3:00:00	23.36	6.05	0.38	745	47.6	4.05	76
10/8/2008	3:15:00	23.34	6.05	0.4	770	47.7	4.05	77
10/8/2008	3:30:00	23.37	6.05	0.36	702	47.9	4.07	78
10/8/2008	3:45:00	23.39	6.04	0.36	692	48.1	4.08	79
10/8/2008	4:00:00	23.34	6.04	0.4	775	46.8	3.98	80
10/8/2008	4:15:00	23.33	6.05	0.43	831	45.9	3.9	81
10/8/2008	4:30:00	23.36	6.04	0.49	941	44.5	3.78	82
10/8/2008	4:45:00	23.36	6.05	0.42	810	46.3	3.93	83
10/8/2008	5:00:00	23.37	6.04	0.43	836	45.1	3.83	84
10/8/2008	5:15:00	23.37	6.05	0.45	872	45.4	3.85	85
10/8/2008	5:30:00	23.35	6.05	0.4	768	46.3	3.94	86
10/8/2008	5:45:00	23.36	6.05	0.43	823	45.7	3.88	87
10/8/2008	6:00:00	23.32	6.05	0.41	796	46.8	3.98	88
10/8/2008	6:15:00	23.3	6.05	0.41	782	47.2	4.01	89
10/8/2008	6:30:00	23.31	6.05	0.39	758	47.2	4.02	90
10/8/2008	6:45:00	23.31	6.05	0.36	698	47.2	4.02	91
10/8/2008	7:00:00	23.33	6.03	0.49	938	43.9	3.73	92

10/8/2008	7:15:00	23.26	6.05	0.34	670	46.4	3.95	93
10/8/2008	7:30:00	23.16	6.04	0.29	575	48.3	4.13	94
10/8/2008	7:45:00	23.19	6.04	0.32	626	47.9	4.09	95
10/8/2008	8:00:00	23.1	6.05	0.27	530	49.9	4.27	96
10/8/2008	8:15:00	23.08	6.04	0.3	583	47.7	4.08	97
10/8/2008	8:30:00	23.15	6.02	0.36	700	47.3	4.04	98
10/8/2008	8:45:00	23.05	6.03	0.31	600	47.8	4.09	99
10/8/2008	9:00:00	22.98	6.02	0.27	531	48.1	4.12	100
10/8/2008	9:15:00	23.02	6.01	0.34	670	47.1	4.03	101
10/8/2008	9:30:00	23	6.02	0.33	640	46.9	4.01	102
10/8/2008	9:45:00	23.01	6.02	0.3	586	47.1	4.03	103
10/8/2008	10:00:00	23.02	6.02	0.35	685	46.9	4.02	104
10/8/2008	10:15:00	23.04	6.03	0.33	644	47.1	4.03	105
10/8/2008	10:30:00	23.1	6.02	0.37	712	46.2	3.95	106
10/8/2008	10:45:00	23.15	6.02	0.42	812	45.2	3.86	107
10/8/2008	11:00:00	23.1	6.03	0.35	682	46.5	3.98	108
10/8/2008	11:15:00	23.11	6.02	0.38	728	45.5	3.89	109
10/8/2008	11:30:00	23.14	6.02	0.4	764	45.7	3.9	110
10/8/2008	11:45:00	23.11	6.02	0.37	726	45.5	3.89	111
10/8/2008	12:00:00	23.16	6.02	0.36	702	45.2	3.86	112
10/8/2008	12:15:00	23.26	6.03	0.41	792	42.6	3.63	113
10/8/2008	12:30:00	23.15	6.01	0.32	620	44.7	3.82	114
10/8/2008	12:45:00	23.43	6	0.7	1327	33.3	2.82	115
10/8/2008	13:00:00	23.27	6.04	0.39	757	44.5	3.79	116
10/8/2008	13:15:00	23.23	6.03	0.3	589	46.9	4	117
10/8/2008	13:30:00	23.51	6.04	0.37	715	47	3.99	118
10/8/2008	13:45:00	23.29	6.04	0.31	612	47.4	4.04	119
10/8/2008	14:00:00	23.36	6.03	0.39	754	46.1	3.92	120
10/8/2008	14:15:00	23.54	6.03	0.37	717	46.9	3.97	121
10/8/2008	14:30:00	23.53	6.03	0.36	706	46.8	3.97	122
10/8/2008	14:45:00	23.53	6.03	0.37	724	47	3.98	123
10/8/2008	15:00:00	23.38	6.03	0.33	651	48.3	4.1	124

10/8/2008	15:15:00	23.58	6.04	0.35	674	47.5	4.02	125
10/8/2008	15:30:00	23.56	6.03	0.34	665	46	3.89	126
10/8/2008	15:45:00	23.7	6.06	0.31	613	47.6	4.02	127
10/8/2008	16:00:00	23.76	6.02	0.3	590	47.7	4.02	128
10/8/2008	16:15:00	23.71	6.04	0.29	574	48.5	4.1	129
10/8/2008	16:30:00	23.53	6.04	0.31	609	49.3	4.18	130
10/8/2008	16:45:00	23.75	6.05	0.31	602	49.7	4.19	131
10/8/2008	17:00:00	23.69	6.05	0.31	597	49.2	4.16	132
10/8/2008	17:15:00	23.58	6.04	0.34	655	49.5	4.19	133
10/8/2008	17:30:00	23.78	6.05	0.3	587	49	4.13	134
10/8/2008	17:45:00	23.82	6.08	0.29	576	49.8	4.2	135
10/8/2008	18:00:00	23.81	6.05	0.34	656	49.1	4.14	136
10/8/2008	18:15:00	23.64	6.05	0.32	628	48.9	4.14	137
10/8/2008	18:30:00	24.01	6.03	0.33	650	48.6	4.09	138
10/8/2008	18:45:00	23.73	6.06	0.32	621	49.2	4.15	139
10/8/2008	19:00:00	23.73	6.03	0.31	613	49.5	4.18	140
10/8/2008	19:15:00	23.83	6.01	0.27	528	49.2	4.15	141
10/8/2008	19:30:00	23.69	6.01	0.29	561	49.1	4.15	142
10/8/2008	19:45:00	23.71	6.01	0.27	535	48.2	4.08	143
10/8/2008	20:00:00	23.67	6.02	0.27	524	49.4	4.18	144
10/8/2008	20:15:00	23.63	6.02	0.27	534	49.2	4.16	145
10/8/2008	20:30:00	23.55	6.02	0.27	525	48.7	4.13	146
10/8/2008	20:45:00	23.49	6	0.27	532	47.5	4.03	147
10/8/2008	21:00:00	23.46	6	0.28	548	47.9	4.06	148
10/8/2008	21:15:00	23.51	6	0.29	570	47.6	4.04	149
10/8/2008	21:30:00	23.37	6	0.28	555	47.1	4.01	150
10/8/2008	21:45:00	23.35	6	0.29	571	47.2	4.02	151
10/8/2008	22:00:00	23.37	6	0.31	612	47.3	4.02	152
10/8/2008	22:15:00	23.32	5.99	0.3	580	45.7	3.89	153
10/8/2008	22:30:00	23.25	6.01	0.3	579	46.8	3.99	154
10/8/2008	22:45:00	23.16	6	0.3	587	47.2	4.03	155
10/8/2008	23:00:00	23.17	6	0.31	598	47.1	4.02	156

10/8/2008	23:15:00	23.12	6	0.31	603	46.9	4	157
10/8/2008	23:30:00	23.13	5.99	0.31	611	46.4	3.96	158
10/8/2008	23:45:00	23.08	5.99	0.31	606	46.2	3.95	159
10/9/2008	0:00:00	23.02	5.98	0.31	598	46.4	3.97	160
10/9/2008	0:15:00	23.01	5.98	0.32	616	46	3.93	161
10/9/2008	0:30:00	22.95	5.98	0.31	599	45.4	3.89	162
10/9/2008	0:45:00	22.9	5.98	0.3	590	45	3.86	163
10/9/2008	1:00:00	22.91	5.97	0.31	613	45	3.86	164
10/9/2008	1:15:00	22.86	5.97	0.3	592	44.8	3.84	165
10/9/2008	1:30:00	22.82	5.98	0.3	591	44.8	3.85	166
10/9/2008	1:45:00	22.79	5.98	0.3	594	44.8	3.85	167
10/9/2008	2:00:00	22.79	5.97	0.31	603	44.6	3.83	168
10/9/2008	2:15:00	22.75	5.97	0.3	596	44.4	3.82	169
10/9/2008	2:30:00	22.7	5.97	0.31	600	44.4	3.82	170
10/9/2008	2:45:00	22.64	5.97	0.3	585	44.9	3.87	171
10/9/2008	3:00:00	22.62	5.97	0.3	594	44.5	3.84	172
10/9/2008	3:15:00	22.57	5.97	0.3	591	44.7	3.86	173
10/9/2008	3:30:00	22.56	5.98	0.3	594	44.2	3.82	174
10/9/2008	3:45:00	22.51	5.97	0.3	596	44.7	3.86	175
10/9/2008	4:00:00	22.49	5.96	0.31	600	44.1	3.82	176
10/9/2008	4:15:00	22.48	5.98	0.31	599	44.6	3.86	177
10/9/2008	4:30:00	22.47	5.96	0.31	605	43.8	3.79	178
10/9/2008	4:45:00	22.41	5.97	0.31	597	44.5	3.86	179
10/9/2008	5:00:00	22.4	5.97	0.31	600	44.1	3.82	180
10/9/2008	5:15:00	22.38	5.97	0.31	601	43.9	3.8	181
10/9/2008	5:30:00	22.31	5.98	0.3	596	44.5	3.86	182
10/9/2008	5:45:00	22.32	5.97	0.31	606	44	3.82	183
10/9/2008	6:00:00	22.25	5.98	0.3	594	44.4	3.86	184
10/9/2008	6:15:00	22.25	5.98	0.31	600	44.4	3.86	185
10/9/2008	6:30:00	22.22	5.98	0.31	598	44.3	3.85	186
10/9/2008	6:45:00	22.23	5.97	0.31	608	43.7	3.8	187
10/9/2008	7:00:00	22.2	5.98	0.31	612	43.9	3.81	188

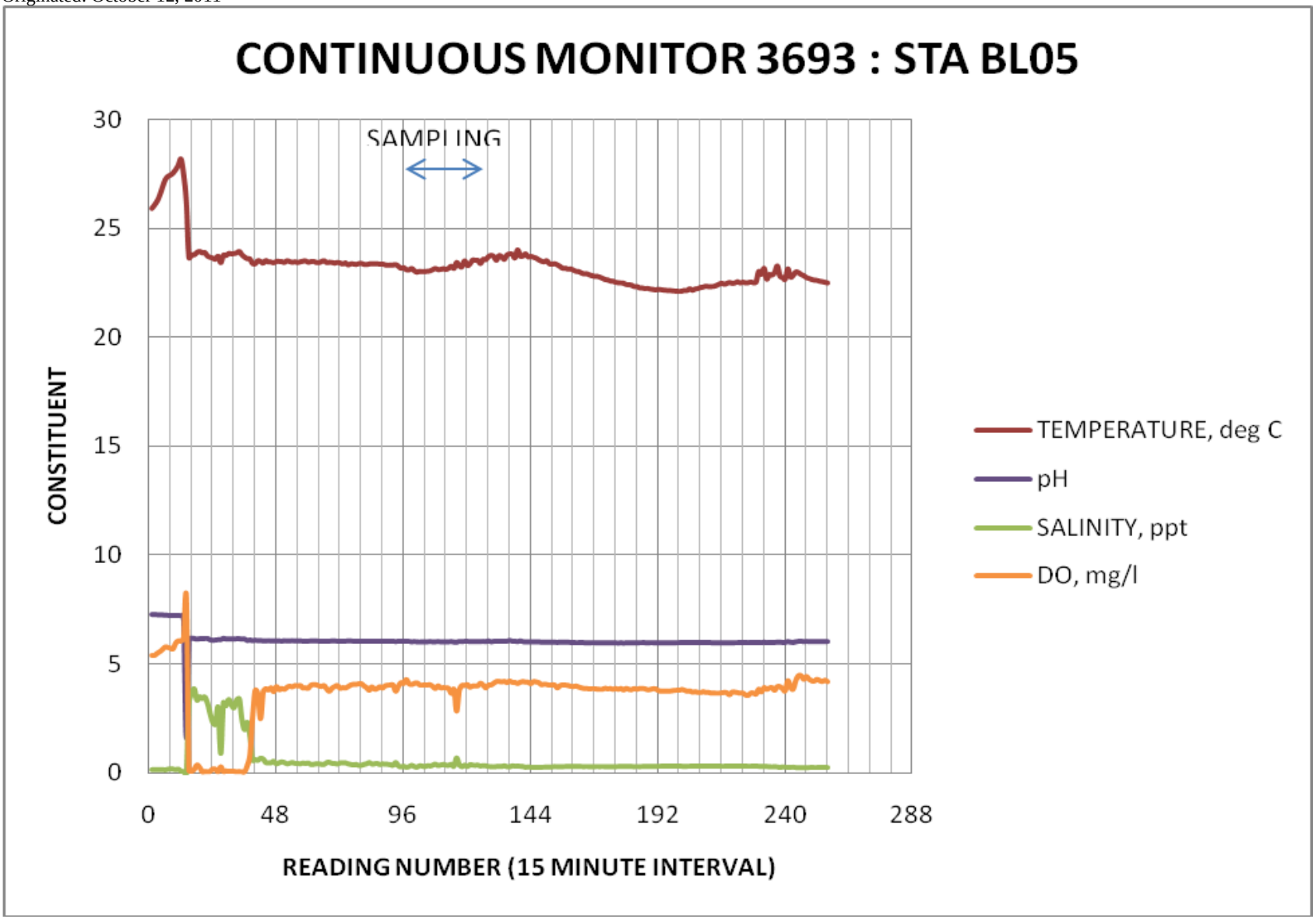
10/9/2008	7:15:00	22.18	5.98	0.31	613	44.1	3.84	189
10/9/2008	7:30:00	22.16	5.97	0.31	612	44.3	3.85	190
10/9/2008	7:45:00	22.18	5.98	0.32	618	43.4	3.77	191
10/9/2008	8:00:00	22.17	5.97	0.32	620	42.9	3.73	192
10/9/2008	8:15:00	22.15	5.97	0.32	619	42.8	3.73	193
10/9/2008	8:30:00	22.14	5.97	0.32	622	42.8	3.73	194
10/9/2008	8:45:00	22.12	5.97	0.32	623	42.9	3.73	195
10/9/2008	9:00:00	22.12	5.97	0.32	624	43.1	3.75	196
10/9/2008	9:15:00	22.11	5.97	0.32	624	43.3	3.77	197
10/9/2008	9:30:00	22.1	5.98	0.32	622	43.4	3.78	198
10/9/2008	9:45:00	22.09	5.98	0.32	621	43.4	3.78	199
10/9/2008	10:00:00	22.1	5.98	0.32	619	43.7	3.81	200
10/9/2008	10:15:00	22.14	5.98	0.31	613	43.5	3.78	201
10/9/2008	10:30:00	22.13	5.98	0.32	615	42.9	3.73	202
10/9/2008	10:45:00	22.21	5.98	0.32	617	43.2	3.75	203
10/9/2008	11:00:00	22.14	5.98	0.32	624	42.3	3.69	204
10/9/2008	11:15:00	22.2	5.98	0.32	620	42.6	3.71	205
10/9/2008	11:30:00	22.22	5.98	0.32	618	42.4	3.68	206
10/9/2008	11:45:00	22.27	5.98	0.32	619	42.3	3.67	207
10/9/2008	12:00:00	22.29	5.98	0.32	620	42.8	3.71	208
10/9/2008	12:15:00	22.33	5.98	0.32	631	42.4	3.68	209
10/9/2008	12:30:00	22.31	5.98	0.32	631	42.5	3.68	210
10/9/2008	12:45:00	22.31	5.98	0.33	635	42	3.65	211
10/9/2008	13:00:00	22.32	5.97	0.33	638	42	3.65	212
10/9/2008	13:15:00	22.36	5.98	0.33	638	42	3.64	213
10/9/2008	13:30:00	22.42	5.97	0.33	635	42.1	3.64	214
10/9/2008	13:45:00	22.47	5.97	0.32	631	42.3	3.66	215
10/9/2008	14:00:00	22.42	5.97	0.32	630	42.5	3.68	216
10/9/2008	14:15:00	22.46	5.97	0.32	633	42.3	3.66	217
10/9/2008	14:30:00	22.5	5.97	0.32	626	41.3	3.57	218
10/9/2008	14:45:00	22.46	5.97	0.32	623	42.7	3.7	219
10/9/2008	15:00:00	22.48	5.98	0.32	624	42.7	3.69	220

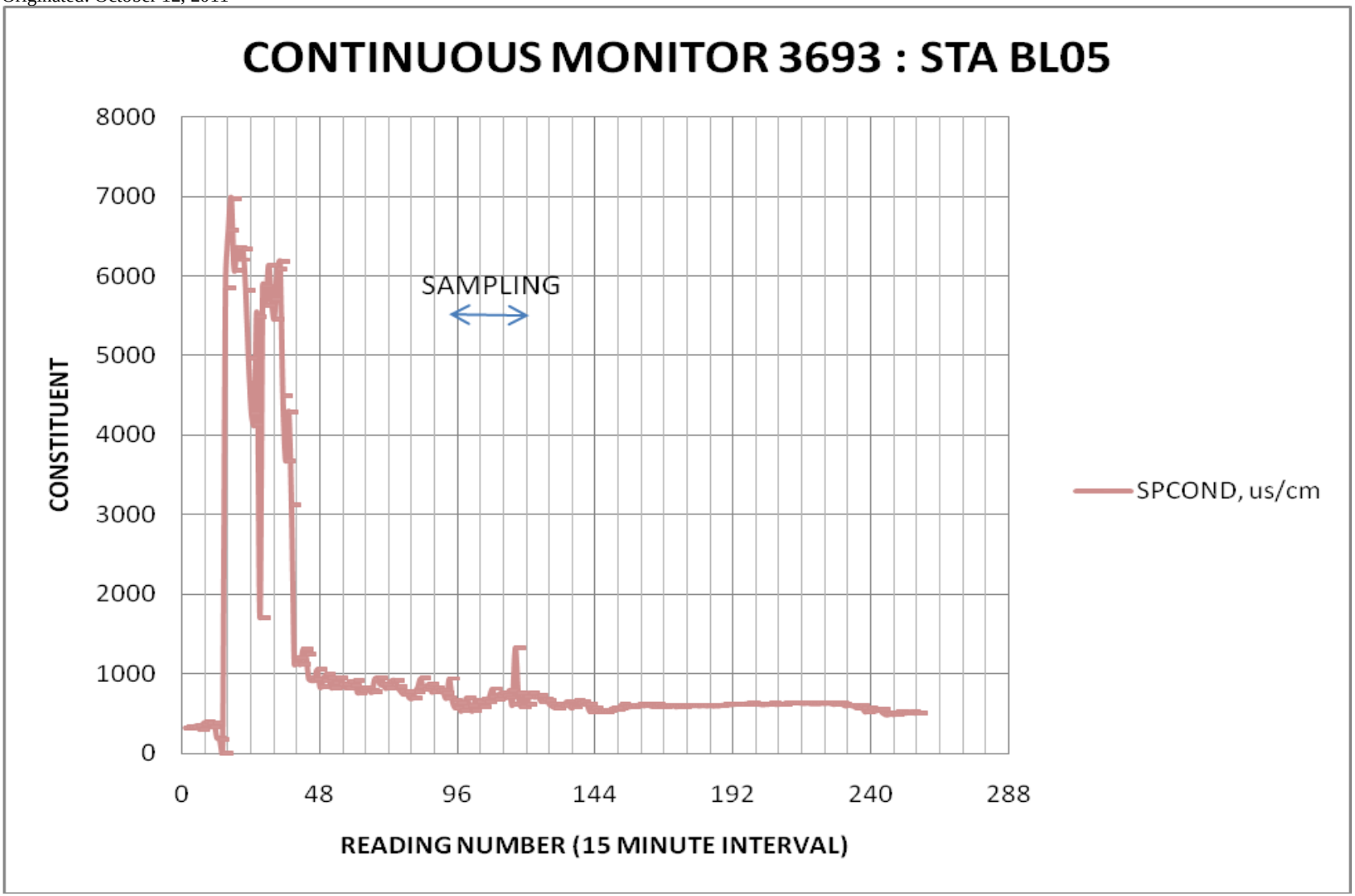
10/9/2008	15:15:00	22.54	5.98	0.32	626	42.4	3.67	221
10/9/2008	15:30:00	22.48	5.99	0.32	633	42.1	3.64	222
10/9/2008	15:45:00	22.52	5.99	0.32	627	42.2	3.65	223
10/9/2008	16:00:00	22.48	5.99	0.33	635	41.2	3.56	224
10/9/2008	16:15:00	22.49	5.98	0.32	626	41	3.54	225
10/9/2008	16:30:00	22.53	5.99	0.32	618	42.3	3.65	226
10/9/2008	16:45:00	22.49	5.99	0.32	622	42.2	3.65	227
10/9/2008	17:00:00	22.53	5.99	0.33	639	41.7	3.6	228
10/9/2008	17:15:00	23.01	5.99	0.32	618	44.8	3.83	229
10/9/2008	17:30:00	22.87	5.98	0.31	597	43.1	3.7	230
10/9/2008	17:45:00	23.16	6	0.31	605	45.7	3.9	231
10/9/2008	18:00:00	22.66	5.98	0.31	604	44.3	3.82	232
10/9/2008	18:15:00	22.87	5.99	0.3	593	45.2	3.88	233
10/9/2008	18:30:00	22.84	5.99	0.29	573	45.4	3.9	234
10/9/2008	18:45:00	22.96	5.99	0.3	593	44.1	3.78	235
10/9/2008	19:00:00	23.27	6	0.29	567	46.4	3.95	236
10/9/2008	19:15:00	22.8	6	0.26	520	45.9	3.94	237
10/9/2008	19:30:00	22.73	5.99	0.29	571	44.7	3.85	238
10/9/2008	19:45:00	22.65	5.99	0.28	547	43.5	3.75	239
10/9/2008	20:00:00	23.13	6.03	0.27	531	49.4	4.22	240
10/9/2008	20:15:00	22.76	6	0.27	538	45.4	3.91	241
10/9/2008	20:30:00	22.83	5.99	0.28	552	44.6	3.83	242
10/9/2008	20:45:00	22.99	6.02	0.26	510	49.4	4.23	243
10/9/2008	21:00:00	22.96	6.04	0.25	487	51.9	4.45	244
10/9/2008	21:15:00	22.87	6.05	0.25	486	51.7	4.44	245
10/9/2008	21:30:00	22.82	6.03	0.25	500	49.8	4.28	246
10/9/2008	21:45:00	22.73	6.04	0.25	488	51.3	4.41	247
10/9/2008	22:00:00	22.69	6.03	0.26	519	49.6	4.28	248
10/9/2008	22:15:00	22.64	6.03	0.27	525	48.8	4.21	249
10/9/2008	22:30:00	22.61	6.03	0.26	508	48.7	4.2	250
10/9/2008	22:45:00	22.6	6.03	0.26	507	49.6	4.28	251
10/9/2008	23:00:00	22.56	6.03	0.26	512	48.9	4.22	252

10/9/2008	23:15:00	22.54	6.03	0.26	519	48.4	4.18	253
10/9/2008	23:30:00	22.51	6.03	0.26	508	49	4.24	254
10/9/2008	23:45:00	22.48	6.03	0.26	511	48.1	4.17	255

	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l
24 HOURS WAS FROM NOON TO NOON OVER 2 DAYS SINCE WE HAD 2 FULL DAYS OF DATA.						
24 HOUR AVG	23.19104	6.034271	0.653177	1225.672	40.68229	3.473958
24 HOUR MIN	22.09	5.96	0.27	524	0.3	0.03
24 HOUR MAX	24.01	6.18	3.88	6973	49.9	4.27
SAMPLING PERIOD AVG	23.12391	6.024348	0.358696	695.913	45.89565	3.921739
SAMPLING PERIOD MIN	22.98	6	0.27	530	33.3	2.82
SAMPLING PERIOD MAX	23.43	6.05	0.7	1327	49.9	4.27

SURVEY SAMPLING PERIOD WAS FROM 7:45 AM TO 1:15 PM ON 10/08/2008


CONTINUOUS MONITOR 3693 : STA BL05
SAMPLING
CONSTITUENT
30
25
20
15
10
5
0
0
48
96
144
192
240
288
READING NUMBER (15 MINUTE INTERVAL)
TEMPERATURE, deg C
pH
SALINITY, ppt
DO, mg/l


CONTINUOUS MONITOR 3693 : STA BL05
8000
7000
6000
5000
4000
3000
2000
1000
0
CONSTITUENT
SAMPLING
0
48
96
144
192
240
288
READING NUMBER (15 MINUTE INTERVAL)
SPCOND, us/cm

CONTINUOUS MONITOR 3694: STA BB01

MiniSonde 5 42510
Log File Name : 3694 cm 100708
Setup Date (M/D/YYYY) : 10/6/2008
Setup Time (HH:MM:SS) : 14:31:37
Starting Date (M/D/YYYY) : 10/7/2008
Starting Time (HH:MM:SS) : 08:00:00
Stopping Date (M/D/YYYY) : 10/9/2008
Stopping Time (HH:MM:SS) : 23:59:59
Interval (HH:MM:SS) : 00:15:00
Sensor warmup (HH:MM:SS) : 00:00:30
Circltr warmup (HH:MM:SS) : 00:00:30

Date M/D/YYYY	Time HH:MM:SS	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l	READING NUMBER
10/7/2008	8:00:00	26	7.57	0.17	354	67.4	5.47	0
10/7/2008	8:15:00	26.18	7.56	0.17	355	68.2	5.51	1
10/7/2008	8:30:00	26.36	7.56	0.18	355	69	5.55	2
10/7/2008	8:45:00	26.65	7.56	0.18	356	69.9	5.6	3
10/7/2008	9:00:00	26.97	7.56	0.18	357	70.8	5.64	4
10/7/2008	9:15:00	27.25	7.57	0.18	358	69.5	5.51	5
10/7/2008	9:30:00	27.32	7.55	0.18	362	70.6	5.58	6
10/7/2008	9:45:00	27.32	7.53	0.18	367	70	5.54	7
10/7/2008	10:00:00	27.4	7.54	0.18	366	72.8	5.75	8
10/7/2008	10:15:00	27.54	7.53	0.18	367	73.7	5.81	9
10/7/2008	10:30:00	27.78	7.54	0.18	369	74.4	5.84	10
10/7/2008	10:45:00	28.08	7.53	0.18	369	75	5.85	11
10/7/2008	11:00:00	27.92	7.53	0.18	369	75.2	5.89	12
10/7/2008	11:15:00	27.53	7.52	0.18	371	75.1	5.92	13

10/7/2008	11:30:00	27.15	7.52	0.18	372	74.8	5.94	14
10/7/2008	11:45:00	26.85	7.52	0.18	372	74.5	5.94	15
10/7/2008	12:00:00	26.69	7.52	0.18	372	74.5	5.96	16
10/7/2008	12:15:00	27.11	7.52	0.18	371	74.8	5.94	17
10/7/2008	12:30:00	27.45	7.52	0.18	372	75.5	5.96	18
10/7/2008	12:45:00	25.72	6.33	5.52	9770	3.2	0.25	19
10/7/2008	13:00:00	25.72	6.35	5.42	9600	1.3	0.1	20
10/7/2008	13:15:00	25.76	6.35	5.4	9563	1	0.08	21
10/7/2008	13:30:00	25.78	6.35	5.25	9322	1.2	0.09	22
10/7/2008	13:45:00	25.8	6.35	5.29	9389	0.7	0.06	23
10/7/2008	14:00:00	25.77	6.36	5.32	9436	0.8	0.06	24
10/7/2008	14:15:00	25.81	6.35	5.18	9196	1	0.08	25
10/7/2008	14:30:00	25.82	6.36	5.18	9192	0.8	0.06	26
10/7/2008	14:45:00	25.87	6.35	5.1	9054	0.7	0.06	27
10/7/2008	15:00:00	25.85	6.34	5.16	9155	0.5	0.04	28
10/7/2008	15:15:00	25.89	6.36	5.06	8992	0.8	0.06	29
10/7/2008	15:30:00	25.84	6.36	5.24	9300	0.6	0.05	30
10/7/2008	15:45:00	25.83	6.36	5.24	9291	0.5	0.04	31
10/7/2008	16:00:00	25.8	6.36	5.35	9490	0.6	0.05	32
10/7/2008	16:15:00	25.88	6.35	5.17	9174	0.6	0.05	33
10/7/2008	16:30:00	25.88	6.35	5.18	9193	0.5	0.04	34
10/7/2008	16:45:00	25.81	6.36	5.42	9599	0.5	0.04	35
10/7/2008	17:00:00	25.82	6.35	5.23	9288	0.4	0.03	36
10/7/2008	17:15:00	25.86	6.35	5.18	9198	0.4	0.03	37
10/7/2008	17:30:00	25.98	6.34	4.93	8776	0.5	0.04	38
10/7/2008	17:45:00	25.95	6.34	4.96	8832	0.4	0.03	39
10/7/2008	18:00:00	25.94	6.33	5.04	8953	0.4	0.03	40
10/7/2008	18:15:00	25.93	6.32	5.16	9170	0.3	0.03	41
10/7/2008	18:30:00	26.03	6.33	4.86	8651	0.3	0.03	42
10/7/2008	18:45:00	25.93	6.33	5.31	9407	0.9	0.07	43
10/7/2008	19:00:00	25.92	6.32	5.02	8921	0.3	0.03	44
10/7/2008	19:15:00	25.92	6.32	5.05	8978	0.3	0.03	45

10/7/2008	19:30:00	25.9	6.33	5.11	9070	0.3	0.03	46
10/7/2008	19:45:00	25.94	6.32	5	8888	0.3	0.03	47
10/7/2008	20:00:00	26.01	6.32	4.88	8681	0.3	0.03	48
10/7/2008	20:15:00	26.02	6.31	4.89	8703	0.3	0.03	49
10/7/2008	20:30:00	25.98	6.31	4.94	8798	0.4	0.03	50
10/7/2008	20:45:00	25.93	6.32	5	8899	0.3	0.02	51
10/7/2008	21:00:00	25.92	6.33	5.08	9023	0.3	0.03	52
10/7/2008	21:15:00	25.94	6.33	4.98	8866	0.3	0.03	53
10/7/2008	21:30:00	26.01	6.33	4.83	8607	0.3	0.03	54
10/7/2008	21:45:00	26.02	6.33	4.83	8611	0.3	0.02	55
10/7/2008	22:00:00	26.04	6.32	4.8	8548	0.3	0.02	56
10/7/2008	22:15:00	26.07	6.32	4.61	8233	0.4	0.03	57
10/7/2008	22:30:00	26.03	6.32	4.79	8529	0.3	0.03	58
10/7/2008	22:45:00	26.07	6.32	4.7	8385	0.3	0.03	59
10/7/2008	23:00:00	26.09	6.34	4.67	8339	0.3	0.03	60
10/7/2008	23:15:00	26.04	6.33	4.76	8490	0.3	0.02	61
10/7/2008	23:30:00	26.13	6.32	4.5	8046	0.3	0.02	62
10/7/2008	23:45:00	26.32	6.32	4.2	7533	0.8	0.07	63
10/8/2008	0:00:00	26.3	6.31	4.33	7754	0.3	0.02	64
10/8/2008	0:15:00	26.12	6.32	4.61	8227	0.3	0.02	65
10/8/2008	0:30:00	26.21	6.31	4.36	7802	0.3	0.02	66
10/8/2008	0:45:00	26.32	6.3	4.16	7455	0.4	0.03	67
10/8/2008	1:00:00	26.31	6.31	4.2	7533	0.3	0.02	68
10/8/2008	1:15:00	26.31	6.33	4.12	7388	0.3	0.02	69
10/8/2008	1:30:00	26.28	6.3	4.25	7620	0.3	0.02	70
10/8/2008	1:45:00	26.28	6.32	4.31	7713	0.3	0.03	71
10/8/2008	2:00:00	26.33	6.32	4.09	7345	0.3	0.02	72
10/8/2008	2:15:00	26.24	6.32	4.25	7614	0.3	0.02	73
10/8/2008	2:30:00	26.28	6.32	4.19	7520	0.3	0.03	74
10/8/2008	2:45:00	26.35	6.32	3.93	7065	0.3	0.03	75
10/8/2008	3:00:00	26.31	6.32	4.11	7371	0.3	0.02	76
10/8/2008	3:15:00	26.38	6.31	3.95	7091	0.3	0.02	77

10/8/2008	3:30:00	26.34	6.29	4.04	7255	4.3	0.34	78
10/8/2008	3:45:00	26.31	6.3	4.13	7401	0.3	0.03	79
10/8/2008	4:00:00	26.24	6.3	4.27	7642	0.3	0.02	80
10/8/2008	4:15:00	26.27	6.3	4.24	7596	0.3	0.02	81
10/8/2008	4:30:00	26.3	6.3	4.14	7426	0.3	0.02	82
10/8/2008	4:45:00	26.31	6.29	4.12	7389	0.3	0.02	83
10/8/2008	5:00:00	26.27	6.3	4.19	7519	0.3	0.02	84
10/8/2008	5:15:00	26.31	6.3	4.06	7284	0.3	0.02	85
10/8/2008	5:30:00	26.32	6.29	4.08	7327	0.3	0.02	86
10/8/2008	5:45:00	26.21	6.3	4.28	7666	0.3	0.02	87
10/8/2008	6:00:00	26.29	6.3	4.1	7355	0.3	0.02	88
10/8/2008	6:15:00	26.35	6.3	4.04	7255	0.3	0.02	89
10/8/2008	6:30:00	26.2	6.3	4.33	7749	0.3	0.02	90
10/8/2008	6:45:00	26.25	6.29	4.25	7621	0.3	0.02	91
10/8/2008	7:00:00	26.22	6.3	4.33	7752	0.3	0.02	92
10/8/2008	7:15:00	26.1	6.37	4.07	7315	4.9	0.39	93
10/8/2008	7:30:00	26.09	6.33	4.23	7572	6.3	0.5	94
10/8/2008	7:45:00	26.08	6.33	4.25	7615	14	1.1	95
10/8/2008	8:00:00	26.11	6.31	4.33	7746	6.2	0.49	96
10/8/2008	8:15:00	26.08	6.32	4.39	7856	7.1	0.56	97
10/8/2008	8:30:00	26.01	6.32	4.23	7585	2.1	0.17	98
10/8/2008	8:45:00	25.94	6.33	4.04	7247	14.4	1.14	99
10/8/2008	9:00:00	25.89	6.32	4.02	7213	11	0.88	100
10/8/2008	9:15:00	25.77	6.33	3.89	7002	12	0.96	101
10/8/2008	9:30:00	25.64	6.38	3.96	7114	30.3	2.42	102
10/8/2008	9:45:00	25.58	6.37	3.86	6945	32.9	2.63	103
10/8/2008	10:00:00	25.68	6.35	4.19	7505	20	1.59	104
10/8/2008	10:15:00	25.69	6.37	4.04	7248	28.2	2.25	105
10/8/2008	10:30:00	25.72	6.37	3.97	7127	27.6	2.2	106
10/8/2008	10:45:00	25.73	6.34	4.44	7937	14.7	1.17	107
10/8/2008	11:00:00	25.73	6.42	4.12	7397	36.3	2.89	108
10/8/2008	11:15:00	25.82	6.37	4.53	8096	22.1	1.75	109

10/8/2008	11:30:00	25.8	6.39	4.19	7517	29.4	2.33	110
10/8/2008	11:45:00	25.8	6.37	4	7193	22.3	1.78	111
10/8/2008	12:00:00	25.79	6.4	4.26	7635	30.4	2.42	112
10/8/2008	12:15:00	25.83	6.39	4.6	8206	21.7	1.72	113
10/8/2008	12:30:00	25.83	6.4	4.37	7812	32.3	2.57	114
10/8/2008	12:45:00	25.85	6.4	4.26	7632	27.8	2.21	115
10/8/2008	13:00:00	25.86	6.4	4.13	7407	32	2.54	116
10/8/2008	13:15:00	25.86	6.39	4.28	7667	25.4	2.02	117
10/8/2008	13:30:00	25.88	6.39	4.23	7580	28.4	2.26	118
10/8/2008	13:45:00	25.91	6.38	4.17	7483	26.9	2.14	119
10/8/2008	14:00:00	25.98	6.38	4	7189	32.5	2.58	120
10/8/2008	14:15:00	25.96	6.38	4.01	7199	32.1	2.55	121
10/8/2008	14:30:00	25.98	6.4	3.97	7140	36.6	2.9	122
10/8/2008	14:45:00	25.99	6.37	4.13	7414	27.4	2.17	123
10/8/2008	15:00:00	25.99	6.35	4.14	7425	20.8	1.65	124
10/8/2008	15:15:00	26	6.35	4.09	7333	22.4	1.77	125
10/8/2008	15:30:00	26.01	6.37	4.12	7398	23.3	1.85	126
10/8/2008	15:45:00	25.99	6.37	4.22	7570	24.8	1.96	127
10/8/2008	16:00:00	26.01	6.36	4.15	7451	22.5	1.78	128
10/8/2008	16:15:00	26.02	6.35	4.07	7298	23.6	1.87	129
10/8/2008	16:30:00	26.05	6.36	3.96	7118	27.9	2.21	130
10/8/2008	16:45:00	26.06	6.35	4.04	7255	22.1	1.75	131
10/8/2008	17:00:00	26.06	6.36	4.01	7197	26.6	2.11	132
10/8/2008	17:15:00	26.07	6.35	3.82	6878	29.6	2.34	133
10/8/2008	17:30:00	26.12	6.35	3.63	6548	35.8	2.84	134
10/8/2008	17:45:00	26.1	6.34	3.65	6574	33.6	2.67	135
10/8/2008	18:00:00	26.15	6.33	3.67	6621	31.5	2.49	136
10/8/2008	18:15:00	26.09	6.34	4	7189	25	1.98	137
10/8/2008	18:30:00	26.07	6.33	3.88	6971	25.4	2.01	138
10/8/2008	18:45:00	26.02	6.3	3.76	6765	24.9	1.98	139
10/8/2008	19:00:00	25.9	6.29	3.43	6199	32	2.55	140
10/8/2008	19:15:00	25.38	6.27	3.1	5629	29.2	2.35	141

10/8/2008	19:30:00	25.59	6.3	3.59	6473	28.8	2.31	142
10/8/2008	19:45:00	25.56	6.27	3.42	6184	23.5	1.89	143
10/8/2008	20:00:00	24.63	6.25	2.66	4852	27.4	2.25	144
10/8/2008	20:15:00	24.42	6.15	2.84	5162	18.9	1.56	145
10/8/2008	20:30:00	24.25	6.16	2.67	4867	18.1	1.49	146
10/8/2008	20:45:00	24.09	6.17	2.65	4839	19.2	1.59	147
10/8/2008	21:00:00	24.38	6.16	2.72	4953	19	1.56	148
10/8/2008	21:15:00	24.52	6.2	2.84	5167	19.1	1.57	149
10/8/2008	21:30:00	24.75	6.22	2.83	5160	22.3	1.82	150
10/8/2008	21:45:00	24.7	6.21	2.82	5135	22.7	1.85	151
10/8/2008	22:00:00	24.71	6.22	2.84	5162	22.9	1.87	152
10/8/2008	22:15:00	24.59	6.22	2.85	5185	23.4	1.91	153
10/8/2008	22:30:00	24.65	6.22	2.84	5173	22.6	1.85	154
10/8/2008	22:45:00	24.6	6.23	2.84	5170	22.8	1.86	155
10/8/2008	23:00:00	24.47	6.23	2.82	5141	22.8	1.87	156
10/8/2008	23:15:00	24.39	6.23	2.75	5012	22.4	1.84	157
10/8/2008	23:30:00	24.29	6.23	2.72	4960	21.3	1.76	158
10/8/2008	23:45:00	24.26	6.23	2.71	4944	21	1.73	159
10/9/2008	0:00:00	24.22	6.23	2.66	4858	19.8	1.64	160
10/9/2008	0:15:00	24.16	6.23	2.66	4847	19.5	1.61	161
10/9/2008	0:30:00	24.14	6.23	2.65	4843	19	1.57	162
10/9/2008	0:45:00	24.13	6.23	2.65	4831	19.1	1.58	163
10/9/2008	1:00:00	24.08	6.23	2.63	4805	18.9	1.56	164
10/9/2008	1:15:00	24	6.23	2.61	4764	17.9	1.49	165
10/9/2008	1:30:00	23.94	6.23	2.61	4770	17.7	1.47	166
10/9/2008	1:45:00	23.88	6.23	2.61	4761	17.6	1.46	167
10/9/2008	2:00:00	23.84	6.23	2.61	4762	18.1	1.51	168
10/9/2008	2:15:00	23.78	6.23	2.61	4760	17.7	1.47	169
10/9/2008	2:30:00	23.77	6.22	2.59	4727	17	1.42	170
10/9/2008	2:45:00	23.73	6.23	2.58	4719	16.9	1.41	171
10/9/2008	3:00:00	23.71	6.23	2.57	4699	16.7	1.39	172
10/9/2008	3:15:00	23.65	6.23	2.56	4684	17.1	1.43	173

10/9/2008	3:30:00	23.59	6.23	2.56	4672	17.6	1.47	174
10/9/2008	3:45:00	23.52	6.23	2.51	4585	17.3	1.45	175
10/9/2008	4:00:00	23.47	6.24	2.5	4561	16.8	1.41	176
10/9/2008	4:15:00	23.39	6.24	2.49	4552	16.9	1.42	177
10/9/2008	4:30:00	23.3	6.24	2.49	4545	17.1	1.43	178
10/9/2008	4:45:00	23.22	6.24	2.46	4496	16.6	1.39	179
10/9/2008	5:00:00	23.13	6.24	2.4	4398	15.7	1.33	180
10/9/2008	5:15:00	23.1	6.24	2.4	4387	15.5	1.31	181
10/9/2008	5:30:00	23.11	6.23	2.37	4337	14.6	1.23	182
10/9/2008	5:45:00	23.08	6.23	2.36	4326	13.7	1.16	183
10/9/2008	6:00:00	23.01	6.24	2.36	4315	14.2	1.2	184
10/9/2008	6:15:00	22.99	6.23	2.36	4320	13.9	1.17	185
10/9/2008	6:30:00	22.95	6.23	2.36	4322	14.2	1.21	186
10/9/2008	6:45:00	23	6.23	2.42	4433	15.6	1.32	187
10/9/2008	7:00:00	22.98	6.23	2.44	4465	15.8	1.34	188
10/9/2008	7:15:00	22.91	6.23	2.4	4400	17.9	1.51	189
10/9/2008	7:30:00	22.82	6.23	2.38	4358	15.2	1.29	190
10/9/2008	7:45:00	23.39	6.28	3.23	5856	29.9	2.5	191
10/9/2008	8:00:00	23.77	6.27	3.12	5657	26.9	2.24	192
10/9/2008	8:15:00	23.39	6.26	3	5441	25.1	2.1	193
10/9/2008	8:30:00	23.16	6.23	2.97	5394	20.9	1.75	194
10/9/2008	8:45:00	23.69	6.26	3.12	5655	23.4	1.95	195
10/9/2008	9:00:00	23.73	6.26	3.03	5504	21.9	1.82	196
10/9/2008	9:15:00	23.57	6.26	3	5441	21.1	1.76	197
10/9/2008	9:30:00	23.94	6.25	3.12	5663	19.1	1.58	198
10/9/2008	9:45:00	23.85	6.25	3.04	5523	18.9	1.57	199
10/9/2008	10:00:00	24.05	6.26	3.23	5860	18.4	1.52	200
10/9/2008	10:15:00	24.33	6.26	3.41	6162	18.1	1.49	201
10/9/2008	10:30:00	24.27	6.25	3.35	6064	16.7	1.37	202
10/9/2008	10:45:00	24.11	6.26	3.25	5893	19.8	1.64	203
10/9/2008	11:00:00	24.02	6.25	3.18	5766	18.2	1.5	204
10/9/2008	11:15:00	24.17	6.24	3.39	6127	14.2	1.17	205

10/9/2008	11:30:00	24.48	6.25	3.5	6315	11.7	0.95	206
10/9/2008	11:45:00	24.55	6.24	3.58	6465	11.4	0.93	207
10/9/2008	12:00:00	24.5	6.24	3.5	6313	8.3	0.68	208
10/9/2008	12:15:00	24.54	6.24	3.71	6682	5.2	0.42	209
10/9/2008	12:30:00	24.77	6.24	3.73	6727	5.2	0.42	210
10/9/2008	12:45:00	24.84	6.24	3.77	6782	2.2	0.18	211
10/9/2008	13:00:00	24.89	6.25	3.76	6764	4.3	0.35	212
10/9/2008	13:15:00	25	6.25	3.94	7084	2	0.16	213
10/9/2008	13:30:00	25.03	6.26	4.04	7255	1.1	0.09	214
10/9/2008	13:45:00	25.35	6.28	4.75	8474	1	0.08	215
10/9/2008	14:00:00	25.36	6.3	4.43	7928	2.1	0.17	216
10/9/2008	14:15:00	25.48	6.32	4.56	8145	3.7	0.3	217
10/9/2008	14:30:00	25.5	6.29	4.55	8123	2	0.16	218
10/9/2008	14:45:00	25.72	6.34	4.94	8788	2.1	0.17	219
10/9/2008	15:00:00	25.57	6.33	4.93	8778	1.3	0.11	220
10/9/2008	15:15:00	25.49	6.32	4.63	8267	2.2	0.18	221
10/9/2008	15:30:00	25.59	6.3	4.6	8218	3.1	0.25	222
10/9/2008	15:45:00	25.64	6.31	4.67	8338	2.6	0.2	223
10/9/2008	16:00:00	25.77	6.33	4.84	8619	3.7	0.29	224
10/9/2008	16:15:00	25.61	6.33	4.67	8333	4.2	0.34	225
10/9/2008	16:30:00	25.74	6.34	4.9	8726	3.6	0.28	226
10/9/2008	16:45:00	25.64	6.33	4.9	8716	1.6	0.12	227
10/9/2008	17:00:00	25.49	6.32	4.57	8163	2	0.16	228
10/9/2008	17:15:00	25.57	6.33	4.94	8794	0.9	0.07	229
10/9/2008	17:30:00	25.28	6.3	4.34	7766	4.1	0.33	230
10/9/2008	17:45:00	25.29	6.29	4.14	7418	7.4	0.59	231
10/9/2008	18:00:00	25.29	6.3	4.58	8181	2.3	0.19	232
10/9/2008	18:15:00	25.23	6.29	4.06	7288	6.7	0.54	233
10/9/2008	18:30:00	25.33	6.29	4.32	7731	4.6	0.37	234
10/9/2008	18:45:00	25.22	6.28	4.11	7375	5.1	0.41	235
10/9/2008	19:00:00	25.27	6.28	4.06	7285	6.3	0.51	236
10/9/2008	19:15:00	25.22	6.29	4.17	7479	3.5	0.28	237

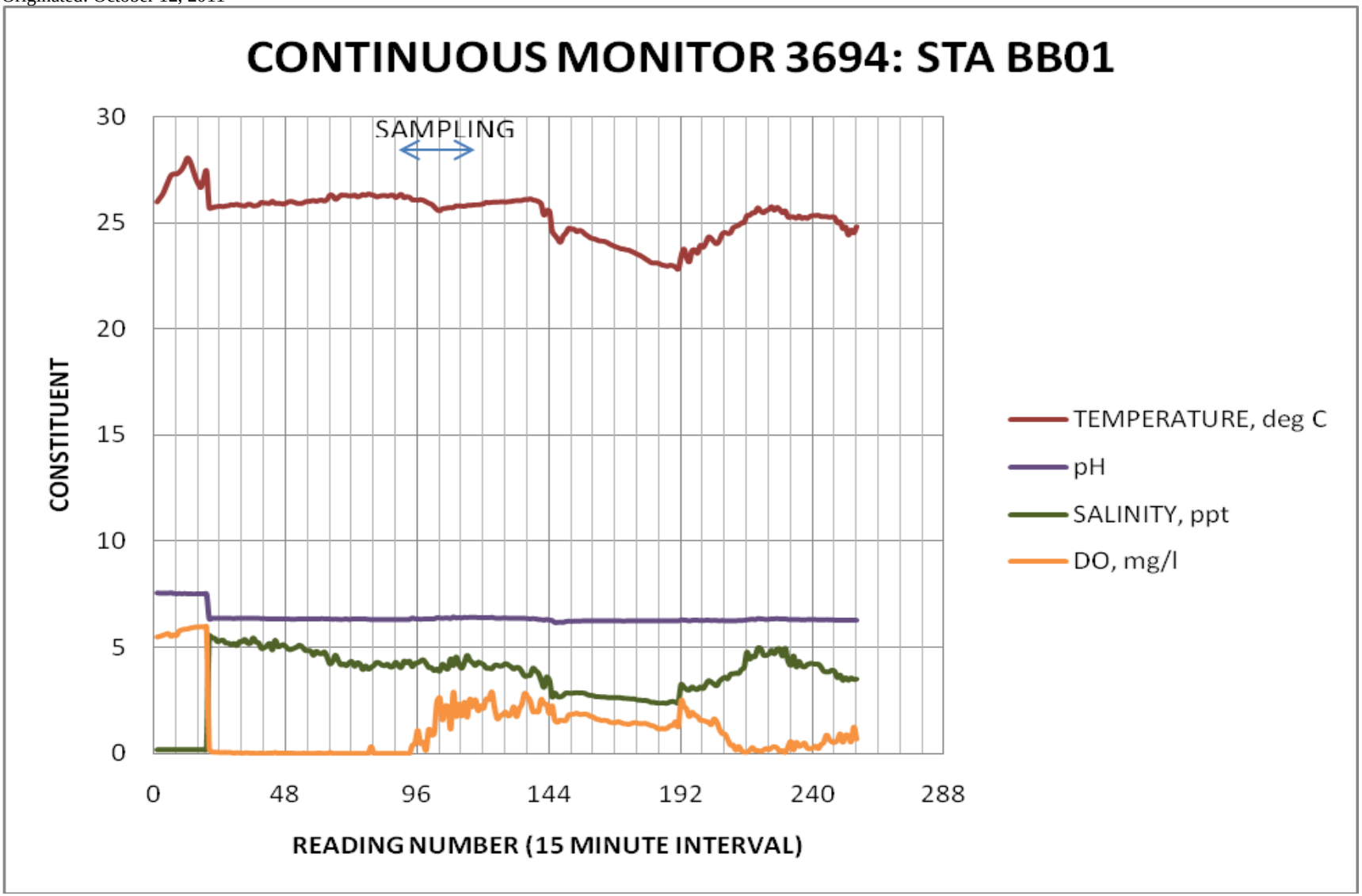
10/9/2008	19:30:00	25.31	6.29	4.22	7566	3	0.24	238
10/9/2008	19:45:00	25.36	6.29	4.21	7553	3.5	0.28	239
10/9/2008	20:00:00	25.35	6.29	4.19	7512	4.6	0.37	240
10/9/2008	20:15:00	25.37	6.28	4.19	7519	3.1	0.25	241
10/9/2008	20:30:00	25.31	6.28	4.06	7295	5.5	0.44	242
10/9/2008	20:45:00	25.3	6.28	3.86	6950	6.7	0.54	243
10/9/2008	21:00:00	25.31	6.29	3.83	6892	11.1	0.89	244
10/9/2008	21:15:00	25.27	6.28	3.83	6885	8.6	0.69	245
10/9/2008	21:30:00	25.29	6.28	3.91	7033	7	0.56	246
10/9/2008	21:45:00	25.26	6.27	3.85	6925	6.7	0.54	247
10/9/2008	22:00:00	25.01	6.27	3.56	6426	7.9	0.64	248
10/9/2008	22:15:00	25.05	6.27	3.68	6641	11.6	0.94	249
10/9/2008	22:30:00	24.73	6.26	3.43	6196	6.7	0.55	250
10/9/2008	22:45:00	24.81	6.27	3.55	6405	10.8	0.88	251
10/9/2008	23:00:00	24.43	6.26	3.44	6209	10.2	0.84	252
10/9/2008	23:15:00	24.67	6.26	3.54	6393	7	0.57	253
10/9/2008	23:30:00	24.53	6.26	3.47	6270	15.5	1.26	254
10/9/2008	23:45:00	24.83	6.26	3.49	6299	8.6	0.7	255

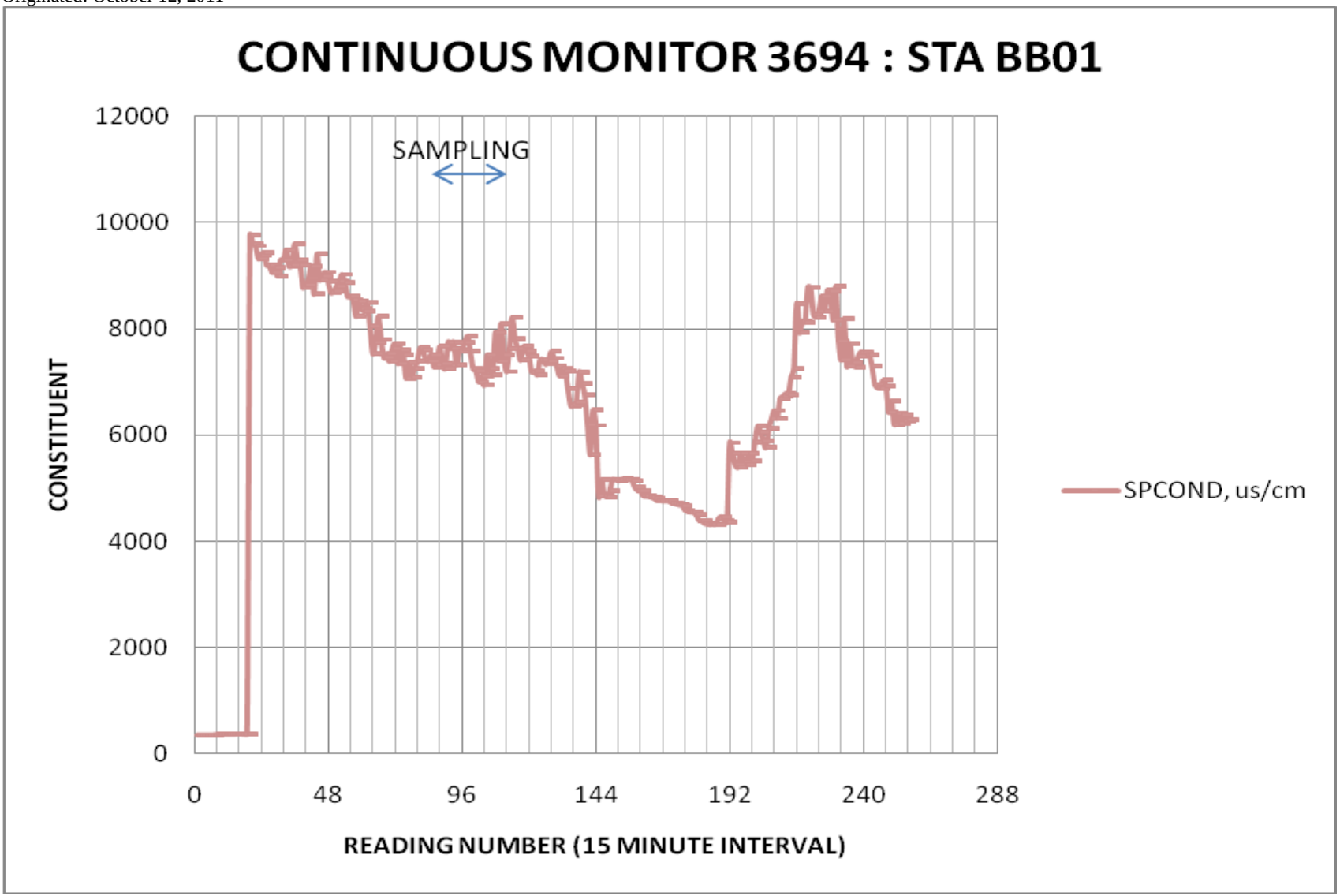
	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l
24 HOUR AVG	25.30219	6.320208	3.809792	6841.818	14.03646	1.137552
24 HOUR MIN	22.82	6.15	0.18	371	0.3	0.02
24 HOUR MAX	27.45	7.52	5.52	9770	75.5	5.96

24 HOURS WAS FROM NOON TO NOON OVER 2 DAYS SINCE WE HAD 2 FULL DAYS OF DATA.

SAMPLING PERIOD AVG	25.83	6.363913	4.18913	7508.783	21.74783	1.73
SAMPLING PERIOD MIN	25.58	6.31	3.86	6945	2.1	0.17
SAMPLING PERIOD MAX	26.11	6.42	4.6	8206	36.3	2.89

SURVEY SAMPLING PERIOD WAS FROM 7:45 AM TO 1:15 PM ON 10/08/2009


CONTINUOUS MONITOR 3694: STA BB01
SAMPLING
CONSTITUENT
30
25
20
15
10
5
0
0
48
96
144
192
240
288
READING NUMBER (15 MINUTE INTERVAL)
TEMPERATURE, deg C
pH
SALINITY, ppt
DO, mg/l


CONTINUOUS MONITOR 3694 : STA BB01
SAMPLING
12000
10000
8000
6000
4000
2000
0
CONSTITUENT
0
48
96
144
192
240
288
READING NUMBER (15 MINUTE INTERVAL)
SPCOND, us/cm

CONTINUOUS MONITOR 3695 : STA BL07

MiniSonde 5 43551
Log File Name : 3695 cm 100708
Setup Date (M/D/YYYY) : 10/6/2008
Setup Time (HH:MM:SS) : 14:29:52
Starting Date (M/D/YYYY) : 10/7/2008
Starting Time (HH:MM:SS) : 08:00:00
Stopping Date (M/D/YYYY) : 10/9/2008
Stopping Time (HH:MM:SS) : 23:59:59
Interval (HH:MM:SS) : 00:15:00
Sensor warmup (HH:MM:SS) : 00:00:30
Circltr warmup (HH:MM:SS) : 00:00:30

Date M/D/YYYY	Time HH:MM:SS	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l	READING NUMBER
10/7/2008	8:00:00	26.1	7.86	0.19	384	37.1	3	0
10/7/2008	8:15:00	26.28	7.89	0.19	386	4.4	0.35	1
10/7/2008	8:30:00	26.48	7.9	0.19	387	74.8	6.01	2
10/7/2008	8:45:00	26.8	7.87	0.19	391	3.1	0.25	3
10/7/2008	9:00:00	27.19	7.9	0.19	389	48.5	3.84	4
10/7/2008	9:15:00	27.37	8	0.21	427	4.9	0.39	5
10/7/2008	9:30:00	27.42	8.01	0.2	395	85.5	6.75	6
10/7/2008	9:45:00	27.46	7.99	0.21	415	76.6	6.05	7
10/7/2008	10:00:00	27.58	8.07	0.19	381	91.6	7.22	8
10/7/2008	10:15:00	27.72	8.02	0.23	461	80.9	6.36	9
10/7/2008	10:30:00	27.96	8.04	0.21	411	87.4	6.84	10
10/7/2008	10:45:00	28.24	7.99	0.29	571	85.5	6.66	11
10/7/2008	11:00:00	27.61	8	0.31	614	5	0.4	12
10/7/2008	11:15:00	27.07	7.99	0.36	701	85.4	6.79	13

10/7/2008	11:30:00	26.67	7.98	0.29	565	85.7	6.86	14
10/7/2008	11:45:00	26.4	7.97	0.27	528	85.2	6.85	15
10/7/2008	12:00:00	26.33	7.97	0.32	627	96.6	7.78	16
10/7/2008	12:15:00	26.88	7.93	0.34	653	85.7	6.83	17
10/7/2008	12:30:00	27.34	7.91	0.31	600	84.5	6.68	18
10/7/2008	12:45:00	26.21	8.25	-0.02	0	102.4	8.28	19
10/7/2008	13:00:00	26.14	6.88	-0.02	0	99.3	8.03	20
10/7/2008	13:15:00	26.56	6.62	4	7191	29.5	2.32	21
10/7/2008	13:30:00	26.64	6.65	4.19	7503	43.1	3.38	22
10/7/2008	13:45:00	26.29	6.57	5.01	8914	8.6	0.68	23
10/7/2008	14:00:00	26.59	6.62	4.38	7830	27.2	2.13	24
10/7/2008	14:15:00	26.38	6.59	4.64	8287	28.7	2.25	25
10/7/2008	14:30:00	26.45	6.6	4.64	8275	15.9	1.25	26
10/7/2008	14:45:00	26.6	6.62	4.38	7842	40.8	3.19	27
10/7/2008	15:00:00	26.68	6.63	4.33	7759	38.1	2.98	28
10/7/2008	15:15:00	26.88	6.6	4.14	7430	17.7	1.38	29
10/7/2008	15:30:00	26.52	6.59	4.62	8250	24.2	1.89	30
10/7/2008	15:45:00	26.7	6.58	4.44	7932	17.2	1.34	31
10/7/2008	16:00:00	26.72	6.59	4.42	7899	20.6	1.61	32
10/7/2008	16:15:00	26.77	6.6	4.38	7839	27.4	2.14	33
10/7/2008	16:30:00	26.85	6.65	4.39	7852	48.9	3.81	34
10/7/2008	16:45:00	26.93	6.69	4.14	7420	61.1	4.77	35
10/7/2008	17:00:00	26.93	6.68	4.27	7644	51.6	4.02	36
10/7/2008	17:15:00	27.01	6.73	4.09	7343	66.5	5.18	37
10/7/2008	17:30:00	26.82	6.66	4.34	7770	50	3.9	38
10/7/2008	17:45:00	26.72	6.65	4.45	7958	49.8	3.89	39
10/7/2008	18:00:00	26.67	6.64	4.46	7981	41	3.2	40
10/7/2008	18:15:00	26.7	6.64	4.39	7856	57.5	4.49	41
10/7/2008	18:30:00	26.78	6.69	4.12	7392	61.3	4.79	42
10/7/2008	18:45:00	26.82	6.7	4.05	7277	64.2	5.01	43
10/7/2008	19:00:00	26.82	6.65	4.18	7499	50.3	3.93	44
10/7/2008	19:15:00	26.79	6.62	4	7185	49.8	3.9	45

10/7/2008	19:30:00	26.78	6.61	4.02	7213	47.7	3.73	46
10/7/2008	19:45:00	26.7	6.6	4.11	7379	41.8	3.27	47
10/7/2008	20:00:00	26.63	6.6	4.12	7387	35.5	2.78	48
10/7/2008	20:15:00	26.58	6.58	3.98	7154	28.5	2.24	49
10/7/2008	20:30:00	26.5	6.66	3.81	6860	53.6	4.22	50
10/7/2008	20:45:00	26.49	6.68	3.78	6815	58.1	4.57	51
10/7/2008	21:00:00	26.42	6.64	3.91	7038	44.4	3.49	52
10/7/2008	21:15:00	26.41	6.64	3.79	6826	51.5	4.06	53
10/7/2008	21:30:00	26.32	6.65	3.83	6901	52.8	4.17	54
10/7/2008	21:45:00	26.26	6.65	3.8	6840	57.8	4.57	55
10/7/2008	22:00:00	26.19	6.64	3.77	6787	62.4	4.94	56
10/7/2008	22:15:00	26.16	6.63	3.77	6784	61.7	4.89	57
10/7/2008	22:30:00	26.14	6.65	3.81	6860	48.2	3.82	58
10/7/2008	22:45:00	26.16	6.65	3.84	6910	88.6	7.01	59
10/7/2008	23:00:00	26.17	6.65	3.91	7023	39.9	3.16	60
10/7/2008	23:15:00	25.99	6.62	3.93	7062	123	9.76	61
10/7/2008	23:30:00	26.01	6.61	3.96	7110	51.6	4.09	62
10/7/2008	23:45:00	25.96	6.61	4	7192	41	3.26	63
10/8/2008	0:00:00	25.9	6.67	3.91	7032	58.3	4.63	64
10/8/2008	0:15:00	25.89	6.66	3.9	7017	49.8	3.96	65
10/8/2008	0:30:00	25.9	6.67	3.89	6996	60.3	4.79	66
10/8/2008	0:45:00	25.9	6.64	3.99	7172	54.6	4.34	67
10/8/2008	1:00:00	25.88	6.63	3.97	7126	49.1	3.91	68
10/8/2008	1:15:00	25.93	6.65	3.89	6999	50.8	4.04	69
10/8/2008	1:30:00	25.9	6.66	3.87	6959	58.5	4.65	70
10/8/2008	1:45:00	25.91	6.66	3.86	6939	57.2	4.55	71
10/8/2008	2:00:00	25.91	6.66	3.82	6884	60.8	4.83	72
10/8/2008	2:15:00	25.9	6.67	3.8	6838	55	4.38	73
10/8/2008	2:30:00	25.91	6.65	3.81	6857	46	3.66	74
10/8/2008	2:45:00	25.9	6.65	3.83	6891	40.8	3.24	75
10/8/2008	3:00:00	25.91	6.66	3.78	6801	54.2	4.31	76
10/8/2008	3:15:00	25.9	6.68	3.74	6730	60.2	4.79	77

10/8/2008	3:30:00	25.87	6.7	3.7	6673	4.2	0.33	78
10/8/2008	3:45:00	25.85	6.66	3.71	6683	55.4	4.41	79
10/8/2008	4:00:00	25.78	6.62	3.95	7106	46.6	3.71	80
10/8/2008	4:15:00	25.71	6.63	3.94	7090	48.3	3.85	81
10/8/2008	4:30:00	25.81	6.62	3.86	6940	47.5	3.78	82
10/8/2008	4:45:00	25.8	6.64	3.81	6855	52.8	4.21	83
10/8/2008	5:00:00	25.72	6.64	3.81	6850	51.5	4.11	84
10/8/2008	5:15:00	25.77	6.63	3.81	6851	49.7	3.96	85
10/8/2008	5:30:00	25.77	6.63	3.83	6894	46.2	3.68	86
10/8/2008	5:45:00	25.75	6.63	3.74	6729	50	3.99	87
10/8/2008	6:00:00	25.73	6.63	3.65	6586	48.8	3.9	88
10/8/2008	6:15:00	25.75	6.61	4.07	7303	41.9	3.34	89
10/8/2008	6:30:00	25.79	6.63	4.11	7382	44.6	3.55	90
10/8/2008	6:45:00	25.79	6.62	4.14	7421	43.4	3.45	91
10/8/2008	7:00:00	25.76	6.64	4.02	7220	42.4	3.38	92
10/8/2008	7:15:00	25.75	6.65	3.84	6905	55.6	4.43	93
10/8/2008	7:30:00	25.77	6.65	4.26	7638	39.2	3.12	94
10/8/2008	7:45:00	25.76	6.66	4.3	7708	46.5	3.7	95
10/8/2008	8:00:00	25.76	6.63	4.13	7415	42.2	3.36	96
10/8/2008	8:15:00	25.76	6.66	4.32	7733	45.9	3.65	97
10/8/2008	8:30:00	25.79	6.65	4.21	7548	54	4.29	98
10/8/2008	8:45:00	25.78	6.63	4.14	7430	43.8	3.48	99
10/8/2008	9:00:00	25.82	6.63	4.19	7515	34.9	2.78	100
10/8/2008	9:15:00	25.83	6.63	4.2	7537	45.3	3.6	101
10/8/2008	9:30:00	25.82	6.64	4.08	7330	49	3.9	102
10/8/2008	9:45:00	25.8	6.64	4.12	7397	46.6	3.71	103
10/8/2008	10:00:00	25.81	6.64	4.15	7446	43.1	3.43	104
10/8/2008	10:15:00	25.75	6.64	4.03	7240	47.5	3.79	105
10/8/2008	10:30:00	25.78	6.65	4.12	7396	49.8	3.96	106
10/8/2008	10:45:00	25.74	6.65	4.01	7208	57.7	4.6	107
10/8/2008	11:00:00	25.84	6.64	4.04	7246	51.3	4.08	108
10/8/2008	11:15:00	25.88	6.66	4.04	7261	54.7	4.34	109

10/8/2008	11:30:00	25.84	6.71	3.88	6971	83.7	6.67	110
10/8/2008	11:45:00	25.87	6.65	4.15	7443	40.6	3.22	111
10/8/2008	12:00:00	25.8	6.68	3.91	7023	60.4	4.81	112
10/8/2008	12:15:00	25.87	6.68	3.9	7008	61.7	4.91	113
10/8/2008	12:30:00	25.9	6.69	3.92	7043	57.2	4.55	114
10/8/2008	12:45:00	26.02	6.67	3.94	7083	57.8	4.58	115
10/8/2008	13:00:00	26.11	6.65	4.09	7334	53.4	4.23	116
10/8/2008	13:15:00	26.31	6.67	3.92	7051	37.5	2.96	117
10/8/2008	13:30:00	26.39	6.68	3.83	6886	60.1	4.74	118
10/8/2008	13:45:00	26.63	6.66	3.74	6732	66.4	5.21	119
10/8/2008	14:00:00	26.79	6.65	3.67	6609	68.3	5.35	120
10/8/2008	14:15:00	26.48	6.63	4.01	7205	53.3	4.19	121
10/8/2008	14:30:00	26.61	6.62	3.74	6742	75.9	5.97	122
10/8/2008	14:45:00	26.47	6.63	3.93	7065	60	4.72	123
10/8/2008	15:00:00	26.4	6.66	3.92	7051	60	4.73	124
10/8/2008	15:15:00	26.42	6.66	3.93	7061	72.3	5.7	125
10/8/2008	15:30:00	26.4	6.63	3.93	7065	57.5	4.53	126
10/8/2008	15:45:00	26.5	6.64	4.06	7292	58.5	4.6	127
10/8/2008	16:00:00	26.68	6.64	3.98	7153	59.4	4.65	128
10/8/2008	16:15:00	26.64	6.62	4.12	7396	54.9	4.3	129
10/8/2008	16:30:00	26.64	6.61	4.03	7232	52.3	4.1	130
10/8/2008	16:45:00	26.61	6.58	4.08	7318	47.8	3.75	131
10/8/2008	17:00:00	26.71	6.6	3.94	7075	57.7	4.52	132
10/8/2008	17:15:00	26.65	6.6	4.01	7208	51.9	4.07	133
10/8/2008	17:30:00	26.54	6.61	4.14	7434	52.7	4.14	134
10/8/2008	17:45:00	26.53	6.59	4.01	7200	54.3	4.27	135
10/8/2008	18:00:00	26.51	6.59	3.98	7145	45.6	3.58	136
10/8/2008	18:15:00	26.53	6.6	3.98	7157	45.6	3.58	137
10/8/2008	18:30:00	26.46	6.59	4.16	7456	41.8	3.29	138
10/8/2008	18:45:00	26.16	6.57	3.55	6410	61.7	4.9	139
10/8/2008	19:00:00	26.09	6.56	3.61	6509	43.7	3.46	140
10/8/2008	19:15:00	26.16	6.58	3.44	6220	61.8	4.91	141

10/8/2008	19:30:00	26.1	6.56	3.11	5642	62.6	4.98	142
10/8/2008	19:45:00	26.04	6.53	2.98	5419	64.5	5.14	143
10/8/2008	20:00:00	25.94	6.51	2.78	5065	60.2	4.81	144
10/8/2008	20:15:00	25.81	6.48	2.66	4844	61.8	4.96	145
10/8/2008	20:30:00	25.67	6.47	2.62	4781	61.3	4.93	146
10/8/2008	20:45:00	25.55	6.47	2.56	4677	60.6	4.89	147
10/8/2008	21:00:00	25.52	6.46	2.51	4595	58.5	4.72	148
10/8/2008	21:15:00	25.47	6.45	2.5	4561	44.4	3.58	149
10/8/2008	21:30:00	25.38	6.44	2.47	4510	56.9	4.61	150
10/8/2008	21:45:00	25.29	6.43	2.4	4388	52.9	4.29	151
10/8/2008	22:00:00	25.2	6.42	2.38	4364	55.6	4.52	152
10/8/2008	22:15:00	25.06	6.41	2.33	4265	55.4	4.51	153
10/8/2008	22:30:00	24.96	6.41	2.31	4228	54.4	4.44	154
10/8/2008	22:45:00	24.92	6.41	2.3	4214	53.6	4.38	155
10/8/2008	23:00:00	24.86	6.41	2.31	4229	52.9	4.33	156
10/8/2008	23:15:00	24.8	6.4	2.29	4195	52.5	4.3	157
10/8/2008	23:30:00	24.64	6.4	2.26	4151	52.1	4.28	158
10/8/2008	23:45:00	24.61	6.39	2.22	4070	50.7	4.17	159
10/9/2008	0:00:00	24.47	6.38	2.21	4057	50.7	4.18	160
10/9/2008	0:15:00	24.59	6.39	2.41	4407	46.3	3.8	161
10/9/2008	0:30:00	24.69	6.38	2.32	4245	45.4	3.73	162
10/9/2008	0:45:00	24.41	6.38	2.22	4068	47.6	3.93	163
10/9/2008	1:00:00	24.32	6.36	2.15	3954	47.3	3.91	164
10/9/2008	1:15:00	24.26	6.35	2.1	3865	47.1	3.9	165
10/9/2008	1:30:00	24.2	6.35	2.07	3812	46.8	3.88	166
10/9/2008	1:45:00	24.07	6.34	2.03	3742	46.7	3.88	167
10/9/2008	2:00:00	24.04	6.33	1.99	3655	46.5	3.87	168
10/9/2008	2:15:00	23.98	6.33	1.97	3629	46.2	3.85	169
10/9/2008	2:30:00	23.99	6.33	2.01	3697	44.5	3.7	170
10/9/2008	2:45:00	23.84	6.33	1.95	3584	45.5	3.8	171
10/9/2008	3:00:00	23.81	6.33	2.03	3732	42.5	3.55	172
10/9/2008	3:15:00	23.62	6.33	1.92	3540	44.1	3.7	173

10/9/2008	3:30:00	23.52	6.32	1.89	3484	44.4	3.73	174
10/9/2008	3:45:00	23.64	6.32	1.98	3644	41	3.44	175
10/9/2008	4:00:00	23.52	6.32	1.96	3615	42.3	3.55	176
10/9/2008	4:15:00	23.45	6.32	1.94	3575	42.5	3.57	177
10/9/2008	4:30:00	23.36	6.32	1.97	3630	40.4	3.41	178
10/9/2008	4:45:00	23.57	6.34	2.14	3936	38.6	3.23	179
10/9/2008	5:00:00	23.32	6.33	1.98	3637	40	3.38	180
10/9/2008	5:15:00	23.22	6.34	1.93	3552	31.8	2.68	181
10/9/2008	5:30:00	23.12	6.37	1.83	3380	36.1	3.05	182
10/9/2008	5:45:00	23.06	6.34	1.76	3256	39.3	3.33	183
10/9/2008	6:00:00	22.99	6.32	1.72	3174	43.3	3.68	184
10/9/2008	6:15:00	22.9	6.34	1.76	3243	40.6	3.46	185
10/9/2008	6:30:00	22.84	6.34	1.73	3198	35.1	2.99	186
10/9/2008	6:45:00	22.9	6.34	1.76	3249	29.6	2.52	187
10/9/2008	7:00:00	23.08	6.32	2.45	4485	28.1	2.37	188
10/9/2008	7:15:00	23.4	6.35	2.49	4549	32.5	2.73	189
10/9/2008	7:30:00	22.89	6.35	2.22	4065	32	2.71	190
10/9/2008	7:45:00	22.77	6.33	1.76	3256	41.6	3.55	191
10/9/2008	8:00:00	22.64	6.28	1.7	3139	30.7	2.63	192
10/9/2008	8:15:00	23.25	6.36	2.55	4656	26.9	2.26	193
10/9/2008	8:30:00	23.29	6.36	2.18	3996	26.4	2.23	194
10/9/2008	8:45:00	23.58	6.35	2.37	4334	32.3	2.71	195
10/9/2008	9:00:00	24.12	6.37	2.88	5231	26.1	2.16	196
10/9/2008	9:15:00	24.33	6.38	3.04	5515	25.6	2.1	197
10/9/2008	9:30:00	24.42	6.4	3.08	5583	26.5	2.17	198
10/9/2008	9:45:00	24.64	6.41	3.26	5906	23.3	1.9	199
10/9/2008	10:00:00	24.89	6.43	3.52	6353	24.8	2.01	200
10/9/2008	10:15:00	24.96	6.43	3.46	6252	25.9	2.1	201
10/9/2008	10:30:00	25.08	6.45	3.72	6706	26.2	2.12	202
10/9/2008	10:45:00	24.87	6.44	3.54	6388	28.6	2.32	203
10/9/2008	11:00:00	24.75	6.44	3.42	6188	33.1	2.7	204
10/9/2008	11:15:00	24.82	6.44	3.34	6047	36.9	3	205

10/9/2008	11:30:00	24.98	6.45	3.51	6337	33.6	2.72	206
10/9/2008	11:45:00	25.08	6.45	3.61	6513	32.9	2.66	207
10/9/2008	12:00:00	25.14	6.46	3.68	6632	30.9	2.5	208
10/9/2008	12:15:00	25.32	6.46	3.82	6871	28.4	2.28	209
10/9/2008	12:30:00	25.36	6.47	3.77	6786	29.4	2.36	210
10/9/2008	12:45:00	25.48	6.49	3.96	7112	30.5	2.45	211
10/9/2008	13:00:00	25.58	6.49	3.96	7113	30.8	2.46	212
10/9/2008	13:15:00	25.62	6.5	3.95	7091	31.3	2.5	213
10/9/2008	13:30:00	25.44	6.48	3.76	6779	35	2.81	214
10/9/2008	13:45:00	25.45	6.49	3.8	6840	35.2	2.82	215
10/9/2008	14:00:00	25.48	6.5	3.85	6924	34.3	2.75	216
10/9/2008	14:15:00	25.57	6.48	3.79	6832	35.8	2.87	217
10/9/2008	14:30:00	25.63	6.49	3.88	6973	31.5	2.52	218
10/9/2008	14:45:00	25.6	6.48	3.72	6699	31.2	2.5	219
10/9/2008	15:00:00	25.75	6.48	3.86	6947	28.3	2.26	220
10/9/2008	15:15:00	25.69	6.49	3.96	7112	27.1	2.16	221
10/9/2008	15:30:00	25.81	6.51	4.26	7635	24.8	1.97	222
10/9/2008	15:45:00	25.84	6.52	4.22	7556	26.9	2.14	223
10/9/2008	16:00:00	25.87	6.5	3.96	7115	27.7	2.2	224
10/9/2008	16:15:00	25.87	6.52	4.3	7708	24.7	1.96	225
10/9/2008	16:30:00	25.89	6.52	4.22	7555	27.2	2.16	226
10/9/2008	16:45:00	25.88	6.52	4.25	7620	27.3	2.17	227
10/9/2008	17:00:00	25.9	6.51	4.08	7324	28.5	2.27	228
10/9/2008	17:15:00	25.93	6.51	4.19	7518	31.1	2.47	229
10/9/2008	17:30:00	25.88	6.51	4.19	7510	28.5	2.26	230
10/9/2008	17:45:00	25.85	6.51	4.1	7353	29.5	2.34	231
10/9/2008	18:00:00	25.8	6.51	3.96	7118	22.1	1.76	232
10/9/2008	18:15:00	25.88	6.51	3.95	7108	30.8	2.45	233
10/9/2008	18:30:00	25.87	6.5	3.99	7177	22.5	1.79	234
10/9/2008	18:45:00	25.88	6.51	3.96	7118	31.4	2.5	235
10/9/2008	19:00:00	25.85	6.5	3.9	7007	31.5	2.51	236
10/9/2008	19:15:00	25.58	6.49	3.34	6052	37.7	3.02	237

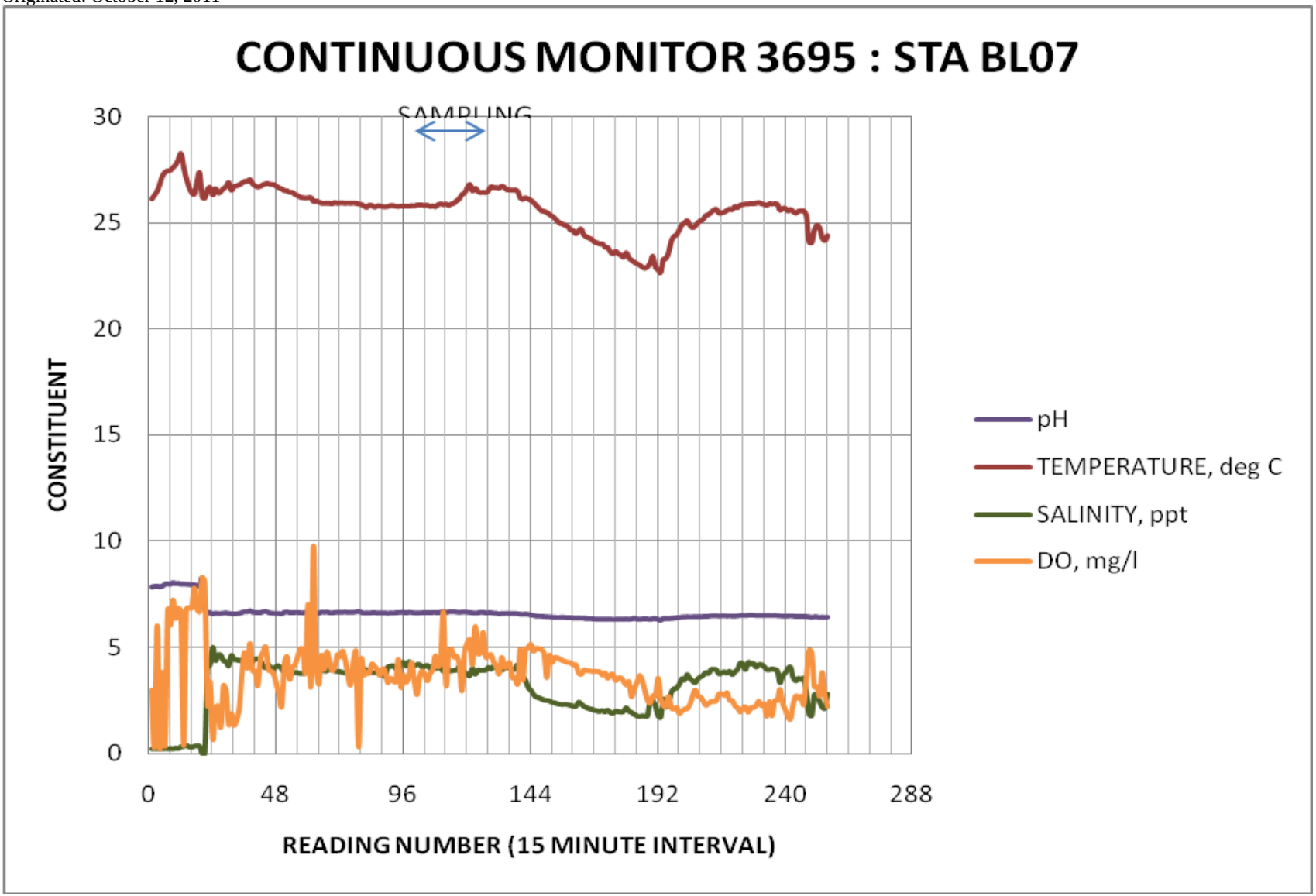
10/9/2008	19:30:00	25.66	6.48	3.67	6616	29.7	2.38	238
10/9/2008	19:45:00	25.66	6.48	3.79	6818	26	2.08	239
10/9/2008	20:00:00	25.54	6.48	4.01	7203	21.7	1.73	240
10/9/2008	20:15:00	25.61	6.49	4.07	7302	20.6	1.64	241
10/9/2008	20:30:00	25.51	6.48	3.58	6452	28.9	2.32	242
10/9/2008	20:45:00	25.44	6.46	3.42	6181	33.8	2.72	243
10/9/2008	21:00:00	25.53	6.46	3.54	6396	32.5	2.61	244
10/9/2008	21:15:00	25.54	6.46	3.48	6293	33.7	2.7	245
10/9/2008	21:30:00	25.53	6.46	3.54	6385	29	2.33	246
10/9/2008	21:45:00	25.32	6.46	2.85	5181	45.3	3.66	247
10/9/2008	22:00:00	24.07	6.44	1.84	3388	58.5	4.87	248
10/9/2008	22:15:00	24.05	6.42	1.78	3278	56.8	4.73	249
10/9/2008	22:30:00	24.63	6.44	2.77	5042	38.3	3.14	250
10/9/2008	22:45:00	24.87	6.44	2.72	4958	38.9	3.17	251
10/9/2008	23:00:00	24.73	6.41	2.42	4424	33.2	2.72	252
10/9/2008	23:15:00	24.27	6.43	2.17	3981	46.2	3.82	253
10/9/2008	23:30:00	24.14	6.41	2.12	3891	32.7	2.71	254
10/9/2008	23:45:00	24.37	6.43	2.8	5104	26.9	2.22	255

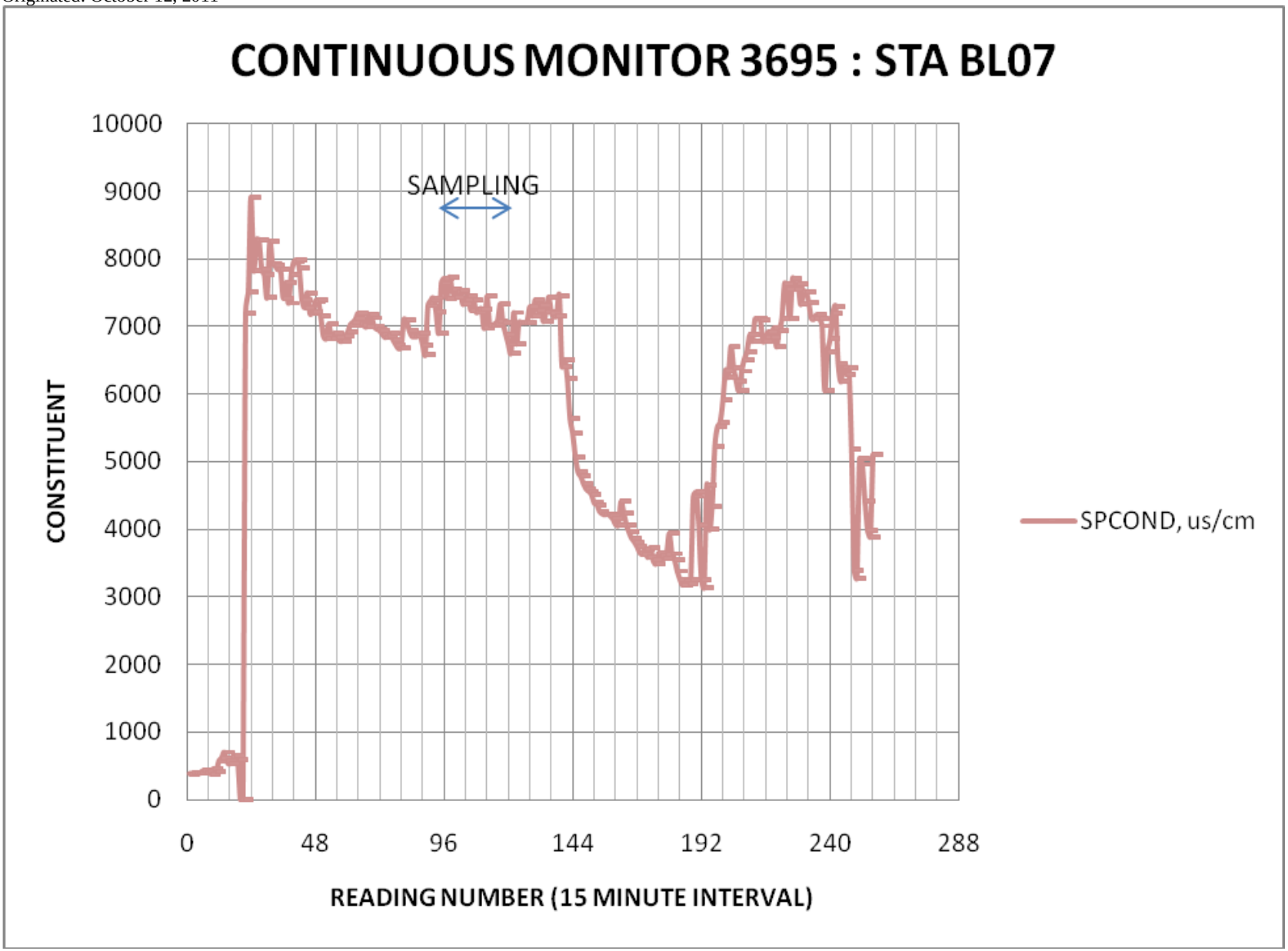
	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l
24 HOUR AVG	25.55833	6.580573	3.365781	6071.667	48.41927	3.879635
24 HOUR MIN	22.64	6.28	-0.02	0	4.2	0.33
24 HOUR MAX	27.34	8.25	5.01	8914	123	9.76

24 HOURS WAS FROM NOON TO NOON OVER 2 DAYS SINCE WE HAD 2 FULL DAYS OF DATA.

SAMPLING PERIOD AVG	25.85391	6.654348	4.077826	7320.261	50.63478	4.026087
SAMPLING PERIOD MIN	25.74	6.63	3.88	6971	34.9	2.78
SAMPLING PERIOD MAX	26.31	6.71	4.32	7733	83.7	6.67

SURVEY SAMPLING PERIOD WAS FROM 7:45 AM TO 1:15 PM ON 10/08/2009


CONTINUOUS MONITOR 3695 : STA BL07
SAMPLING
30
25
20
15
10
5
0
CONSTITUENT
0
48
96
144
192
240
288
READING NUMBER (15 MINUTE INTERVAL)
pH
TEMPERATURE, deg C
SALINITY, ppt
DO, mg/l


CONTINUOUS MONITOR 3695 : STA BL07
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
CONSTITUENT
SAMPLING
0
48
96
144
192
240
288
READING NUMBER (15 MINUTE INTERVAL)
SPCOND, us/cm

CONTINUOUS MONITOR 3696: STA CB01

MiniSonde5 42509
Log File Name : 3696
Setup Date (M/D/YYYY) : 10/7/2008
Setup Time (HH:MM:SS) : 09:23:17
Starting Date (M/D/YYYY) : 10/7/2008
Starting Time (HH:MM:SS) : 10:30:00
Stopping Date (M/D/YYYY) : 10/9/2008
Stopping Time (HH:MM:SS) : 23:59:59
Interval (HH:MM:SS) : 00:15:00
Sensor warmup (HH:MM:SS) : 00:00:30
Circltr warmup (HH:MM:SS) : 00:00:30

Date M/D/YYYY	Time HH:MM:SS	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l
10/7/2008	16:30:00	26.7	7	5.2	9162	4.7	0.4
10/7/2008	16:45:00	26.7	7	5.2	9158	4.7	0.4
10/7/2008	17:00:00	26.6	7	5.4	9553	4.6	0.4
10/7/2008	17:15:00	26.5	7	5.4	9632	4.6	0.4
10/7/2008	17:30:00	26.6	6.9	5	8932	4.7	0.4
10/7/2008	17:45:00	26.6	6.9	5.1	8979	4.6	0.4
10/7/2008	18:00:00	26.5	6.9	5	8836	4.6	0.4
10/7/2008	18:15:00	26.5	6.9	5	8836	4.6	0.4
10/7/2008	18:30:00	26.5	6.8	5	8919	4.6	0.4
10/7/2008	18:45:00	26.4	6.8	5	8921	4.6	0.4
10/7/2008	19:00:00	26.4	6.8	5.2	9139	4.5	0.4
10/7/2008	19:15:00	26.3	6.8	5	8949	4.5	0.4
10/7/2008	19:30:00	26.3	6.8	5.1	8996	4.5	0.4
10/7/2008	19:45:00	26.3	6.8	5.1	9025	4.5	0.4
10/7/2008	20:00:00	26.3	6.8	5.2	9217	4.5	0.4
10/7/2008	20:15:00	26.1	6.8	5.1	8997	4.4	0.4
10/7/2008	20:30:00	26.1	6.8	5	8959	4.4	0.4
10/7/2008	20:45:00	26.1	6.8	5.1	9058	4.4	0.4
10/7/2008	21:00:00	26.1	6.8	5.1	9031	4.4	0.4

10/7/2008	21:15:00	26	6.7	5.1	9013	4.4	0.3
10/7/2008	21:30:00	26	6.7	5.1	9028	4.4	0.3
10/7/2008	22:00:00	25.9	6.7	5	8919	4.3	0.3
10/7/2008	22:15:00	25.9	6.7	5.2	9302	4.3	0.3
10/7/2008	22:30:00	25.9	6.7	5.1	9002	4.3	0.3
10/7/2008	22:45:00	25.8	6.7	5.1	9103	4.3	0.3
10/7/2008	23:00:00	25.8	6.7	5.1	9038	4.3	0.3
10/7/2008	23:15:00	25.8	6.7	5.1	9055	4.2	0.3
10/7/2008	23:30:00	25.7	6.7	5.1	8999	4.2	0.3
10/7/2008	23:45:00	25.8	6.7	5.1	9060	4.2	0.3
10/8/2008	0:00:00	25.7	6.7	5.1	9123	4.2	0.3
10/8/2008	0:15:00	25.8	6.7	5.3	9367	4.2	0.3
10/8/2008	0:30:00	25.8	6.7	5.3	9318	4.3	0.3
10/8/2008	0:45:00	25.8	6.7	5.2	9241	4.2	0.3
10/8/2008	1:00:00	25.8	6.7	5.2	9272	4.2	0.3
10/8/2008	1:15:00	25.7	6.7	5.1	9088	4.2	0.3
10/8/2008	1:30:00	25.7	6.7	5	8930	4.2	0.3
10/8/2008	1:45:00	25.7	6.7	5.2	9219	4.2	0.3
10/8/2008	2:00:00	25.6	6.6	5.1	9009	4.2	0.3
10/8/2008	2:15:00	25.6	6.7	5.1	8979	4.2	0.3
10/8/2008	2:30:00	25.6	6.6	5.1	9023	4.2	0.3
10/8/2008	2:45:00	25.6	6.7	5.1	8999	4.2	0.3
10/8/2008	3:00:00	25.6	6.7	5.1	9050	4.2	0.3
10/8/2008	3:15:00	25.5	6.6	5	8958	4.1	0.3
10/8/2008	3:30:00	25.5	6.6	5	8959	4.1	0.3
10/8/2008	3:45:00	25.5	6.7	5.1	8990	4.1	0.3
10/8/2008	4:00:00	25.5	6.7	5.1	9064	4.1	0.3
10/8/2008	4:15:00	25.4	6.7	5.1	9071	4.1	0.3
10/8/2008	4:30:00	25.5	6.7	5.1	9049	4.1	0.3
10/8/2008	4:45:00	25.5	6.8	5.1	9059	4.1	0.3
10/8/2008	5:00:00	25.5	6.7	5.1	9080	4.1	0.3
10/8/2008	5:15:00	25.5	6.7	5.1	9067	4.1	0.3
10/8/2008	5:30:00	25.3	6.7	5.1	9045	4	0.3
10/8/2008	5:45:00	25.3	6.7	5.1	9064	4	0.3
10/8/2008	6:00:00	25.3	6.7	5.1	9066	4	0.3
10/8/2008	8:45:00	25.1	6.7	5.2	9196	3.9	0.3
10/8/2008	9:00:00	25.1	6.7	5.2	9215	4	0.3

10/8/2008	9:15:00	25.1	6.7	5.2	9195	4	0.3
10/8/2008	9:30:00	25.1	6.7	5.2	9203	4	0.3
10/8/2008	9:45:00	25.1	6.7	5.2	9188	3.9	0.3
10/8/2008	10:00:00	25.1	6.7	5.2	9217	4	0.3
10/8/2008	10:30:00	25.3	6.8	5.3	9347	4	0.3
10/8/2008	10:45:00	25.3	6.8	5.3	9312	4	0.3
10/8/2008	11:30:00	25.5	6.9	5.2	9269	4.1	0.3
10/8/2008	18:30:00	26.3	6.6	5	8824	57.2	4.5
10/8/2008	18:45:00	26.3	6.6	5	8854	4.5	0.4
10/8/2008	19:00:00	26.1	6.6	5	8865	4.4	0.4
10/8/2008	19:15:00	26.1	6.6	5	8871	46.9	3.7
10/8/2008	19:30:00	26	6.5	5	8868	4.3	0.3
10/8/2008	19:45:00	25.9	6.5	5	8855	4.3	0.3
10/8/2008	20:00:00	25.8	6.5	5	8890	4.3	0.3
10/8/2008	20:15:00	25.7	6.5	5	8868	4.2	0.3
10/8/2008	20:30:00	25.7	6.5	4.9	8779	4.2	0.3
10/8/2008	20:45:00	25.7	6.5	5	8805	4.2	0.3
10/8/2008	21:00:00	25.7	6.5	4.9	8781	4.2	0.3
10/8/2008	21:15:00	25.5	6.5	4.9	8744	4.1	0.3
10/8/2008	21:30:00	25.5	6.5	4.9	8789	4.1	0.3
10/8/2008	21:45:00	25.5	6.5	4.9	8765	4.1	0.3
10/8/2008	22:00:00	25.5	6.5	4.9	8748	4.1	0.3
10/8/2008	22:15:00	25.4	6.5	4.9	8723	4.1	0.3
10/8/2008	22:30:00	25.4	6.5	4.9	8726	4.1	0.3
10/8/2008	22:45:00	25.3	6.5	4.9	8696	4	0.3
10/8/2008	23:00:00	25.2	6.5	4.9	8703	4	0.3
10/8/2008	23:15:00	25.2	6.5	4.9	8684	4	0.3
10/8/2008	23:30:00	25.1	6.5	4.9	8670	3.9	0.3
10/8/2008	23:45:00	25.1	6.5	4.9	8664	3.9	0.3
10/9/2008	0:00:00	25	6.5	4.9	8651	3.9	0.3
10/9/2008	0:15:00	25	6.5	4.9	8634	3.9	0.3
10/9/2008	0:30:00	24.9	6.5	4.9	8644	3.8	0.3
10/9/2008	0:45:00	24.9	6.5	4.9	8631	3.8	0.3
10/9/2008	1:00:00	24.8	6.5	4.8	8617	3.8	0.3
10/9/2008	1:15:00	24.7	6.5	4.8	8624	3.8	0.3
10/9/2008	1:30:00	24.8	6.5	4.9	8632	3.8	0.3
10/9/2008	1:45:00	24.7	6.5	4.8	8625	3.8	0.3

10/9/2008	2:00:00	24.7	6.5	4.8	8623	3.7	0.3
10/9/2008	2:15:00	24.6	6.5	4.8	8600	3.7	0.3
10/9/2008	2:30:00	24.6	6.5	4.8	8584	3.7	0.3
10/9/2008	2:45:00	24.5	6.4	4.8	8558	3.7	0.3
10/9/2008	3:00:00	24.5	6.4	4.8	8550	3.7	0.3
10/9/2008	3:15:00	24.4	6.4	4.8	8544	3.6	0.3
10/9/2008	3:30:00	24.4	6.4	4.8	8517	3.6	0.3
10/9/2008	3:45:00	24.3	6.4	4.8	8508	3.6	0.3
10/9/2008	4:00:00	24.3	6.4	4.8	8510	3.6	0.3
10/9/2008	4:15:00	24.2	6.4	4.8	8503	3.6	0.3
10/9/2008	4:30:00	24.2	6.4	4.8	8494	3.5	0.3
10/9/2008	4:45:00	24.2	6.4	4.8	8504	3.5	0.3
10/9/2008	5:00:00	24.2	6.4	4.8	8520	3.5	0.3
10/9/2008	5:15:00	24.1	6.4	4.8	8485	3.5	0.3
10/9/2008	5:30:00	24	6.4	4.8	8479	3.5	0.3
10/9/2008	5:45:00	24	6.4	4.7	8456	3.5	0.3
10/9/2008	6:00:00	24	6.4	4.8	8465	3.5	0.3
10/9/2008	6:15:00	24	6.4	4.8	8484	3.4	0.3
10/9/2008	6:30:00	23.8	6.5	4.6	8215	3.4	0.3
10/9/2008	6:45:00	24	6.6	4.6	8197	3.5	0.3
10/9/2008	7:00:00	23.9	6.6	4.6	8223	3.4	0.3
10/9/2008	7:15:00	23.9	6.6	4.5	8114	3.4	0.3
10/9/2008	7:30:00	24	6.6	4.5	8084	3.5	0.3
10/9/2008	7:45:00	23.9	6.6	4.5	8057	3.4	0.3
10/9/2008	8:00:00	23.9	6.6	4.5	8030	3.4	0.3
10/9/2008	8:15:00	23.9	6.6	4.5	8048	3.4	0.3
10/9/2008	8:30:00	24	6.6	4.5	8056	3.4	0.3
10/9/2008	8:45:00	24.1	6.6	4.5	8109	3.5	0.3
10/9/2008	9:00:00	24.2	6.6	4.5	8098	3.5	0.3
10/9/2008	9:15:00	24.3	6.6	4.6	8153	3.6	0.3
10/9/2008	9:30:00	24.4	6.6	4.6	8128	3.6	0.3
10/9/2008	9:45:00	24.5	6.6	4.6	8148	3.7	0.3
10/9/2008	10:00:00	24.6	6.6	4.6	8170	3.7	0.3
10/9/2008	10:15:00	24.8	6.6	4.5	8111	3.8	0.3
10/9/2008	10:30:00	24.9	6.6	4.6	8171	3.9	0.3
10/9/2008	10:45:00	25.1	6.6	4.6	8171	3.9	0.3
10/9/2008	11:00:00	25	6.6	4.6	8276	3.9	0.3

10/9/2008	11:15:00	25	6.6	4.5	8071	3.9	0.3
10/9/2008	11:30:00	24.9	6.6	4.6	8210	3.9	0.3
10/9/2008	11:45:00	25.3	6.7	4.6	8189	4	0.3
10/9/2008	12:00:00	25.1	6.7	4.5	8050	3.9	0.3
10/9/2008	12:15:00	25.2	6.7	4.5	8021	4	0.3
10/9/2008	12:30:00	25	6.7	4.5	8022	3.9	0.3
10/9/2008	12:45:00	25.1	6.7	4.5	8091	3.9	0.3
10/9/2008	13:00:00	25.6	6.7	4.5	8037	4.2	0.3

Several Battery Issues

The gap in data does not allow for computing a 24 hour average. Also, the DO readings look suspect. This data was not useable.

CONTINOUS MONITOR 3697 : STA BL08

MiniSonde 5 42503
Log File Name : 3697 BL08
Setup Date (M/D/YYYY) : 10/7/2008
Setup Time (HH:MM:SS) : 09:25:37
Starting Date (M/D/YYYY) : 10/7/2008
Starting Time (HH:MM:SS) : 10:30:00
Stopping Date (M/D/YYYY) : 10/9/2008
Stopping Time (HH:MM:SS) : 23:59:59
Interval (HH:MM:SS) : 00:15:00
Sensor warmup (HH:MM:SS) : 00:00:30
Circltr warmup (HH:MM:SS) : 00:00:30

Date M/D/YYYY	Time HH:MM:SS	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l	READING NUMBER
10/7/2008	13:00:00	26.2	7.2	5.2	9207	83.2	6.5	0
10/7/2008	13:15:00	26.2	7.2	4.9	8752	88.4	7	1
10/7/2008	13:30:00	26.2	7.1	5	8877	85.9	6.8	2
10/7/2008	13:45:00	26.1	7.3	5.6	9848	82.3	6.5	3
10/7/2008	14:00:00	26.4	7.3	5.3	9334	84.8	6.6	4
10/7/2008	14:15:00	26	7.3	6.2	10972	82.8	6.5	5
10/7/2008	14:30:00	26.3	7.2	5.2	9229	87.8	6.9	6
10/7/2008	14:45:00	26.5	7.1	4.9	8784	94.6	7.4	7
10/7/2008	15:00:00	26.4	7.2	5	8947	95.9	7.5	8
10/7/2008	15:15:00	26.1	7.3	6.2	10817	84.8	6.6	9
10/7/2008	15:30:00	26.5	7.2	5.1	9108	94.4	7.4	10
10/7/2008	15:45:00	26.7	7.2	5	8897	98.2	7.7	11
10/7/2008	16:00:00	26.6	7.2	5.2	9266	91.9	7.2	12
10/7/2008	16:15:00	26.6	7.2	5.2	9267	91	7.1	13
10/7/2008	16:30:00	26.6	7.2	5.3	9375	91.3	7.1	14
10/7/2008	16:45:00	26.5	7.2	5.4	9588	89.6	7	15
10/7/2008	17:00:00	26.5	7.2	5.3	9466	89.6	7	16
10/7/2008	17:15:00	26.4	7.2	5.4	9586	88.6	6.9	17
10/7/2008	17:30:00	26.3	7.2	5.5	9800	85.1	6.7	18

10/7/2008	17:45:00	26.3	7.1	5.5	9663	82.6	6.5	19
10/7/2008	18:00:00	26.3	7.1	5.4	9637	81.6	6.4	20
10/7/2008	18:15:00	26.2	7	5.3	9451	77.4	6.1	21
10/7/2008	18:30:00	26.1	7	5.2	9225	73.4	5.8	22
10/7/2008	18:45:00	26.1	6.9	5.2	9191	73.5	5.8	23
10/7/2008	19:00:00	26.1	6.8	5.1	8972	66.3	5.2	24
10/7/2008	19:15:00	26.1	6.9	5.1	9123	73.1	5.8	25
10/7/2008	19:30:00	26.2	6.9	5	8802	73.8	5.8	26
10/7/2008	19:45:00	26.2	6.9	5	8880	72.1	5.7	27
10/7/2008	20:00:00	26.2	6.8	4.9	8645	67.5	5.3	28
10/7/2008	20:15:00	26.2	6.9	4.8	8618	71.8	5.7	29
10/7/2008	20:30:00	26.1	6.8	4.8	8600	69.8	5.5	30
10/7/2008	20:45:00	26.1	6.9	4.8	8574	70	5.5	31
10/7/2008	21:00:00	26.1	6.9	4.8	8564	72.2	5.7	32
10/7/2008	21:15:00	26.1	6.9	4.8	8544	74	5.8	33
10/7/2008	21:30:00	26.1	6.9	4.8	8548	72.2	5.7	34
10/7/2008	21:45:00	26	6.9	4.8	8554	72.2	5.7	35
10/7/2008	22:00:00	26	6.9	4.8	8572	71.1	5.6	36
10/7/2008	22:15:00	26	6.9	4.8	8546	68	5.4	37
10/7/2008	22:30:00	25.9	6.8	4.8	8522	65	5.2	38
10/7/2008	22:45:00	25.9	6.9	4.8	8625	68.3	5.4	39
10/7/2008	23:00:00	25.7	6.8	5.2	9174	60.5	4.8	40
10/7/2008	23:15:00	26.1	7.1	6	10479	73.4	5.8	41
10/7/2008	23:30:00	25.7	6.8	5.2	9207	55.9	4.4	42
10/7/2008	23:45:00	25.7	6.8	5.1	9080	61	4.8	43
10/8/2008	0:00:00	25.7	6.8	5	8836	63.8	5.1	44
10/8/2008	0:15:00	26	6.9	5.2	9139	64.5	5.1	45
10/8/2008	0:30:00	25.9	6.9	5.2	9176	64.1	5.1	46
10/8/2008	0:45:00	26	7	5.7	10014	66.4	5.2	47
10/8/2008	1:00:00	26	7	5.6	9910	64.8	5.1	48
10/8/2008	1:15:00	25.9	6.9	5.3	9450	61.9	4.9	49
10/8/2008	1:30:00	25.9	6.9	5.4	9497	61.2	4.8	50
10/8/2008	1:45:00	25.8	6.9	5.2	9173	61.5	4.9	51
10/8/2008	2:00:00	26	6.9	5.4	9546	63.6	5	52
10/8/2008	2:15:00	25.6	6.8	5.1	9109	60.9	4.8	53
10/8/2008	2:30:00	25.4	6.7	5.1	9053	46.7	3.7	54
10/8/2008	2:45:00	25.4	6.9	5.1	9128	62.7	5	55

10/8/2008	3:00:00	25.5	6.9	5.2	9279	64.3	5.1	56
10/8/2008	3:15:00	25.3	6.8	5.2	9141	58	4.6	57
10/8/2008	3:30:00	25.4	6.8	5.2	9208	60.8	4.8	58
10/8/2008	3:45:00	25.4	6.8	5.2	9214	60.6	4.8	59
10/8/2008	4:00:00	25.4	6.9	5.2	9218	67.1	5.3	60
10/8/2008	4:15:00	25.4	6.9	5.2	9230	68	5.4	61
10/8/2008	4:30:00	25.3	6.9	5.2	9200	65.6	5.2	62
10/8/2008	4:45:00	25.3	6.9	5.2	9199	65.7	5.2	63
10/8/2008	5:00:00	25.3	6.9	5.2	9213	65.2	5.2	64
10/8/2008	5:15:00	25.3	6.9	5.3	9436	64.5	5.1	65
10/8/2008	5:30:00	25.3	6.9	5.4	9480	63	5	66
10/8/2008	5:45:00	25.3	6.9	5.4	9520	62.6	5	67
10/8/2008	6:00:00	25.3	6.9	5.4	9591	62.6	5	68
10/8/2008	6:15:00	25.2	6.9	5.4	9584	62.3	5	69
10/8/2008	6:30:00	25.1	6.9	5.4	9493	62	5	70
10/8/2008	6:45:00	25.2	6.9	5.4	9605	62.5	5	71
10/8/2008	7:00:00	25	6.9	5.4	9617	63.7	5.1	72
10/8/2008	7:15:00	25	6.9	5.4	9634	63.4	5.1	73
10/8/2008	7:30:00	25	6.9	5.5	9776	62.9	5	74
10/8/2008	7:45:00	25.2	6.9	5.5	9688	62.5	5	75
10/8/2008	8:00:00	25	6.9	5.5	9760	63.5	5.1	76
10/8/2008	8:15:00	25	6.9	5.4	9602	62.3	5	77
10/8/2008	8:30:00	25.1	6.9	5.3	9354	62.5	5	78
10/8/2008	8:45:00	25	6.9	5.3	9318	60.4	4.9	79
10/8/2008	9:00:00	25.2	6.9	5.3	9332	62.3	5	80
10/8/2008	9:15:00	25.1	6.9	5.2	9284	62.5	5	81
10/8/2008	9:30:00	25.1	6.9	5.5	9677	64.2	5.1	82
10/8/2008	9:45:00	25.1	6.9	5.5	9665	62.7	5	83
10/8/2008	10:00:00	25.2	6.9	5.3	9444	67.9	5.4	84
10/8/2008	10:15:00	25.2	6.9	5.3	9431	69	5.5	85
10/8/2008	10:30:00	25.3	6.9	5.2	9265	71.8	5.7	86
10/8/2008	10:45:00	25.4	6.9	5.2	9237	72.5	5.8	87
10/8/2008	11:00:00	25.3	7	5.3	9449	72.6	5.8	88
10/8/2008	11:15:00	25.5	6.9	5.2	9211	74.7	5.9	89
10/8/2008	11:30:00	25.8	7	5.1	9117	78.1	6.2	90
10/8/2008	11:45:00	26	7	5.1	9133	81.7	6.4	91
10/8/2008	12:00:00	25.9	7	5.2	9251	76.2	6	92

10/8/2008	12:15:00	25.7	6.9	5.3	9437	70.3	5.6	93
10/8/2008	12:30:00	26.2	6.9	5.1	9058	75.2	5.9	94
10/8/2008	12:45:00	26.4	7	5	8923	84.5	6.6	95
10/8/2008	13:00:00	26.3	6.9	5	8923	79.7	6.3	96
10/8/2008	13:15:00	26.3	6.9	5.1	8975	83.7	6.6	97
10/8/2008	13:30:00	26.4	7	5.1	8978	86.3	6.8	98
10/8/2008	13:45:00	26.5	7	5.1	9054	91.9	7.2	99
10/8/2008	14:00:00	26.5	7	5.1	9085	90.9	7.1	100
10/8/2008	14:15:00	26.5	7	5.1	9108	92.7	7.2	101
10/8/2008	14:30:00	26.5	6.9	5.1	9009	87.9	6.9	102
10/8/2008	14:45:00	26.3	6.8	5	8903	81.6	6.4	103
10/8/2008	15:00:00	26.6	7	5.1	9058	93.4	7.3	104
10/8/2008	15:15:00	26.6	7	5.1	9021	91.8	7.2	105
10/8/2008	15:30:00	26.6	6.9	5.1	8995	89.5	7	106
10/8/2008	15:45:00	26.6	6.9	5	8939	91.1	7.1	107
10/8/2008	16:00:00	26.5	6.9	5	8894	89.9	7	108
10/8/2008	16:15:00	26.5	6.9	5	8878	90.2	7.1	109
10/8/2008	16:30:00	26.4	7	5	8938	91.6	7.2	110
10/8/2008	16:45:00	26.3	7	5	8897	89.2	7	111
10/8/2008	17:00:00	26.4	6.9	4.9	8794	92.3	7.2	112
10/8/2008	17:15:00	26.2	6.9	5.1	8975	88.7	7	113
10/8/2008	17:30:00	26.3	6.9	4.9	8699	89.3	7	114
10/8/2008	17:45:00	26.2	6.9	4.8	8600	88.7	7	115
10/8/2008	18:00:00	26.3	6.9	4.8	8591	90.1	7.1	116
10/8/2008	18:15:00	26.1	6.9	4.8	8599	87.9	6.9	117
10/8/2008	18:30:00	26	6.8	4.8	8508	84	6.6	118
10/8/2008	18:45:00	26.1	6.9	4.8	8478	86.4	6.8	119
10/8/2008	19:00:00	26.1	6.9	4.8	8486	87.2	6.9	120
10/8/2008	19:15:00	26.2	6.9	4.8	8534	86	6.8	121
10/8/2008	19:30:00	26.4	7	4.8	8538	93.2	7.3	122
10/8/2008	19:45:00	26.3	6.9	4.8	8499	89.8	7.1	123
10/8/2008	20:00:00	26.1	6.9	4.7	8454	87.1	6.9	124
10/8/2008	20:15:00	26.3	7	4.7	8423	92.4	7.3	125
10/8/2008	20:30:00	26.1	6.9	4.7	8357	87.7	6.9	126
10/8/2008	20:45:00	26	6.9	4.7	8304	84.5	6.7	127
10/8/2008	21:00:00	26	6.9	4.7	8298	84.7	6.7	128
10/8/2008	21:15:00	25.9	6.9	4.6	8277	84.4	6.7	129

10/8/2008	21:30:00	25.9	6.9	4.6	8260	81.7	6.5	130
10/8/2008	21:45:00	25.8	6.9	4.6	8240	80.6	6.4	131
10/8/2008	22:00:00	25.7	6.8	4.6	8194	79	6.3	132
10/8/2008	22:15:00	25.6	6.8	4.6	8194	77.8	6.2	133
10/8/2008	22:30:00	25.6	6.8	4.6	8173	76.7	6.1	134
10/8/2008	22:45:00	25.5	6.8	4.5	8114	75.3	6	135
10/8/2008	23:00:00	25.3	6.8	4.5	8053	74.8	6	136
10/8/2008	23:15:00	25.3	6.8	4.5	8058	73.9	5.9	137
10/8/2008	23:30:00	25.4	6.8	4.5	8065	74.3	6	138
10/8/2008	23:45:00	25.3	6.8	4.5	8047	73.1	5.9	139
10/9/2008	0:00:00	25.2	6.8	4.5	7987	72.5	5.8	140
10/9/2008	0:15:00	25.2	6.8	4.5	7977	72	5.8	141
10/9/2008	0:30:00	25.1	6.8	4.4	7924	72.2	5.8	142
10/9/2008	0:45:00	25	6.8	4.4	7882	71.9	5.8	143
10/9/2008	1:00:00	25.1	6.8	4.4	7923	72.1	5.8	144
10/9/2008	1:15:00	25	6.8	4.4	7922	71.5	5.8	145
10/9/2008	1:30:00	25	6.8	4.5	7949	70.2	5.7	146
10/9/2008	1:45:00	25	6.8	4.4	7916	69.4	5.6	147
10/9/2008	2:00:00	25	6.8	4.4	7907	68.3	5.5	148
10/9/2008	2:15:00	25	6.7	4.5	8023	63.3	5.1	149
10/9/2008	2:30:00	24.8	6.8	4.4	7867	67.6	5.5	150
10/9/2008	2:45:00	24.8	6.8	4.4	7840	68	5.5	151
10/9/2008	3:00:00	24.6	6.8	4.4	7800	66.9	5.4	152
10/9/2008	3:15:00	24.6	6.8	4.4	7808	66.1	5.4	153
10/9/2008	3:30:00	24.6	6.7	4.4	7821	64.9	5.3	154
10/9/2008	3:45:00	24.4	6.7	4.3	7761	65.2	5.3	155
10/9/2008	4:00:00	24.5	6.7	4.4	7803	63.6	5.2	156
10/9/2008	4:15:00	24.4	6.7	4.4	7788	62.6	5.1	157
10/9/2008	4:30:00	24.3	6.7	4.4	7782	61.5	5	158
10/9/2008	4:45:00	24.4	6.7	4.4	7871	61	5	159
10/9/2008	5:00:00	24.3	6.7	4.4	7842	59.3	4.8	160
10/9/2008	5:15:00	24.5	6.7	4.4	7941	54.6	4.4	161
10/9/2008	5:30:00	24.5	6.7	4.5	7995	57.2	4.7	162
10/9/2008	5:45:00	24.5	6.7	4.4	7923	56.1	4.6	163
10/9/2008	6:00:00	24.4	6.7	4.4	7893	55.8	4.6	164
10/9/2008	6:15:00	24.3	6.7	4.4	7921	55.2	4.5	165
10/9/2008	6:30:00	24.3	6.7	4.4	7898	56.1	4.6	166

10/9/2008	6:45:00	24.3	6.7	4.4	7922	56	4.6	167
10/9/2008	7:00:00	24.1	6.7	4.4	7903	57.2	4.7	168
10/9/2008	7:15:00	24.1	6.7	4.5	7958	56	4.6	169
10/9/2008	7:30:00	24.1	6.7	4.4	7935	55.9	4.6	170
10/9/2008	7:45:00	24	6.7	4.4	7844	55.9	4.6	171
10/9/2008	8:00:00	24	6.7	4.3	7743	56	4.6	172
10/9/2008	8:15:00	23.9	6.7	4.3	7693	56.1	4.6	173
10/9/2008	8:30:00	24	6.7	4.3	7762	56.3	4.6	174
10/9/2008	8:45:00	24	6.7	4.4	7788	56.3	4.6	175
10/9/2008	9:00:00	24	6.7	4.4	7821	56	4.6	176
10/9/2008	9:15:00	24	6.7	4.4	7926	56.9	4.7	177
10/9/2008	9:30:00	24	6.7	4.4	7850	57.3	4.7	178
10/9/2008	9:45:00	24.1	6.7	4.4	7788	58	4.8	179
10/9/2008	10:00:00	24.1	6.7	4.2	7602	59.1	4.8	180
10/9/2008	10:15:00	24.1	6.7	4.3	7682	59.5	4.9	181
10/9/2008	10:30:00	24.3	6.7	4.3	7706	60.7	5	182
10/9/2008	10:45:00	24.4	6.7	4.3	7620	61.5	5	183
10/9/2008	11:00:00	24.5	6.7	4.4	7832	63.3	5.2	184
10/9/2008	11:15:00	24.5	6.7	4.3	7704	64.3	5.2	185
10/9/2008	11:30:00	24.6	6.7	4.5	7956	66.8	5.4	186
10/9/2008	11:45:00	24.8	6.8	4.4	7910	68.8	5.6	187
10/9/2008	12:00:00	24.9	6.8	4.4	7896	70.4	5.7	188
10/9/2008	12:15:00	25	6.8	4.4	7901	71.4	5.8	189
10/9/2008	12:30:00	24.8	6.8	4.4	7930	69.2	5.6	190

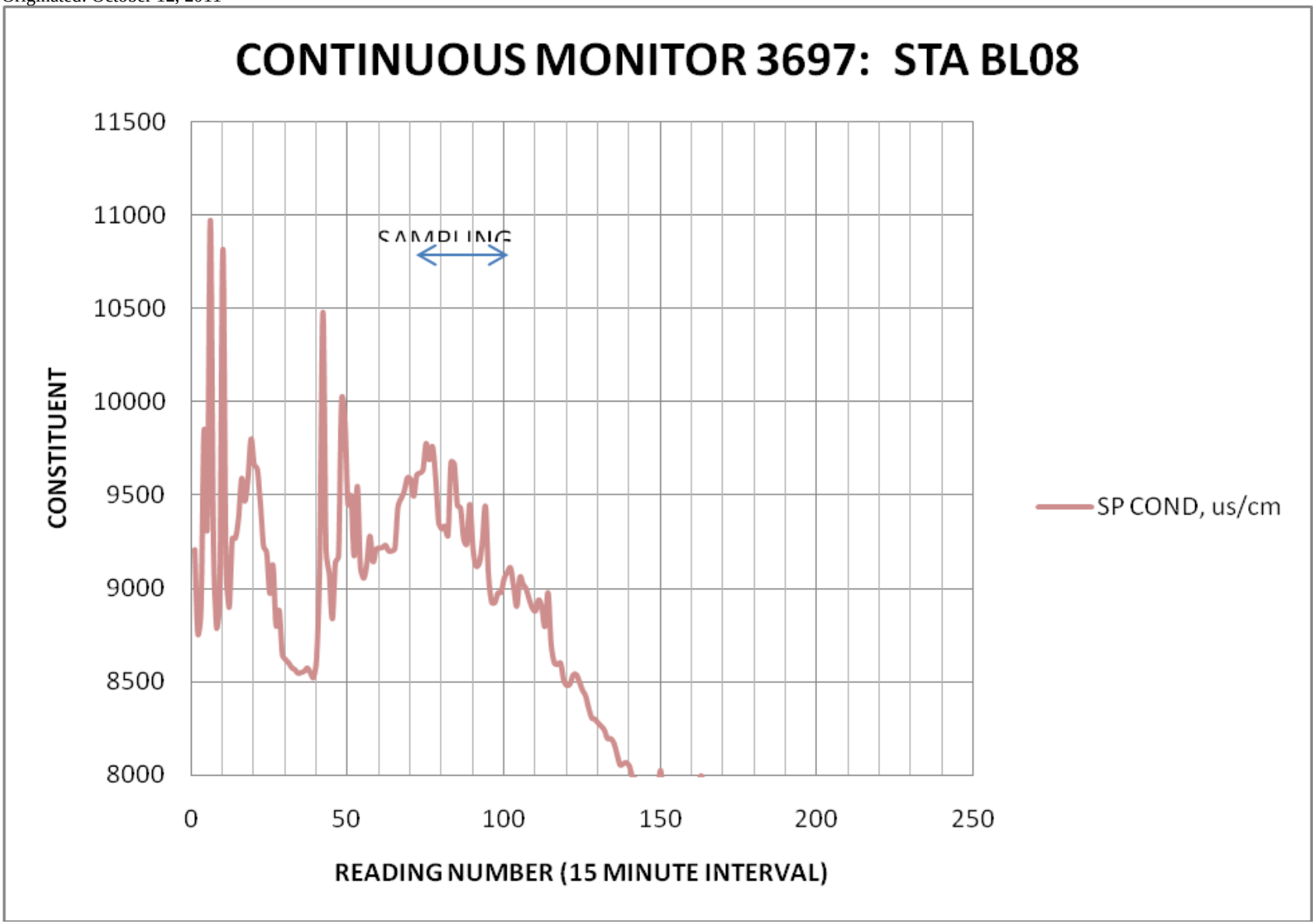
	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l
24 HOUR AVG	25.524	6.887	4.91	8739.92	72.4	5.76
24 HOUR MIN	23.9	6.7	4.2	7602	46.7	3.7
24 HOUR MAX	26.7	7.3	6.2	10972	98.2	7.7

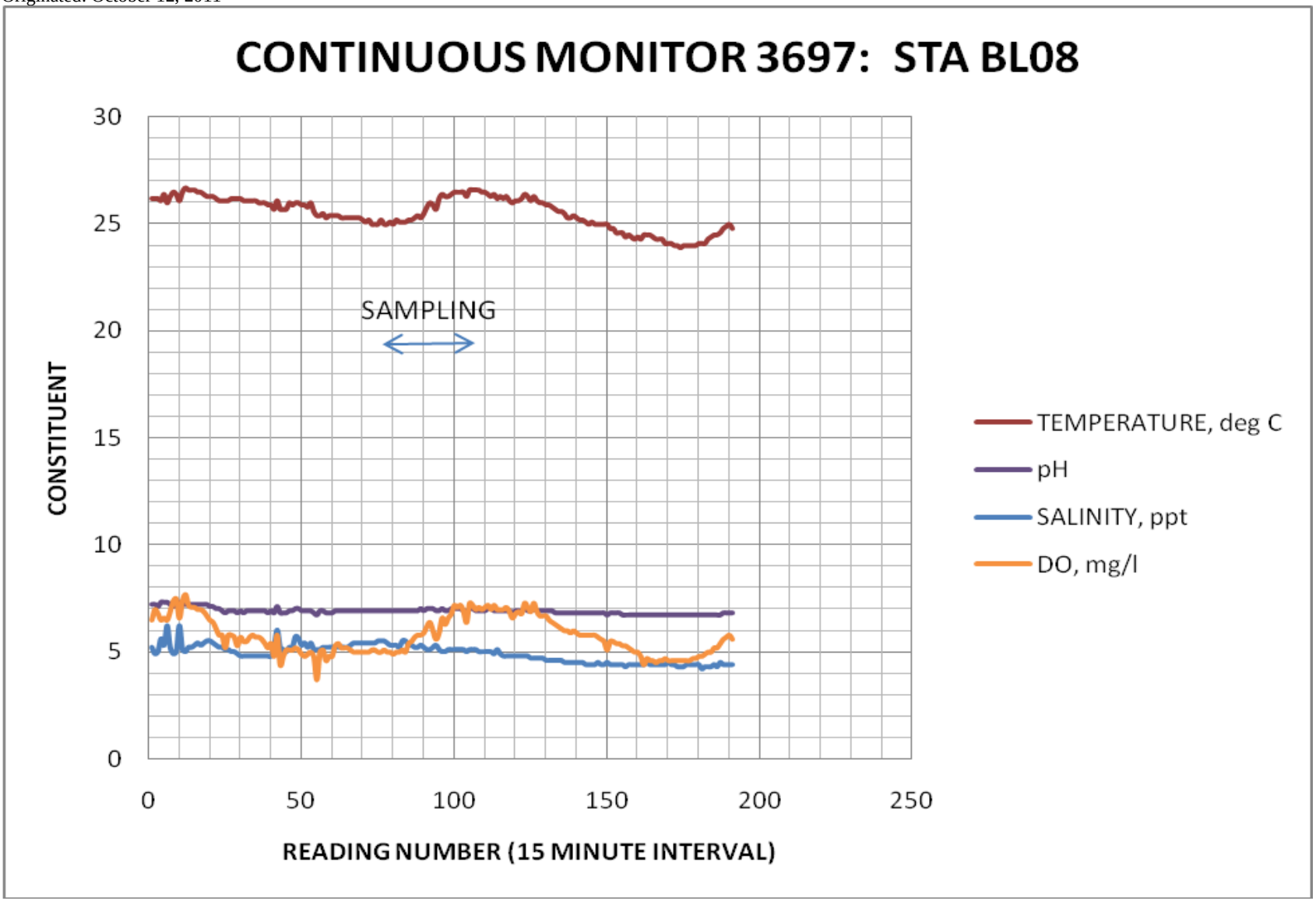
24 HOURS WAS FROM 13:00 TO 12:30 OVER 2 DAYS SINCE WE HAD 2 FULL DAYS OF DATA LESS ONE READING

SAMPLING PERIOD AVG	25.491	6.922	5.26	9327.57	70.47	5.6

SAMPLING PERIOD MIN	25	6.9	5	8923	60.4	4.9
SAMPLING PERIOD MAX	26.4	7	5.5	9760	84.5	6.6

SURVEY SAMPLING PERIOD WAS FROM 7:45 AM TO 1:15 PM ON 10/08/2008


CONTINUOUS MONITOR 3697: STA BL08
11500
11000
10500
10000
9500
9000
8500
8000
CONSTITUENT
SAMPLING
0
50
100
150
200
250
READING NUMBER (15 MINUTE INTERVAL)
SP COND, us/cm


CONTINUOUS MONITOR 3697: STA BL08
30
25
20
15
10
5
0
CONSTITUENT
SAMPLING
0
50
100
150
200
250
READING NUMBER (15 MINUTE INTERVAL)
TEMPERATURE, deg C
pH
SALINITY, ppt
DO, mg/l

CONTINUOUS MONITOR 3698 : STA BL09

MiniSonde 5 43535
Log File Name : 3698 BL09
Setup Date (M/D/YYYY) : 10/7/2008
Setup Time (HH:MM:SS) : 09:20:08
Starting Date (M/D/YYYY) : 10/7/2008
Starting Time (HH:MM:SS) : 10:30:00
Stopping Date (M/D/YYYY) : 10/9/2008
Stopping Time (HH:MM:SS) : 23:59:59
Interval (HH:MM:SS) : 00:15:00
Sensor warmup (HH:MM:SS) : 00:00:30
Circltr warmup (HH:MM:SS) : 00:00:30

Date M/D/YYYY	Time HH:MM:SS	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l	READING NUMBER
10/7/2008	12:45:00	25.7	7.5	7	12246	81.1	6.4	0
10/7/2008	13:00:00	25.7	7.5	7	12248	81.3	6.4	1
10/7/2008	13:15:00	25.8	7.4	7	12261	79.5	6.2	2
10/7/2008	13:30:00	25.9	7.4	7	12268	78.9	6.2	3
10/7/2008	13:45:00	25.9	7.4	7	12265	79.2	6.2	4
10/7/2008	14:00:00	25.9	7.4	7	12263	79.2	6.2	5
10/7/2008	14:15:00	25.8	7.5	7	12254	80.7	6.3	6
10/7/2008	14:30:00	25.9	7.5	7	12257	80.2	6.3	7
10/7/2008	14:45:00	25.9	7.5	7	12257	81.8	6.4	8
10/7/2008	15:00:00	25.9	7.5	7	12256	82.7	6.5	9
10/7/2008	15:15:00	25.9	7.5	7	12270	83.1	6.5	10
10/7/2008	15:30:00	26	7.5	7	12271	84.3	6.6	11
10/7/2008	15:45:00	25.9	7.5	7	12258	82.9	6.5	12
10/7/2008	16:00:00	25.9	7.5	7	12264	83.5	6.5	13
10/7/2008	16:15:00	26.2	7.5	7	12293	84.3	6.6	14
10/7/2008	16:30:00	26.2	7.5	7.1	12297	85.3	6.6	15
10/7/2008	16:45:00	26.2	7.4	7.1	12298	77.5	6	16
10/7/2008	17:00:00	26.4	7.6	7.1	12334	89.7	7	17
10/7/2008	17:15:00	26.3	7.6	7.1	12337	90.2	7	18

10/7/2008	17:30:00	26.3	7.5	7.1	12340	85.8	6.7	19
10/7/2008	17:45:00	26.3	7.5	7.1	12351	88.1	6.8	20
10/7/2008	18:00:00	26.2	7.5	7.1	12339	82.4	6.4	21
10/7/2008	18:15:00	26.2	7.5	7.1	12344	81.8	6.4	22
10/7/2008	18:30:00	26.1	7.4	7.1	12331	81.3	6.3	23
10/7/2008	18:45:00	26.1	7.4	7.1	12327	79.3	6.2	24
10/7/2008	19:00:00	26	7.4	7.1	12320	77.5	6	25
10/7/2008	19:15:00	26.1	7.5	7.1	12327	82.1	6.4	26
10/7/2008	19:30:00	26	7.4	7.1	12334	81	6.3	27
10/7/2008	19:45:00	26	7.4	7.1	12343	81.5	6.4	28
10/7/2008	20:00:00	26	7.4	7.1	12341	80	6.2	29
10/7/2008	20:15:00	26	7.4	7.1	12339	79.6	6.2	30
10/7/2008	20:30:00	25.9	7.4	7.1	12340	78.8	6.2	31
10/7/2008	20:45:00	25.9	7.4	7.1	12343	79.4	6.2	32
10/7/2008	21:00:00	25.9	7.5	7.1	12340	84	6.6	33
10/7/2008	21:15:00	25.8	7.4	7.1	12341	78.1	6.1	34
10/7/2008	21:30:00	25.8	7.4	7.1	12347	80.6	6.3	35
10/7/2008	21:45:00	25.8	7.4	7.1	12348	79.4	6.2	36
10/7/2008	22:00:00	25.7	7.4	7.1	12349	77.6	6.1	37
10/7/2008	22:15:00	25.7	7.3	7.1	12371	73.3	5.7	38
10/7/2008	22:30:00	25.7	7.3	7.1	12372	73.8	5.8	39
10/7/2008	22:45:00	25.7	7.3	7.1	12371	74.2	5.8	40
10/7/2008	23:00:00	25.7	7.3	7.1	12371	74.3	5.8	41
10/7/2008	23:15:00	25.7	7.3	7.1	12350	72.6	5.7	42
10/7/2008	23:30:00	25.6	7.3	7.1	12354	72.9	5.7	43
10/7/2008	23:45:00	25.6	7.3	7.1	12345	70.4	5.5	44
10/8/2008	0:00:00	25.5	7.3	7.1	12353	73.6	5.8	45
10/8/2008	0:15:00	25.5	7.3	7.1	12349	73.2	5.8	46
10/8/2008	0:30:00	25.5	7.3	7.1	12349	70.2	5.5	47
10/8/2008	0:45:00	25.5	7.3	7.1	12355	68.6	5.4	48
10/8/2008	1:00:00	25.5	7.3	7.1	12356	69.2	5.4	49
10/8/2008	1:15:00	25.5	7.3	7.1	12362	70.9	5.6	50
10/8/2008	1:30:00	25.4	7.3	7.1	12360	71.2	5.6	51
10/8/2008	1:45:00	25.6	7.3	7.1	12352	69.7	5.5	52
10/8/2008	2:00:00	25.6	7.3	7.1	12340	70.1	5.5	53
10/8/2008	2:15:00	25.6	7.3	7.1	12334	69.9	5.5	54
10/8/2008	2:30:00	25.6	7.3	7.1	12333	70.4	5.5	55

10/8/2008	2:45:00	25.5	7.3	7.1	12332	70.3	5.5	56
10/8/2008	3:00:00	25.5	7.3	7.1	12337	70.1	5.5	57
10/8/2008	3:15:00	25.5	7.3	7.1	12358	70.3	5.5	58
10/8/2008	3:30:00	25.4	7.3	7.1	12365	70.7	5.6	59
10/8/2008	3:45:00	25.4	7.3	7.1	12364	70.8	5.6	60
10/8/2008	4:00:00	25.3	7.3	7.1	12365	70.8	5.6	61
10/8/2008	4:15:00	25.3	7.3	7.1	12365	71.1	5.6	62
10/8/2008	4:30:00	25.3	7.3	7.1	12367	71.1	5.6	63
10/8/2008	4:45:00	25.3	7.3	7.1	12366	71.3	5.6	64
10/8/2008	5:00:00	25.3	7.3	7.1	12366	72	5.7	65
10/8/2008	5:15:00	25.1	7.4	7.1	12339	79.7	6.3	66
10/8/2008	5:30:00	25.1	7.5	7.1	12337	82.9	6.6	67
10/8/2008	5:45:00	25.1	7.5	7.1	12319	85.6	6.8	68
10/8/2008	6:00:00	25.1	7.5	7.1	12336	82.8	6.6	69
10/8/2008	6:15:00	25	7.3	7.1	12354	71.7	5.7	70
10/8/2008	6:30:00	25	7.4	7.1	12340	79.7	6.3	71
10/8/2008	6:45:00	24.9	7.4	7.1	12337	81.2	6.5	72
10/8/2008	7:00:00	24.9	7.5	7.1	12335	81.6	6.5	73
10/8/2008	7:15:00	24.9	7.3	7.1	12349	72.9	5.8	74
10/8/2008	7:30:00	24.6	7.2	7.1	12346	66.1	5.3	75
10/8/2008	7:45:00	24.4	7.2	7.1	12349	65	5.2	76
10/8/2008	8:00:00	24.9	7.3	7.1	12297	69.7	5.6	77
10/8/2008	8:15:00	24.9	7.3	7	12264	71.2	5.7	78
10/8/2008	8:30:00	25	7.3	7	12247	71.4	5.7	79
10/8/2008	8:45:00	24.9	7.3	7	12222	70.3	5.6	80
10/8/2008	9:00:00	24.8	7.3	7	12248	69.9	5.6	81
10/8/2008	9:15:00	24.8	7.3	7	12255	69.8	5.6	82
10/8/2008	9:30:00	24.9	7.3	7	12262	70.8	5.6	83
10/8/2008	9:45:00	24.9	7.3	7	12269	72	5.7	84
10/8/2008	10:00:00	24.9	7.3	7	12281	72.7	5.8	85
10/8/2008	10:15:00	24.9	7.3	7	12267	74.1	5.9	86
10/8/2008	10:30:00	24.9	7.3	7	12275	74.2	5.9	87
10/8/2008	10:45:00	25	7.3	7	12280	75.6	6	88
10/8/2008	11:00:00	24.8	7.4	7.1	12312	78.7	6.3	89
10/8/2008	11:15:00	24.8	7.4	7.1	12324	83.2	6.6	90
10/8/2008	11:30:00	24.9	7.4	7.1	12314	84	6.7	91
10/8/2008	11:45:00	25	7.4	7.1	12310	83.2	6.6	92

10/8/2008	12:00:00	25.1	7.4	7.1	12307	82.2	6.5	93
10/8/2008	12:15:00	25.1	7.4	7.1	12311	84.6	6.7	94
10/8/2008	12:30:00	25.2	7.4	7	12267	84.8	6.7	95
10/8/2008	12:45:00	25.3	7.5	7.1	12327	94.7	7.5	96
10/8/2008	13:00:00	25.4	7.5	7.1	12309	95.4	7.5	97
10/8/2008	13:15:00	25.4	7.5	7.1	12305	94.5	7.4	98
10/8/2008	13:30:00	25.3	7.5	7	12266	89.1	7	99
10/8/2008	13:45:00	24.9	7.3	7	12188	80	6.4	100
10/8/2008	14:00:00	25.6	7.6	7.1	12313	100.1	7.9	101
10/8/2008	14:15:00	25.6	7.7	7.1	12310	101.8	8	102
10/8/2008	14:30:00	25.6	7.7	7.1	12319	104.8	8.2	103
10/8/2008	14:45:00	25.7	7.7	7.1	12306	105	8.2	104
10/8/2008	15:00:00	25.9	7.8	7.1	12320	110.3	8.6	105
10/8/2008	15:15:00	25.9	7.8	7.1	12345	112.4	8.8	106
10/8/2008	15:30:00	26	8	7.1	12368	118.8	9.3	107
10/8/2008	15:45:00	26	8	7.1	12376	119.4	9.3	108
10/8/2008	16:00:00	26	7.9	7.1	12337	112.8	8.8	109
10/8/2008	16:15:00	26	7.9	7	12244	113.8	8.9	110
10/8/2008	16:30:00	26.2	8	7.1	12400	119.1	9.3	111
10/8/2008	16:45:00	26.2	8	7.1	12388	119.5	9.3	112
10/8/2008	17:00:00	26.1	8	7	12269	115.4	9	113
10/8/2008	17:15:00	26	7.9	7	12167	110.2	8.6	114
10/8/2008	17:30:00	26.1	8	7	12245	114.9	9	115
10/8/2008	17:45:00	26	8	7	12288	114.9	9	116
10/8/2008	18:00:00	26	8	7.1	12319	113.2	8.8	117
10/8/2008	18:15:00	25.9	8	7.1	12339	112.5	8.8	118
10/8/2008	18:30:00	25.9	7.8	6.9	12114	109.5	8.6	119
10/8/2008	18:45:00	25.7	7.9	7.1	12354	108.2	8.5	120
10/8/2008	19:00:00	25.6	7.9	7	12291	105.4	8.3	121
10/8/2008	19:15:00	25.5	7.9	7.1	12341	105.3	8.3	122
10/8/2008	19:30:00	25.5	7.8	7	12142	103.4	8.1	123
10/8/2008	19:45:00	25.4	7.7	7	12181	97.3	7.7	124
10/8/2008	20:00:00	25.3	7.8	7.1	12342	97.7	7.7	125
10/8/2008	20:15:00	25.3	7.7	7	12221	95.5	7.6	126
10/8/2008	20:30:00	25.1	7.7	7.1	12324	95.7	7.6	127
10/8/2008	20:45:00	25	7.8	7.1	12387	96.1	7.6	128
10/8/2008	21:00:00	25	7.6	7	12206	90.7	7.2	129

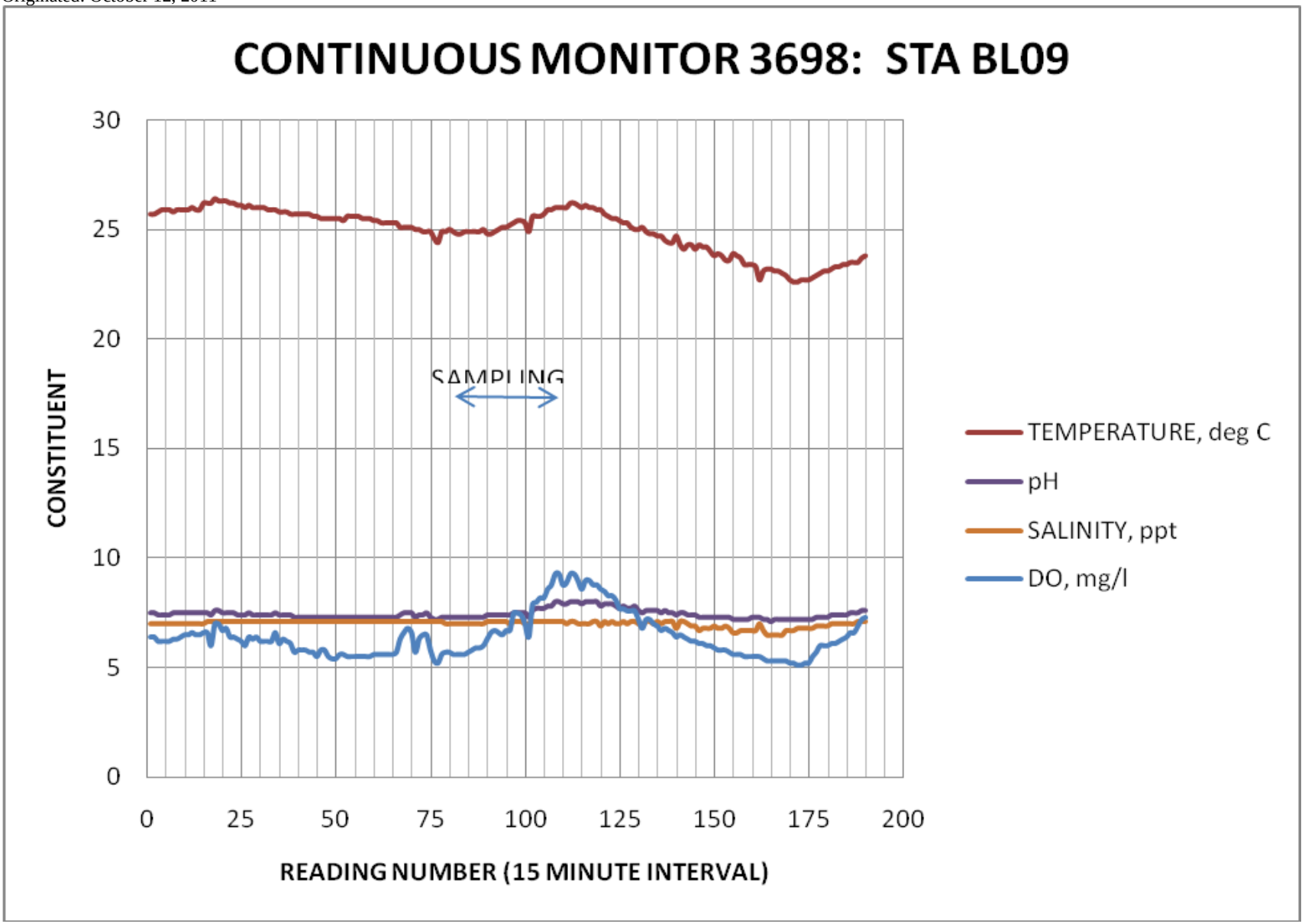
10/8/2008	21:15:00	25.1	7.5	6.9	12118	85.5	6.8	130
10/8/2008	21:30:00	24.9	7.6	7.1	12365	90.8	7.2	131
10/8/2008	21:45:00	24.8	7.6	7.1	12365	89.8	7.2	132
10/8/2008	22:00:00	24.8	7.6	7	12265	87.2	7	133
10/8/2008	22:15:00	24.7	7.6	7.1	12342	86.8	6.9	134
10/8/2008	22:30:00	24.7	7.5	7	12224	84.3	6.7	135
10/8/2008	22:45:00	24.5	7.6	7.1	12438	85.4	6.8	136
10/8/2008	23:00:00	24.4	7.5	7.1	12434	83.4	6.7	137
10/8/2008	23:15:00	24.4	7.5	7.1	12321	82.4	6.6	138
10/8/2008	23:30:00	24.7	7.4	6.8	11909	79.6	6.4	139
10/8/2008	23:45:00	24.3	7.5	7.1	12313	80.2	6.5	140
10/9/2008	0:00:00	24.1	7.5	7.1	12446	79.3	6.4	141
10/9/2008	0:15:00	24.3	7.4	7	12193	78.5	6.3	142
10/9/2008	0:30:00	24.3	7.4	6.9	12076	77.5	6.2	143
10/9/2008	0:45:00	24.1	7.4	6.9	11999	76.7	6.2	144
10/9/2008	1:00:00	24.3	7.3	6.7	11738	75.6	6.1	145
10/9/2008	1:15:00	24.2	7.3	6.8	11818	75.2	6.1	146
10/9/2008	1:30:00	24.2	7.3	6.8	11812	74.3	6	147
10/9/2008	1:45:00	24	7.3	6.8	11848	73.7	6	148
10/9/2008	2:00:00	23.8	7.3	6.9	12094	72.6	5.9	149
10/9/2008	2:15:00	23.9	7.3	6.8	11878	72	5.8	150
10/9/2008	2:30:00	23.8	7.3	6.8	11910	71.4	5.8	151
10/9/2008	2:45:00	23.6	7.3	6.9	11982	70.8	5.8	152
10/9/2008	3:00:00	23.6	7.3	6.8	11953	70	5.7	153
10/9/2008	3:15:00	23.9	7.2	6.6	11557	69.1	5.6	154
10/9/2008	3:30:00	23.8	7.2	6.6	11489	68.4	5.6	155
10/9/2008	3:45:00	23.7	7.2	6.7	11640	68	5.6	156
10/9/2008	4:00:00	23.4	7.2	6.7	11751	67.5	5.5	157
10/9/2008	4:15:00	23.4	7.2	6.7	11748	67.2	5.5	158
10/9/2008	4:30:00	23.4	7.3	6.7	11698	66.6	5.5	159
10/9/2008	4:45:00	23.3	7.3	6.7	11721	66.4	5.5	160
10/9/2008	5:00:00	22.7	7.3	7	12217	66.1	5.5	161
10/9/2008	5:15:00	23.1	7.2	6.7	11700	65.5	5.4	162
10/9/2008	5:30:00	23.2	7.2	6.5	11413	64.8	5.3	163
10/9/2008	5:45:00	23.2	7.1	6.5	11366	64.6	5.3	164
10/9/2008	6:00:00	23.1	7.2	6.5	11466	64.5	5.3	165
10/9/2008	6:15:00	23.1	7.2	6.5	11429	64.5	5.3	166

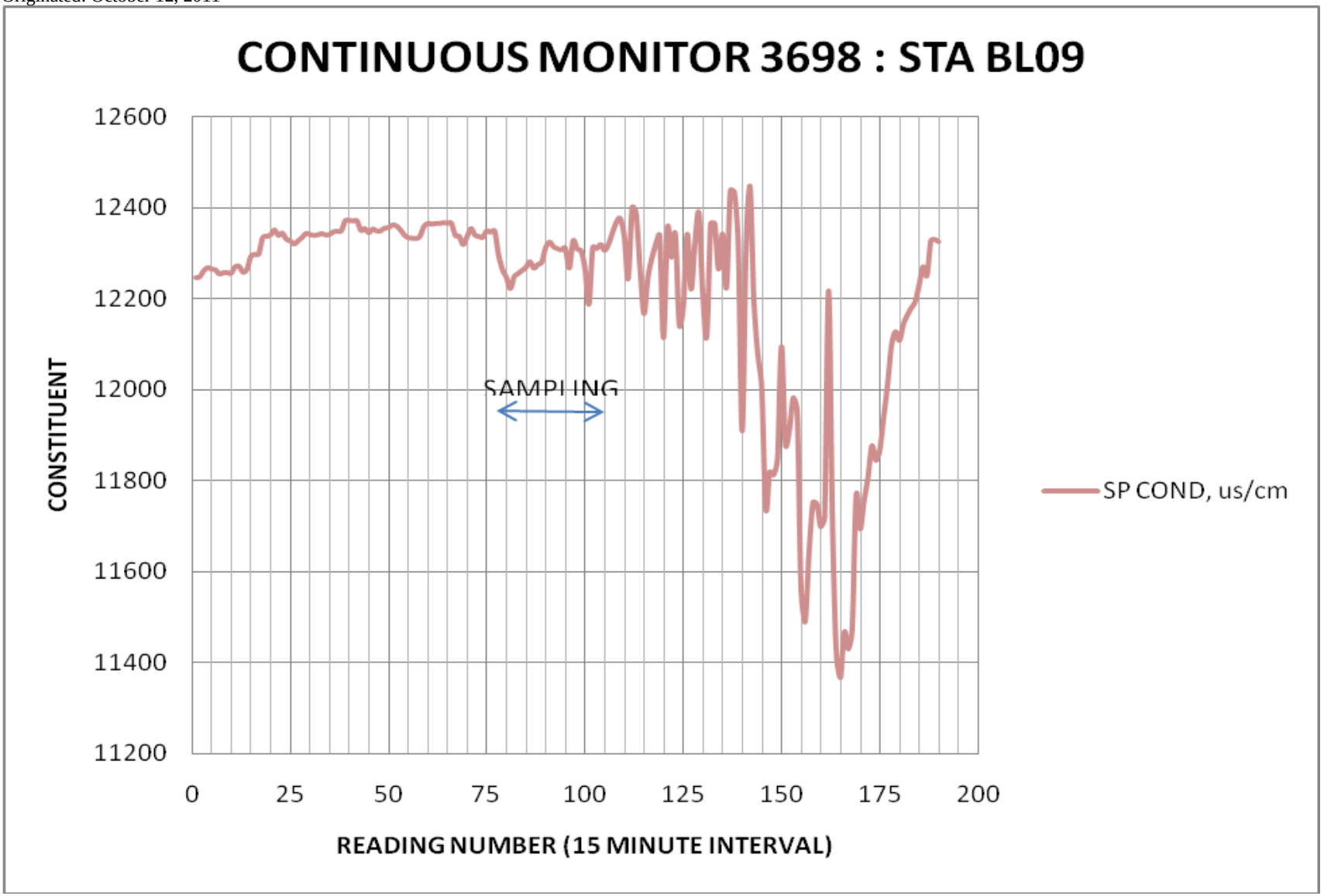
10/9/2008	6:30:00	23	7.2	6.5	11471	64.5	5.3	167
10/9/2008	6:45:00	22.9	7.2	6.7	11765	63.8	5.3	168
10/9/2008	7:00:00	22.7	7.2	6.7	11693	63	5.2	169
10/9/2008	7:15:00	22.6	7.2	6.7	11755	62.4	5.2	170
10/9/2008	7:30:00	22.6	7.2	6.8	11806	61.7	5.1	171
10/9/2008	7:45:00	22.7	7.2	6.8	11876	61.4	5.1	172
10/9/2008	8:00:00	22.7	7.2	6.8	11844	63.2	5.2	173
10/9/2008	8:15:00	22.7	7.2	6.8	11866	62.8	5.2	174
10/9/2008	8:30:00	22.8	7.2	6.8	11939	66.2	5.5	175
10/9/2008	8:45:00	22.9	7.3	6.9	12012	69.1	5.7	176
10/9/2008	9:00:00	23	7.3	6.9	12098	72.3	6	177
10/9/2008	9:15:00	23.1	7.3	6.9	12127	73	6	178
10/9/2008	9:30:00	23.1	7.3	6.9	12108	73	6	179
10/9/2008	9:45:00	23.2	7.4	7	12143	73.8	6.1	180
10/9/2008	10:00:00	23.3	7.4	7	12163	74.8	6.1	181
10/9/2008	10:15:00	23.3	7.4	7	12179	75.7	6.2	182
10/9/2008	10:30:00	23.4	7.4	7	12193	76.8	6.3	183
10/9/2008	10:45:00	23.4	7.4	7	12229	78.2	6.4	184
10/9/2008	11:00:00	23.5	7.5	7	12270	80.2	6.6	185
10/9/2008	11:15:00	23.5	7.5	7	12251	80.4	6.6	186
10/9/2008	11:30:00	23.5	7.5	7.1	12327	84.2	6.9	187
10/9/2008	11:45:00	23.7	7.6	7.1	12330	88.2	7.2	188
10/9/2008	12:00:00	23.8	7.6	7.1	12325	90.2	7.3	189

	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l
24 HOUR AVG	24.4	7.503	6.933	12097.1	85.041	6.811
24 HOUR MIN	22.6	7.1	6.5	11366	61.4	5.1
24 HOUR MAX	26.2	8	7.1	12446	119.5	9.3
OVERALL AVG	24.95	7.443	7.002	12207.4	81.025	6.437
OVERALL MIN	22.6	7.1	6.5	11366	61.4	5.1
OVERALL MAX	26.4	8	7.1	12446	119.5	9.3

24 HOURS WAS FROM NOON TO 11:45 OVER 1 DAY

SAMPLING PERIOD AVG	24.97	7.352	7.048	12287	77.913	6.191
SAMPLING PERIOD MIN	24.4	7.2	7	12222	65	5.2
SAMPLING PERIOD MAX	25.4	7.5	7.1	12349	95.4	7.5


CONTINUOUS MONITOR 3698: STA BL09
30
25
20
15
10
5
0
CONSTITUENT
SAMPLING
0
25
50
75
100
125
150
175
200
READING NUMBER (15 MINUTE INTERVAL)
TEMPERATURE, deg C
pH
SALINITY, ppt
DO, mg/l


CONTINUOUS MONITOR 3698 : STA BL09
12600
12400
12200
12000
11800
11600
11400
11200
CONSTITUENT
SAMPLING
0
25
50
75
100
125
150
175
200
READING NUMBER (15 MINUTE INTERVAL)
SP COND, us/cm

CONTINUOUS MONITOR 3699: STA LP01

MiniSonde 5 43552
Log File Name : 3699 LP01
Setup Date (M/D/YYYY) : 10/7/2008
Setup Time (HH:MM:SS) : 09:15:55
Starting Date (M/D/YYYY) : 10/7/2008
Starting Time (HH:MM:SS) : 10:30:00
Stopping Date (M/D/YYYY) : 10/9/2008
Stopping Time (HH:MM:SS) : 23:59:59
Interval (HH:MM:SS) : 00:15:00
Sensor warmup (HH:MM:SS) : 00:00:30
Circltr warmup (HH:MM:SS) : 00:00:30

Date M/D/YYYY	Time HH:MM:SS	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l	READING NUMBER
10/7/2008	12:45:00	25.6	7.6	7.1	12435	88.5	7	0
10/7/2008	13:00:00	25.6	7.6	7.1	12458	90.2	7.1	1
10/7/2008	13:15:00	25.6	7.6	7.2	12464	90.4	7.1	2
10/7/2008	13:30:00	25.7	7.6	7.1	12459	90	7.1	3
10/7/2008	13:45:00	25.7	7.6	7.2	12464	91.6	7.2	4
10/7/2008	14:00:00	25.7	7.7	7.2	12466	93	7.3	5
10/7/2008	14:15:00	25.7	7.7	7.2	12461	93.4	7.3	6
10/7/2008	14:30:00	25.7	7.7	7.1	12459	93.9	7.4	7
10/7/2008	14:45:00	25.3	7.7	7.2	12570	94.9	7.5	8
10/7/2008	15:00:00	25.7	7.7	7.2	12481	94.7	7.4	9
10/7/2008	15:15:00	25.7	7.7	7.2	12474	94.5	7.4	10
10/7/2008	15:30:00	25.7	7.7	7.2	12462	94.4	7.4	11
10/7/2008	15:45:00	25.7	7.7	7.1	12444	93.5	7.3	12
10/7/2008	16:00:00	25.7	7.7	7.1	12420	92.9	7.3	13
10/7/2008	16:15:00	25.7	7.7	7.1	12404	92.4	7.2	14
10/7/2008	16:30:00	25.7	7.7	7.1	12367	92.3	7.2	15
10/7/2008	16:45:00	25.7	7.6	7.1	12340	91.2	7.2	16
10/7/2008	17:00:00	25.7	7.6	7.1	12319	89.8	7	17
10/7/2008	17:15:00	25.6	7.6	7	12293	89	7	18

10/7/2008	17:30:00	25.7	7.6	7	12278	88.3	6.9	19
10/7/2008	17:45:00	25.7	7.6	7	12265	87.9	6.9	20
10/7/2008	18:00:00	25.6	7.6	7	12252	88.2	6.9	21
10/7/2008	18:15:00	25.6	7.6	7	12256	87.9	6.9	22
10/7/2008	18:30:00	25.6	7.6	7	12247	88.1	6.9	23
10/7/2008	18:45:00	25.6	7.6	7	12241	88.1	6.9	24
10/7/2008	19:00:00	25.6	7.6	7	12230	88.1	6.9	25
10/7/2008	19:15:00	25.6	7.6	7	12214	88.7	7	26
10/7/2008	19:30:00	25.5	7.6	7	12185	89.4	7	27
10/7/2008	19:45:00	25.5	7.6	7	12164	89.7	7.1	28
10/7/2008	20:00:00	25.5	7.6	7	12145	90.1	7.1	29
10/7/2008	20:15:00	25.6	7.6	6.9	12116	90.7	7.1	30
10/7/2008	20:30:00	25.6	7.6	6.9	12110	91	7.2	31
10/7/2008	20:45:00	25.6	7.7	6.9	12106	91.3	7.2	32
10/7/2008	21:00:00	25.5	7.7	6.9	12103	91.2	7.2	33
10/7/2008	21:15:00	25.5	7.7	6.9	12102	91.6	7.2	34
10/7/2008	21:30:00	25.5	7.7	6.9	12110	91.2	7.2	35
10/7/2008	21:45:00	25.5	7.7	6.9	12118	90.8	7.2	36
10/7/2008	22:00:00	25.5	7.7	6.9	12133	90.7	7.1	37
10/7/2008	22:15:00	25.5	7.7	7	12152	91.2	7.2	38
10/7/2008	22:30:00	25.5	7.7	7	12171	91.5	7.2	39
10/7/2008	22:45:00	25.5	7.7	7	12178	91.7	7.2	40
10/7/2008	23:00:00	25.4	7.7	7	12180	91.5	7.2	41
10/7/2008	23:15:00	25.4	7.7	7	12179	91.6	7.2	42
10/7/2008	23:30:00	25.4	7.7	7	12183	91.4	7.2	43
10/7/2008	23:45:00	25.4	7.7	7	12186	90.9	7.2	44
10/8/2008	0:00:00	25.4	7.7	7	12187	91	7.2	45
10/8/2008	0:15:00	25.4	7.7	7	12190	90.9	7.2	46
10/8/2008	0:30:00	25.4	7.7	7	12194	91.2	7.2	47
10/8/2008	0:45:00	25.4	7.7	7	12199	90.9	7.2	48
10/8/2008	1:00:00	25.3	7.7	7	12200	90.7	7.2	49
10/8/2008	1:15:00	25.3	7.7	7	12203	91.1	7.2	50
10/8/2008	1:30:00	25.3	7.7	7	12206	90.9	7.2	51
10/8/2008	1:45:00	25.3	7.7	7	12209	90.7	7.2	52
10/8/2008	2:00:00	25.3	7.7	7	12209	90.5	7.2	53
10/8/2008	2:15:00	25.3	7.7	7	12207	90.1	7.1	54
10/8/2008	2:30:00	25.2	7.7	7	12205	91.1	7.2	55

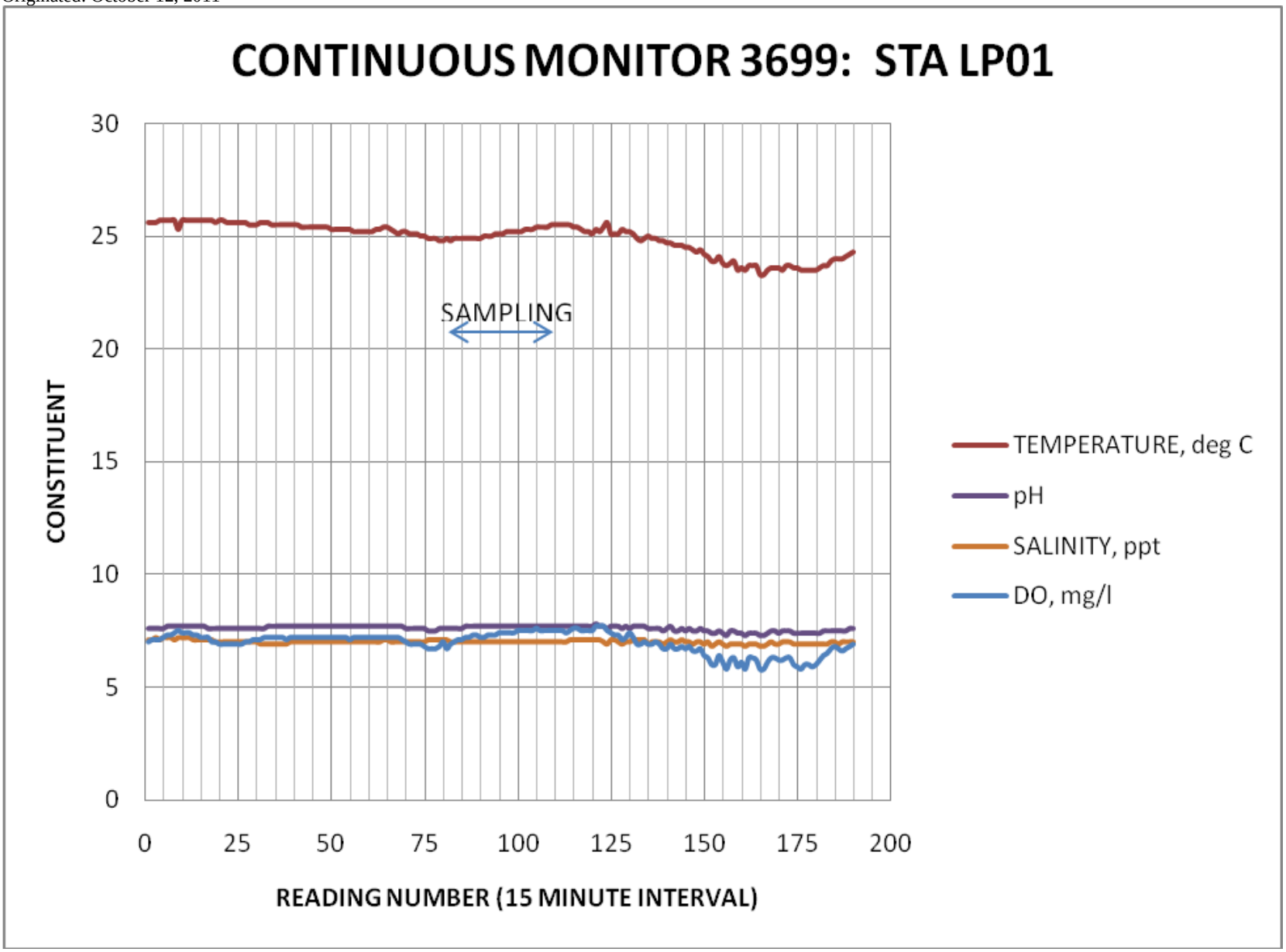
10/8/2008	2:45:00	25.2	7.7	7	12203	90.9	7.2	56
10/8/2008	3:00:00	25.2	7.7	7	12201	90.6	7.2	57
10/8/2008	3:15:00	25.2	7.7	7	12202	91	7.2	58
10/8/2008	3:30:00	25.2	7.7	7	12202	90.9	7.2	59
10/8/2008	3:45:00	25.2	7.7	7	12200	91	7.2	60
10/8/2008	4:00:00	25.3	7.7	7	12201	91	7.2	61
10/8/2008	4:15:00	25.3	7.7	7	12220	91.3	7.2	62
10/8/2008	4:30:00	25.4	7.7	7.1	12312	91.4	7.2	63
10/8/2008	4:45:00	25.4	7.7	7.1	12321	90.8	7.2	64
10/8/2008	5:00:00	25.3	7.7	7	12278	91.6	7.2	65
10/8/2008	5:15:00	25.2	7.7	7	12200	90.8	7.2	66
10/8/2008	5:30:00	25.1	7.7	7	12182	90.5	7.2	67
10/8/2008	5:45:00	25.2	7.7	7	12187	90	7.1	68
10/8/2008	6:00:00	25.2	7.6	7	12219	88.1	7	69
10/8/2008	6:15:00	25.1	7.6	7	12232	87.5	6.9	70
10/8/2008	6:30:00	25.1	7.6	7	12231	87.4	6.9	71
10/8/2008	6:45:00	25.1	7.6	7	12226	87.5	6.9	72
10/8/2008	7:00:00	25	7.6	7	12246	87.1	6.9	73
10/8/2008	7:15:00	25	7.6	7	12291	85.1	6.8	74
10/8/2008	7:30:00	24.9	7.5	7.1	12318	83.7	6.7	75
10/8/2008	7:45:00	24.9	7.5	7.1	12322	83.9	6.7	76
10/8/2008	8:00:00	24.9	7.5	7.1	12312	84	6.7	77
10/8/2008	8:15:00	24.8	7.6	7.1	12304	84.8	6.8	78
10/8/2008	8:30:00	24.8	7.6	7.1	12306	87.4	7	79
10/8/2008	8:45:00	24.9	7.6	7.1	12299	84.6	6.7	80
10/8/2008	9:00:00	24.8	7.6	7	12287	86.3	6.9	81
10/8/2008	9:15:00	24.9	7.6	7	12262	87.6	7	82
10/8/2008	9:30:00	24.9	7.6	7	12221	88.8	7.1	83
10/8/2008	9:45:00	24.9	7.6	7	12200	89.7	7.1	84
10/8/2008	10:00:00	24.9	7.7	7	12181	90.3	7.2	85
10/8/2008	10:15:00	24.9	7.7	7	12182	90.8	7.2	86
10/8/2008	10:30:00	24.9	7.7	7	12181	91.6	7.3	87
10/8/2008	10:45:00	24.9	7.7	7	12183	92.1	7.3	88
10/8/2008	11:00:00	24.9	7.7	7	12207	90.7	7.2	89
10/8/2008	11:15:00	25	7.7	7	12215	90.9	7.2	90
10/8/2008	11:30:00	25	7.7	7	12199	92.4	7.3	91
10/8/2008	11:45:00	25	7.7	7	12179	92.4	7.3	92

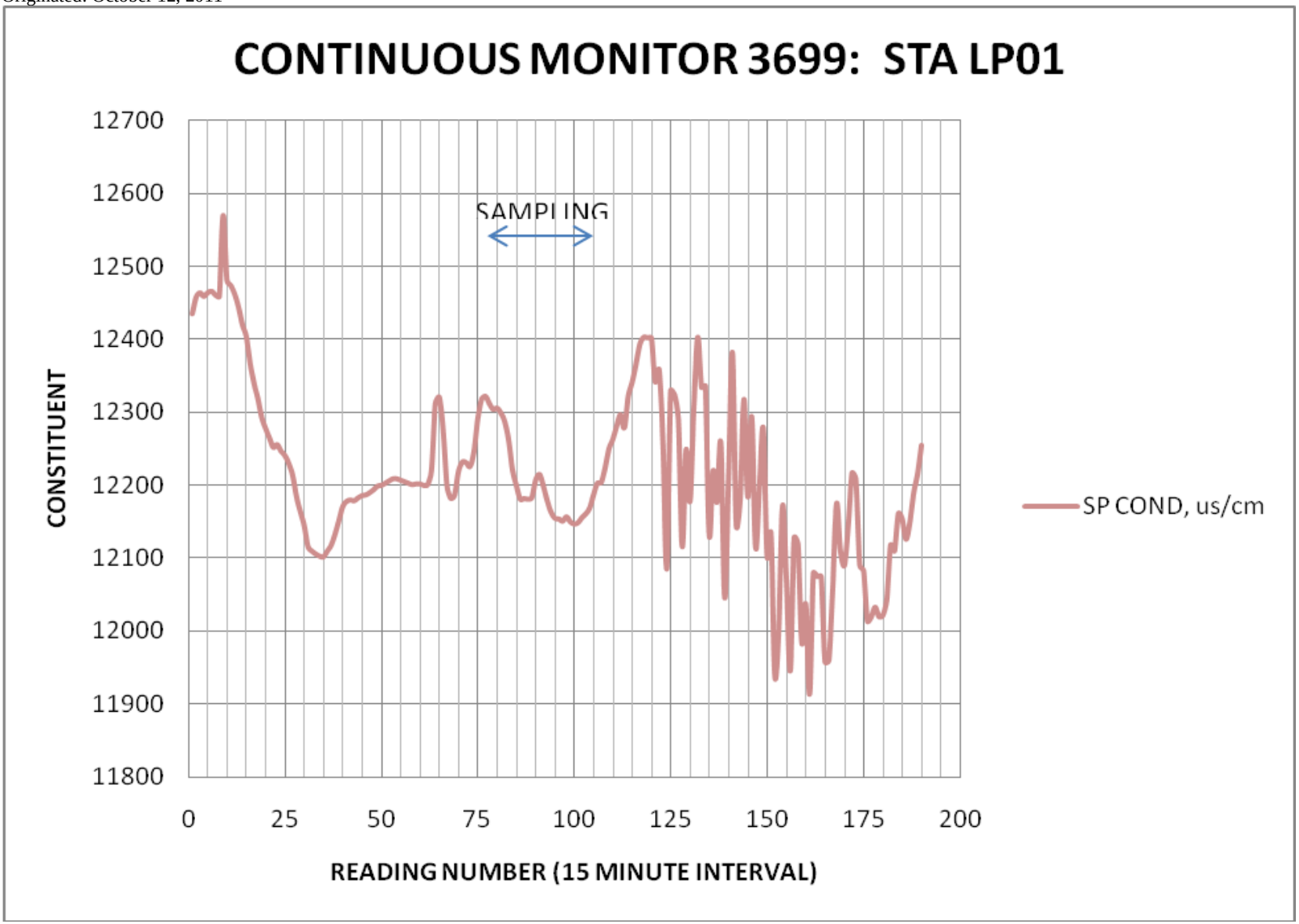
10/8/2008	12:00:00	25.1	7.7	7	12163	92.4	7.3	93
10/8/2008	12:15:00	25.1	7.7	7	12155	93.1	7.4	94
10/8/2008	12:30:00	25.1	7.7	7	12154	93.2	7.4	95
10/8/2008	12:45:00	25.2	7.7	7	12151	93.7	7.4	96
10/8/2008	13:00:00	25.2	7.7	7	12157	93.7	7.4	97
10/8/2008	13:15:00	25.2	7.7	7	12150	94	7.4	98
10/8/2008	13:30:00	25.2	7.7	7	12147	94.2	7.5	99
10/8/2008	13:45:00	25.2	7.7	7	12149	94.7	7.5	100
10/8/2008	14:00:00	25.3	7.7	7	12156	94.9	7.5	101
10/8/2008	14:15:00	25.3	7.7	7	12161	95.5	7.5	102
10/8/2008	14:30:00	25.3	7.7	7	12169	95.5	7.5	103
10/8/2008	14:45:00	25.4	7.7	7	12187	95.7	7.6	104
10/8/2008	15:00:00	25.4	7.7	7	12203	95.6	7.5	105
10/8/2008	15:15:00	25.4	7.7	7	12204	95.5	7.5	106
10/8/2008	15:30:00	25.4	7.7	7	12224	94.9	7.5	107
10/8/2008	15:45:00	25.5	7.7	7	12250	95.5	7.5	108
10/8/2008	16:00:00	25.5	7.7	7	12263	95.1	7.5	109
10/8/2008	16:15:00	25.5	7.7	7	12281	95.6	7.5	110
10/8/2008	16:30:00	25.5	7.7	7	12297	95.5	7.5	111
10/8/2008	16:45:00	25.5	7.7	7	12279	94	7.4	112
10/8/2008	17:00:00	25.5	7.7	7.1	12322	95.5	7.5	113
10/8/2008	17:15:00	25.4	7.7	7.1	12341	95.9	7.6	114
10/8/2008	17:30:00	25.4	7.7	7.1	12366	95.8	7.6	115
10/8/2008	17:45:00	25.3	7.7	7.1	12393	95.2	7.5	116
10/8/2008	18:00:00	25.2	7.7	7.1	12403	95.3	7.5	117
10/8/2008	18:15:00	25.2	7.7	7.1	12402	95.1	7.5	118
10/8/2008	18:30:00	25.1	7.7	7.1	12402	95.1	7.5	119
10/8/2008	18:45:00	25.3	7.8	7.1	12342	98.1	7.7	120
10/8/2008	19:00:00	25.2	7.7	7.1	12358	97.2	7.7	121
10/8/2008	19:15:00	25.4	7.7	7	12259	97.5	7.7	122
10/8/2008	19:30:00	25.6	7.6	6.9	12086	95.2	7.5	123
10/8/2008	19:45:00	25.1	7.7	7.1	12330	93.9	7.4	124
10/8/2008	20:00:00	25.1	7.7	7.1	12324	92.6	7.3	125
10/8/2008	20:15:00	25.1	7.7	7	12290	91.6	7.3	126
10/8/2008	20:30:00	25.3	7.6	6.9	12116	90.3	7.1	127
10/8/2008	20:45:00	25.2	7.7	7	12249	90.9	7.2	128
10/8/2008	21:00:00	25.2	7.6	7	12178	93	7.4	129

10/8/2008	21:15:00	25.1	7.7	7.1	12305	90.2	7.2	130
10/8/2008	21:30:00	24.9	7.7	7.1	12403	86.8	6.9	131
10/8/2008	21:45:00	24.8	7.7	7.1	12334	87.1	6.9	132
10/8/2008	22:00:00	24.9	7.7	7.1	12336	88	7	133
10/8/2008	22:15:00	25	7.6	6.9	12131	87.3	6.9	134
10/8/2008	22:30:00	24.9	7.6	7	12220	87	6.9	135
10/8/2008	22:45:00	24.9	7.6	7	12177	87.8	7	136
10/8/2008	23:00:00	24.8	7.6	7	12258	87.1	6.9	137
10/8/2008	23:15:00	24.8	7.5	6.9	12046	84.1	6.7	138
10/8/2008	23:30:00	24.7	7.6	7	12207	84.3	6.7	139
10/8/2008	23:45:00	24.7	7.7	7.1	12382	86.3	6.9	140
10/9/2008	0:00:00	24.6	7.5	7	12146	83.6	6.7	141
10/9/2008	0:15:00	24.6	7.5	7	12179	83.8	6.7	142
10/9/2008	0:30:00	24.6	7.6	7.1	12318	84.9	6.8	143
10/9/2008	0:45:00	24.5	7.5	7	12184	83.1	6.7	144
10/9/2008	1:00:00	24.5	7.6	7	12294	84.4	6.8	145
10/9/2008	1:15:00	24.4	7.5	6.9	12115	82	6.6	146
10/9/2008	1:30:00	24.3	7.5	7	12196	82.5	6.6	147
10/9/2008	1:45:00	24.4	7.6	7	12278	83.2	6.7	148
10/9/2008	2:00:00	24.2	7.5	6.9	12102	79	6.4	149
10/9/2008	2:15:00	24.1	7.5	7	12134	78.5	6.3	150
10/9/2008	2:30:00	23.9	7.4	6.8	11938	74.3	6	151
10/9/2008	2:45:00	23.9	7.4	6.9	12001	73.8	6	152
10/9/2008	3:00:00	24.1	7.5	7	12172	79	6.4	153
10/9/2008	3:15:00	23.8	7.4	6.9	12071	75.5	6.1	154
10/9/2008	3:30:00	23.7	7.3	6.8	11946	71.3	5.8	155
10/9/2008	3:45:00	23.8	7.5	6.9	12128	76.9	6.2	156
10/9/2008	4:00:00	23.9	7.5	6.9	12119	78.2	6.3	157
10/9/2008	4:15:00	23.5	7.4	6.9	11984	72.3	5.9	158
10/9/2008	4:30:00	23.6	7.4	6.9	12037	74.5	6.1	159
10/9/2008	4:45:00	23.5	7.3	6.8	11914	70.9	5.8	160
10/9/2008	5:00:00	23.7	7.4	6.9	12080	77	6.3	161
10/9/2008	5:15:00	23.7	7.4	6.9	12075	77.1	6.3	162
10/9/2008	5:30:00	23.7	7.4	6.9	12075	76.8	6.2	163
10/9/2008	5:45:00	23.3	7.3	6.8	11958	71.2	5.8	164
10/9/2008	6:00:00	23.3	7.3	6.8	11960	71.1	5.8	165
10/9/2008	6:15:00	23.5	7.4	6.9	12060	75.1	6.1	166

10/9/2008	6:30:00	23.6	7.5	7	12175	77.3	6.3	167
10/9/2008	6:45:00	23.6	7.5	6.9	12110	77.5	6.3	168
10/9/2008	7:00:00	23.6	7.4	6.9	12090	76.5	6.2	169
10/9/2008	7:15:00	23.5	7.5	7	12143	75.8	6.2	170
10/9/2008	7:30:00	23.7	7.5	7	12217	77	6.3	171
10/9/2008	7:45:00	23.7	7.5	7	12208	77.3	6.3	172
10/9/2008	8:00:00	23.6	7.4	6.9	12091	73.7	6	173
10/9/2008	8:15:00	23.6	7.4	6.9	12083	72.4	5.9	174
10/9/2008	8:30:00	23.5	7.4	6.9	12014	71.2	5.8	175
10/9/2008	8:45:00	23.5	7.4	6.9	12020	72.8	6	176
10/9/2008	9:00:00	23.5	7.4	6.9	12033	73.8	6	177
10/9/2008	9:15:00	23.5	7.4	6.9	12020	72.3	5.9	178
10/9/2008	9:30:00	23.5	7.4	6.9	12022	73.8	6	179
10/9/2008	9:45:00	23.6	7.4	6.9	12043	76.1	6.2	180
10/9/2008	10:00:00	23.7	7.5	6.9	12118	79.1	6.4	181
10/9/2008	10:15:00	23.7	7.5	6.9	12110	79.6	6.5	182
10/9/2008	10:30:00	23.9	7.5	7	12161	82.9	6.7	183
10/9/2008	10:45:00	24	7.5	7	12154	83.7	6.8	184
10/9/2008	11:00:00	24	7.5	6.9	12126	82.5	6.7	185
10/9/2008	11:15:00	24	7.5	7	12150	81.4	6.6	186
10/9/2008	11:30:00	24.1	7.5	7	12190	82.4	6.7	187
10/9/2008	11:45:00	24.2	7.6	7	12216	84.9	6.8	188
10/9/2008	12:00:00	24.3	7.6	7	12255	85.9	6.9	189

	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l
SAMPLING PERIOD AVG	24.97	7.65	7.02	12216.09	89.93	7.14
SAMPLING PERIOD MIN	24.80	7.50	7.00	12150.00	83.90	6.70
SAMPLING PERIOD MAX	25.20	7.70	7.10	12322.00	94.00	7.40
OVERALL AVERAGE	24.92	7.61	7.00	12214.94	87.66	6.97
OVERALL MINIMUM	23.30	7.30	6.80	11914.00	70.90	5.80
OVERALL MAXIMUM	25.70	7.80	7.20	12570.00	98.10	7.70


CONTINUOUS MONITOR 3699: STA LP01
30
25
20
15
10
5
0
CONSTITUENT
SAMPLING
0
25
50
75
100
125
150
175
200
READING NUMBER (15 MINUTE INTERVAL)
TEMPERATURE, deg C
pH
SALINITY, ppt
DO, mg/l


CONTINUOUS MONITOR 3699: STA LP01
12700
12600
12500
12400
12300
12200
12100
12000
11900
11800
CONSTITUENT
SAMPLING
0
25
50
75
100
125
150
175
200
READING NUMBER (15 MINUTE INTERVAL)
SP COND, us/cm

CONTINUOUS MONITOR 3842: STA BB02

MiniSonde 5 43540
Log File Name : 3842 BB02
Setup Date (M/D/YYYY) : 10/7/2008
Setup Time (HH:MM:SS) : 08:47:30
Starting Date (M/D/YYYY) : 10/7/2008
Starting Time (HH:MM:SS) : 09:30:00
Stopping Date (M/D/YYYY) : 10/10/2008
Stopping Time (HH:MM:SS) : 13:00:00
Interval (HH:MM:SS) : 00:15:00
Sensor warmup (HH:MM:SS) : 00:00:30
Circltr warmup (HH:MM:SS) : 00:00:30

Date M/D/YYYY	Time HH:MM:SS	Temp ?C	pH Units	Sal ppt	SpCond ?S/cm	LDO% Sat	LDO mg/l	READING NUMBER
10/7/2008	10:45:00	23.3	6.2	1.5	2754	3.6	0.3	0
10/7/2008	11:00:00	23.3	6.2	1.5	2741	3.8	0.3	1
10/7/2008	11:15:00	23.3	6.2	1.6	2907	3.1	0.3	2
10/7/2008	11:30:00	23.4	6.2	1.7	3062	3.4	0.3	3
10/7/2008	11:45:00	23.5	6.2	1.8	3280	3.2	0.3	4
10/7/2008	12:00:00	23.5	6.2	1.7	3165	2.9	0.2	5
10/7/2008	12:15:00	23.5	6.2	1.8	3231	3.2	0.3	6
10/7/2008	12:30:00	23.4	6.3	1.7	3127	2.8	0.2	7
10/7/2008	12:45:00	23.4	6.2	1.6	3006	2.8	0.2	8
10/7/2008	13:00:00	23.5	6.2	1.7	3182	2.8	0.2	9
10/7/2008	13:15:00	23.4	6.2	1.7	3087	3	0.3	10
10/7/2008	13:30:00	23.4	6.2	1.7	3155	2.9	0.3	11
10/7/2008	13:45:00	23.4	6.2	1.7	3052	2.7	0.2	12
10/7/2008	14:00:00	23.3	6.2	1.5	2828	3.4	0.3	13
10/7/2008	14:15:00	23.4	6.2	1.6	2868	2.7	0.2	14
10/7/2008	14:30:00	23.5	6.2	1.7	3159	3.2	0.3	15
10/7/2008	14:45:00	23.5	6.2	1.7	3164	2.7	0.2	16
10/7/2008	15:00:00	23.4	6.2	1.7	3081	2.7	0.2	17
10/7/2008	15:15:00	23.5	6.2	1.7	3110	2.7	0.2	18

10/7/2008	15:30:00	23.5	6.2	1.8	3304	2.6	0.2	19
10/7/2008	15:45:00	23.6	6.2	1.9	3500	2.7	0.2	20
10/7/2008	16:00:00	23.6	6.2	1.9	3577	2.7	0.2	21
10/7/2008	16:15:00	23.6	6.2	2	3657	2.6	0.2	22
10/7/2008	16:30:00	23.5	6.2	1.8	3300	2.8	0.2	23
10/7/2008	16:45:00	23.4	6.3	1.6	2885	3.3	0.3	24
10/7/2008	17:00:00	23.3	6.2	1.5	2800	2.9	0.3	25
10/7/2008	17:15:00	23.3	6.2	1.3	2486	3.2	0.3	26
10/7/2008	17:30:00	23.3	6.2	1.3	2328	2.8	0.2	27
10/7/2008	17:45:00	23.3	6.2	1	1840	6.3	0.5	28
10/7/2008	18:00:00	23.3	6.2	0.9	1708	9.1	0.8	29
10/7/2008	18:15:00	23.3	6.2	0.8	1428	4	0.3	30
10/7/2008	18:30:00	23.3	6.2	0.7	1290	15.9	1.4	31
10/7/2008	18:45:00	23.4	6.2	0.8	1573	14.1	1.2	32
10/7/2008	19:00:00	23.4	6.2	0.5	986	13.7	1.2	33
10/7/2008	19:15:00	23.4	6.2	0.5	999	19.3	1.6	34
10/7/2008	19:30:00	23.4	6.2	0.7	1268	12.4	1.1	35
10/7/2008	19:45:00	23.4	6.2	0.5	923	13.8	1.2	36
10/7/2008	20:00:00	23.4	6.2	0.5	1021	12.8	1.1	37
10/7/2008	20:15:00	23.3	6.2	0.5	1014	18.4	1.6	38
10/7/2008	20:30:00	23.3	6.2	0.6	1063	10.5	0.9	39
10/7/2008	20:45:00	23.3	6.2	0.5	986	17.2	1.5	40
10/7/2008	21:00:00	23.3	6.2	0.4	813	15.7	1.3	41
10/7/2008	21:15:00	23.4	6.2	0.5	943	13.3	1.1	42
10/7/2008	21:30:00	23.4	6.2	0.6	1063	13.6	1.2	43
10/7/2008	21:45:00	23.4	6.2	0.4	725	15.8	1.3	44
10/7/2008	22:00:00	23.4	6.2	0.5	1024	14.9	1.3	45
10/7/2008	22:15:00	23.4	6.2	0.4	852	15.4	1.3	46
10/7/2008	22:30:00	23.4	6.2	0.4	672	14.7	1.3	47
10/7/2008	22:45:00	23.4	6.2	0.4	748	15.5	1.3	48
10/7/2008	23:00:00	23.4	6.2	0.4	752	15.1	1.3	49
10/7/2008	23:15:00	23.4	6.2	0.5	864	12.6	1.1	50
10/7/2008	23:30:00	23.4	6.2	0.5	907	9	0.8	51
10/7/2008	23:45:00	23.4	6.2	0.5	884	8.8	0.8	52
10/8/2008	0:00:00	23.4	6.2	0.6	1161	9.4	0.8	53
10/8/2008	0:15:00	23.4	6.2	0.8	1459	7.2	0.6	54
10/8/2008	0:30:00	23.4	6.2	0.4	763	18.2	1.6	55

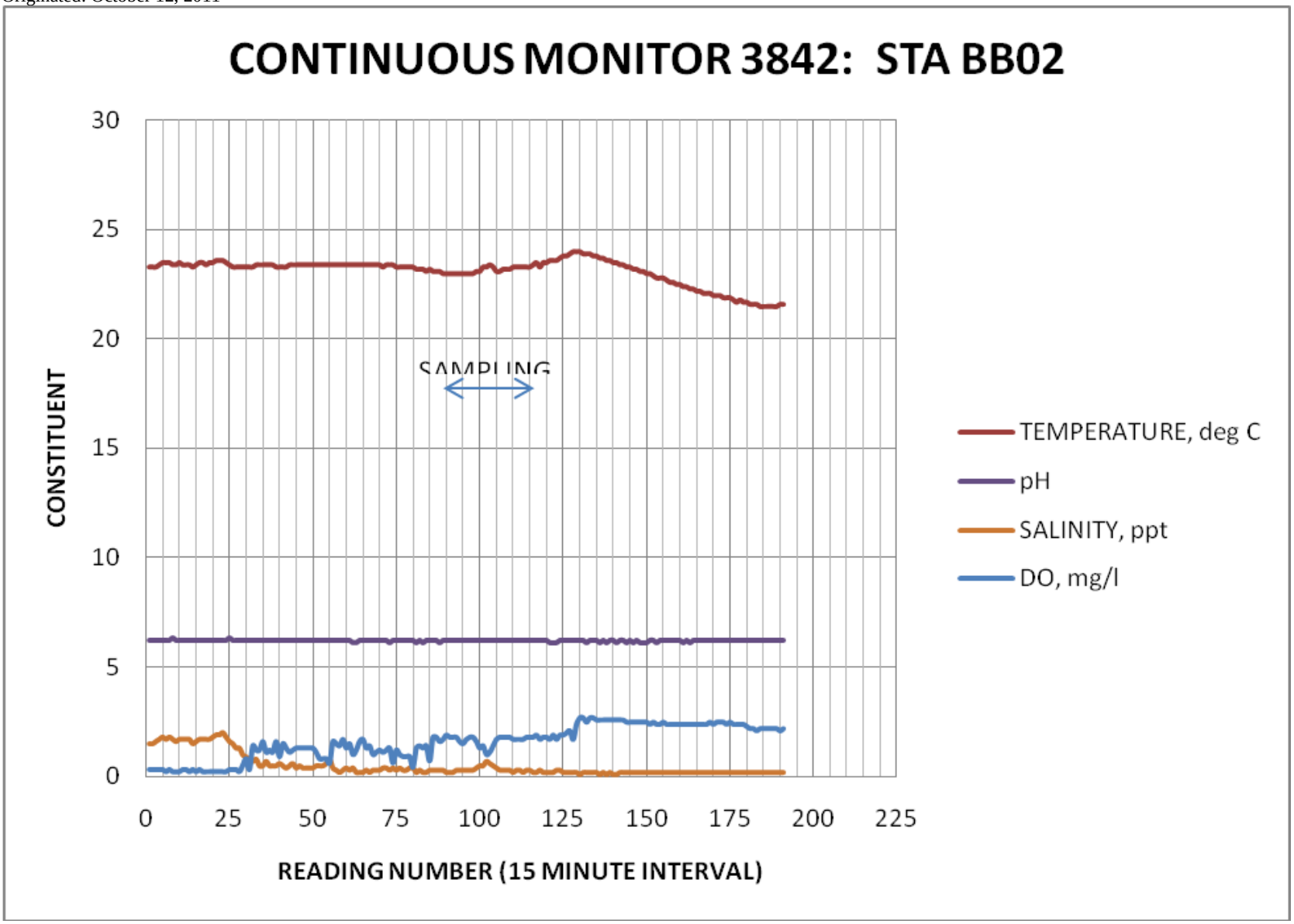
10/8/2008	0:45:00	23.4	6.2	0.3	658	17.3	1.5	56
10/8/2008	1:00:00	23.4	6.2	0.2	465	16.4	1.4	57
10/8/2008	1:15:00	23.4	6.2	0.3	634	20.2	1.7	58
10/8/2008	1:30:00	23.4	6.2	0.4	702	15.5	1.3	59
10/8/2008	1:45:00	23.4	6.2	0.3	614	17.6	1.5	60
10/8/2008	2:00:00	23.4	6.1	0.4	812	11.9	1	61
10/8/2008	2:15:00	23.4	6.1	0.2	335	14.3	1.2	62
10/8/2008	2:30:00	23.4	6.2	0.2	337	18.9	1.6	63
10/8/2008	2:45:00	23.4	6.2	0.2	467	19.7	1.7	64
10/8/2008	3:00:00	23.4	6.2	0.3	527	14.8	1.3	65
10/8/2008	3:15:00	23.4	6.2	0.2	429	16.3	1.4	66
10/8/2008	3:30:00	23.4	6.2	0.3	543	11.6	1	67
10/8/2008	3:45:00	23.4	6.2	0.3	502	12.3	1.1	68
10/8/2008	4:00:00	23.4	6.2	0.3	604	14.1	1.2	69
10/8/2008	4:15:00	23.3	6.2	0.4	697	13.4	1.1	70
10/8/2008	4:30:00	23.4	6.2	0.4	699	14.3	1.2	71
10/8/2008	4:45:00	23.4	6.1	0.3	585	15.5	1.3	72
10/8/2008	5:00:00	23.4	6.2	0.4	769	7.2	0.6	73
10/8/2008	5:15:00	23.3	6.2	0.3	608	14.2	1.2	74
10/8/2008	5:30:00	23.3	6.2	0.4	705	11.7	1	75
10/8/2008	5:45:00	23.3	6.2	0.3	606	10.8	0.9	76
10/8/2008	6:00:00	23.3	6.2	0.3	670	10.5	0.9	77
10/8/2008	6:15:00	23.3	6.2	0.4	750	10.5	0.9	78
10/8/2008	6:30:00	23.3	6.2	0.4	727	4.4	0.4	79
10/8/2008	6:45:00	23.2	6.1	0.2	467	15.1	1.3	80
10/8/2008	7:00:00	23.2	6.2	0.3	636	16.1	1.4	81
10/8/2008	7:15:00	23.2	6.1	0.2	475	15.5	1.3	82
10/8/2008	7:30:00	23.1	6.2	0.2	476	16.4	1.4	83
10/8/2008	7:45:00	23.2	6.2	0.3	663	7.7	0.7	84
10/8/2008	8:00:00	23.1	6.2	0.3	521	21.2	1.8	85
10/8/2008	8:15:00	23.1	6.2	0.3	597	20.9	1.8	86
10/8/2008	8:30:00	23.1	6.1	0.3	639	19.1	1.6	87
10/8/2008	8:45:00	23	6.2	0.3	584	19.9	1.7	88
10/8/2008	9:00:00	23	6.2	0.2	415	22.4	1.9	89
10/8/2008	9:15:00	23	6.2	0.2	392	20.8	1.8	90
10/8/2008	9:30:00	23	6.2	0.2	476	20.7	1.8	91
10/8/2008	9:45:00	23	6.2	0.3	490	21	1.8	92

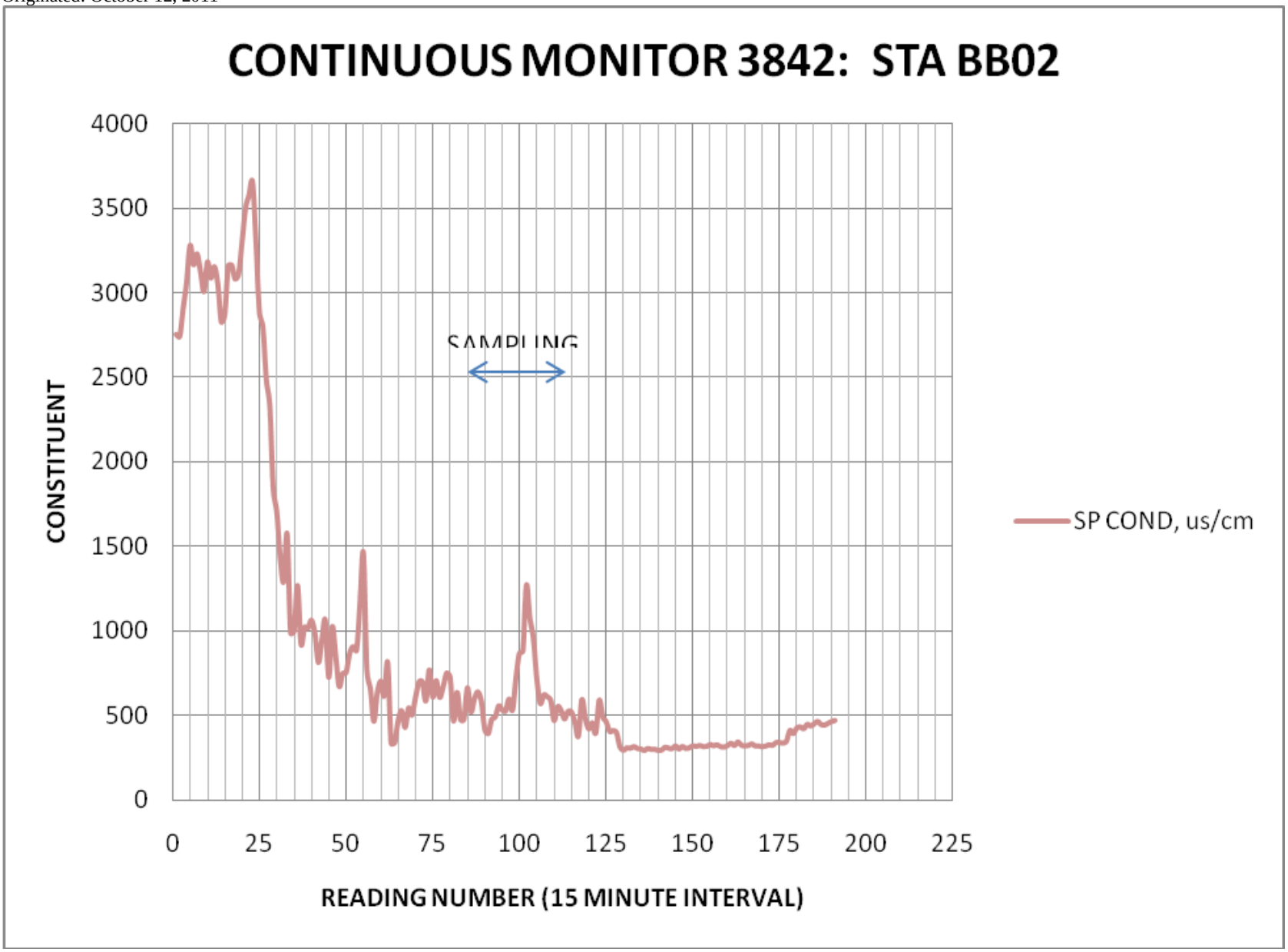
10/8/2008	10:00:00	23	6.2	0.3	556	18.2	1.6	93
10/8/2008	10:15:00	23	6.2	0.3	534	17.8	1.5	94
10/8/2008	10:30:00	23	6.2	0.3	525	19.3	1.7	95
10/8/2008	10:45:00	23	6.2	0.3	597	20.4	1.8	96
10/8/2008	11:00:00	23	6.2	0.3	531	21.5	1.8	97
10/8/2008	11:15:00	23.1	6.2	0.4	723	18.9	1.6	98
10/8/2008	11:30:00	23.1	6.2	0.5	868	15.7	1.3	99
10/8/2008	11:45:00	23.3	6.2	0.5	881	16.9	1.4	100
10/8/2008	12:00:00	23.3	6.2	0.7	1269	11.8	1	101
10/8/2008	12:15:00	23.4	6.2	0.6	1078	12.5	1.1	102
10/8/2008	12:30:00	23.3	6.2	0.5	956	16.6	1.4	103
10/8/2008	12:45:00	23.1	6.2	0.4	716	19.5	1.7	104
10/8/2008	13:00:00	23.1	6.2	0.3	571	20.4	1.8	105
10/8/2008	13:15:00	23.2	6.2	0.3	621	21.5	1.8	106
10/8/2008	13:30:00	23.2	6.2	0.3	610	20.8	1.8	107
10/8/2008	13:45:00	23.2	6.2	0.3	590	20.5	1.8	108
10/8/2008	14:00:00	23.3	6.2	0.2	469	19.6	1.7	109
10/8/2008	14:15:00	23.3	6.2	0.3	551	19.7	1.7	110
10/8/2008	14:30:00	23.3	6.2	0.3	529	20.3	1.7	111
10/8/2008	14:45:00	23.3	6.2	0.2	479	19.9	1.7	112
10/8/2008	15:00:00	23.3	6.2	0.3	523	20.7	1.8	113
10/8/2008	15:15:00	23.3	6.2	0.3	520	20.5	1.8	114
10/8/2008	15:30:00	23.4	6.2	0.2	458	20.8	1.8	115
10/8/2008	15:45:00	23.5	6.2	0.2	377	22.3	1.9	116
10/8/2008	16:00:00	23.3	6.2	0.3	593	19.4	1.7	117
10/8/2008	16:15:00	23.5	6.2	0.2	481	20.6	1.8	118
10/8/2008	16:30:00	23.5	6.2	0.2	420	21.1	1.8	119
10/8/2008	16:45:00	23.6	6.1	0.2	456	19.7	1.7	120
10/8/2008	17:00:00	23.6	6.1	0.2	396	22.7	1.9	121
10/8/2008	17:15:00	23.6	6.1	0.3	590	19.8	1.7	122
10/8/2008	17:30:00	23.7	6.2	0.3	492	23	1.9	123
10/8/2008	17:45:00	23.8	6.2	0.2	463	22.3	1.9	124
10/8/2008	18:00:00	23.8	6.2	0.2	405	24.2	2	125
10/8/2008	18:15:00	23.9	6.2	0.2	410	24.4	2.1	126
10/8/2008	18:30:00	24	6.2	0.2	398	20.5	1.7	127
10/8/2008	18:45:00	24	6.2	0.2	312	28.6	2.4	128
10/8/2008	19:00:00	24	6.2	0.1	294	32	2.7	129

10/8/2008	19:15:00	23.9	6.2	0.2	308	32	2.7	130
10/8/2008	19:30:00	23.9	6.1	0.2	305	29.5	2.5	131
10/8/2008	19:45:00	23.9	6.2	0.2	315	31.4	2.7	132
10/8/2008	20:00:00	23.8	6.2	0.2	304	32.4	2.7	133
10/8/2008	20:15:00	23.8	6.2	0.2	302	31	2.6	134
10/8/2008	20:30:00	23.7	6.1	0.1	292	30.9	2.6	135
10/8/2008	20:45:00	23.7	6.2	0.2	304	30.7	2.6	136
10/8/2008	21:00:00	23.6	6.1	0.1	299	30.6	2.6	137
10/8/2008	21:15:00	23.6	6.2	0.2	300	30.4	2.6	138
10/8/2008	21:30:00	23.5	6.2	0.1	293	30.7	2.6	139
10/8/2008	21:45:00	23.5	6.1	0.1	295	30	2.6	140
10/8/2008	22:00:00	23.4	6.2	0.2	311	30.1	2.6	141
10/8/2008	22:15:00	23.4	6.2	0.2	306	30.1	2.6	142
10/8/2008	22:30:00	23.3	6.1	0.2	303	29.9	2.5	143
10/8/2008	22:45:00	23.3	6.2	0.2	319	29.2	2.5	144
10/8/2008	23:00:00	23.2	6.1	0.2	301	29.3	2.5	145
10/8/2008	23:15:00	23.2	6.2	0.2	316	28.8	2.5	146
10/8/2008	23:30:00	23.1	6.1	0.2	304	29.3	2.5	147
10/8/2008	23:45:00	23.1	6.1	0.2	308	29.2	2.5	148
10/9/2008	0:00:00	23	6.1	0.2	320	28.9	2.5	149
10/9/2008	0:15:00	23	6.2	0.2	316	28.2	2.4	150
10/9/2008	0:30:00	22.9	6.2	0.2	322	28.6	2.5	151
10/9/2008	0:45:00	22.8	6.1	0.2	315	28.4	2.4	152
10/9/2008	1:00:00	22.8	6.2	0.2	316	28.2	2.4	153
10/9/2008	1:15:00	22.8	6.2	0.2	327	28.8	2.5	154
10/9/2008	1:30:00	22.7	6.2	0.2	320	28.3	2.4	155
10/9/2008	1:45:00	22.6	6.2	0.2	326	28.3	2.4	156
10/9/2008	2:00:00	22.6	6.2	0.2	315	28.1	2.4	157
10/9/2008	2:15:00	22.5	6.2	0.2	312	28	2.4	158
10/9/2008	2:30:00	22.5	6.2	0.2	321	28	2.4	159
10/9/2008	2:45:00	22.4	6.1	0.2	335	27.8	2.4	160
10/9/2008	3:00:00	22.4	6.2	0.2	322	27.5	2.4	161
10/9/2008	3:15:00	22.3	6.1	0.2	342	27.4	2.4	162
10/9/2008	3:30:00	22.3	6.2	0.2	324	27.3	2.4	163
10/9/2008	3:45:00	22.2	6.2	0.2	319	27.9	2.4	164
10/9/2008	4:00:00	22.2	6.2	0.2	322	27.3	2.4	165
10/9/2008	4:15:00	22.1	6.2	0.2	331	27.7	2.4	166

10/9/2008	4:30:00	22.1	6.2	0.2	319	27.6	2.4	167
10/9/2008	4:45:00	22.1	6.2	0.2	319	28.3	2.5	168
10/9/2008	5:00:00	22	6.2	0.2	314	27.8	2.4	169
10/9/2008	5:15:00	22	6.2	0.2	318	28.1	2.5	170
10/9/2008	5:30:00	22	6.2	0.2	326	28.2	2.5	171
10/9/2008	5:45:00	21.9	6.2	0.2	323	28.2	2.5	172
10/9/2008	6:00:00	21.9	6.2	0.2	339	27.7	2.4	173
10/9/2008	6:15:00	21.9	6.2	0.2	339	28	2.5	174
10/9/2008	6:30:00	21.8	6.2	0.2	336	27.8	2.4	175
10/9/2008	6:45:00	21.7	6.2	0.2	347	27.3	2.4	176
10/9/2008	7:00:00	21.8	6.2	0.2	410	27	2.4	177
10/9/2008	7:15:00	21.7	6.2	0.2	392	26.7	2.4	178
10/9/2008	7:30:00	21.7	6.2	0.2	425	25.9	2.3	179
10/9/2008	7:45:00	21.6	6.2	0.2	431	25.1	2.2	180
10/9/2008	8:00:00	21.6	6.2	0.2	421	25.4	2.2	181
10/9/2008	8:15:00	21.6	6.2	0.2	447	24.2	2.1	182
10/9/2008	8:30:00	21.5	6.2	0.2	437	24.5	2.2	183
10/9/2008	8:45:00	21.5	6.2	0.2	450	24.8	2.2	184
10/9/2008	9:00:00	21.5	6.2	0.2	464	25	2.2	185
10/9/2008	9:15:00	21.5	6.2	0.2	446	24.8	2.2	186
10/9/2008	9:30:00	21.5	6.2	0.2	442	25.1	2.2	187
10/9/2008	9:45:00	21.5	6.2	0.2	453	24.7	2.2	188
10/9/2008	10:00:00	21.6	6.2	0.2	463	23.9	2.1	189
10/9/2008	10:15:00	21.6	6.2	0.2	470	24.9	2.2	190

	Temp ?C	pH Units	Sal ppt	SpCond ?S/cm	LDO% Sat	LDO mg/l
SAMPLING PERIOD AVG	23.10	6.20	0.35	661.00	18.47	1.58
SAMPLING PERIOD MIN	23.00	6.10	0.20	392.00	7.70	0.70
SAMPLING PERIOD MAX	23.40	6.20	0.70	1269.00	22.40	1.90
OVERALL AVERAGE	23.10	6.19	0.50	937.51	18.25	1.57
OVERALL MINIMUM	21.50	6.10	0.10	292.00	2.60	0.20
OVERALL MAXIMUM	24.00	6.30	2.00	3657.00	32.40	2.70


CONTINUOUS MONITOR 3842: STA BB02
CONSTITUENT
30
25
20
15
10
5
0
SAMPLING
0
25
50
75
100
125
150
175
200
225
READING NUMBER (15 MINUTE INTERVAL)
TEMPERATURE, deg C
pH
SALINITY, ppt
DO, mg/l


CONTINUOUS MONITOR 3842: STA BB02
CONSTITUENT
4000
3500
3000
2500
2000
1500
1000
500
0
0
25
50
75
100
125
150
175
200
225
READING NUMBER (15 MINUTE INTERVAL)
SAMPLING
SP COND, us/cm

CONTINUOUS MONITOR 3843: STA BB03

MiniSonde 5 42499
Log File Name : 3843 BB03
Setup Date (M/D/YYYY) : 10/7/2008
Setup Time (HH:MM:SS) : 08:50:23
Starting Date (M/D/YYYY) : 10/7/2008
Starting Time (HH:MM:SS) : 09:30:00
Stopping Date (M/D/YYYY) : 10/10/2008
Stopping Time (HH:MM:SS) : 13:00:00
Interval (HH:MM:SS) : 00:15:00
Sensor warmup (HH:MM:SS) : 00:00:30
Circltr warmup (HH:MM:SS) : 00:00:30

Date M/D/YYYY	Time HH:MM:SS	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l	READING NUMBER
10/7/2008	11:00:00	22.1	5.9	0	95	32.6	2.9	0
10/7/2008	11:15:00	22.1	5.9	0	95	32.8	2.9	1
10/7/2008	11:30:00	22.1	5.9	0	95	33.4	2.9	2
10/7/2008	11:45:00	22.1	5.9	0	95	33.9	3	3
10/7/2008	12:00:00	22.2	5.9	0	95	34.4	3	4
10/7/2008	12:15:00	22.2	5.9	0	95	35.1	3.1	5
10/7/2008	12:30:00	22.3	5.9	0	95	36.3	3.2	6
10/7/2008	12:45:00	22.4	5.9	0	95	37	3.2	7
10/7/2008	13:00:00	22.4	5.9	0	96	37.9	3.3	8
10/7/2008	13:15:00	22.5	6	0	95	39.2	3.4	9
10/7/2008	13:30:00	22.6	5.9	0	95	40.8	3.5	10
10/7/2008	13:45:00	22.7	6	0	95	42.5	3.7	11
10/7/2008	14:00:00	22.8	6	0	95	44.3	3.8	12
10/7/2008	14:15:00	22.9	6	0	95	44.9	3.9	13
10/7/2008	14:30:00	22.9	6	0	96	45.9	3.9	14
10/7/2008	14:45:00	23	6	0	96	46.6	4	15
10/7/2008	15:00:00	23	6	0	99	47.3	4.1	16
10/7/2008	15:15:00	23.1	6	0	96	48.5	4.2	17
10/7/2008	15:30:00	23.2	6	0	97	49	4.2	18

10/7/2008	15:45:00	23.2	6	0	95	49.4	4.2	19
10/7/2008	16:00:00	23.2	6	0	96	50	4.3	20
10/7/2008	16:15:00	23.2	6	0	96	50.2	4.3	21
10/7/2008	16:30:00	23.2	6	0	95	50.5	4.3	22
10/7/2008	16:45:00	23.2	6	0	96	50.6	4.3	23
10/7/2008	17:00:00	23.2	6	0	95	50.1	4.3	24
10/7/2008	17:15:00	23.2	6	0	95	49.2	4.2	25
10/7/2008	17:30:00	23.1	6	0	95	48.7	4.2	26
10/7/2008	17:45:00	23	6	0	94	51.2	4.4	27
10/7/2008	18:00:00	23	6	0	94	51	4.4	28
10/7/2008	18:15:00	22.9	6	0	94	50.5	4.3	29
10/7/2008	18:30:00	22.9	6	0	94	49.4	4.3	30
10/7/2008	18:45:00	22.9	6	0	94	48.4	4.2	31
10/7/2008	19:00:00	22.8	6	0	94	47.9	4.1	32
10/7/2008	19:15:00	22.8	6	0	95	48	4.1	33
10/7/2008	19:30:00	22.8	6	0	94	47	4.1	34
10/7/2008	19:45:00	22.8	6	0	95	46.7	4	35
10/7/2008	20:00:00	22.7	6	0	94	46.3	4	36
10/7/2008	20:15:00	22.7	6	0	94	46.1	4	37
10/7/2008	20:30:00	22.7	6	0	95	45.7	3.9	38
10/7/2008	20:45:00	22.7	6	0	95	45.5	3.9	39
10/7/2008	21:00:00	22.7	6	0	95	45.4	3.9	40
10/7/2008	21:15:00	22.7	6	0	95	45.1	3.9	41
10/7/2008	21:30:00	22.7	6	0	95	44.4	3.8	42
10/7/2008	21:45:00	22.7	6	0	95	43.9	3.8	43
10/7/2008	22:00:00	22.7	6	0	95	44.2	3.8	44
10/7/2008	22:15:00	22.7	6	0	94	43.6	3.8	45
10/7/2008	22:30:00	22.7	6	0	95	43.9	3.8	46
10/7/2008	22:45:00	22.7	6	0	95	43.8	3.8	47
10/7/2008	23:00:00	22.6	6	0	94	43.4	3.7	48
10/7/2008	23:15:00	22.6	6	0	95	42.6	3.7	49
10/7/2008	23:30:00	22.6	6	0	95	42.4	3.7	50
10/7/2008	23:45:00	22.6	6	0	94	42.2	3.6	51
10/8/2008	0:00:00	22.6	5.9	0	94	42.4	3.7	52
10/8/2008	0:15:00	22.6	6	0	94	41.6	3.6	53
10/8/2008	0:30:00	22.6	5.9	0	94	40.9	3.5	54
10/8/2008	0:45:00	22.6	5.9	0	94	40.4	3.5	55

10/8/2008	1:00:00	22.5	5.9	0	94	40.5	3.5	56
10/8/2008	1:15:00	22.5	5.9	0	94	39.7	3.4	57
10/8/2008	1:30:00	22.5	5.9	0	94	38.9	3.4	58
10/8/2008	1:45:00	22.5	5.9	0	94	38.6	3.3	59
10/8/2008	2:00:00	22.5	5.9	0	94	38.4	3.3	60
10/8/2008	2:15:00	22.4	5.9	0	94	37.4	3.2	61
10/8/2008	2:30:00	22.4	5.9	0	94	37.3	3.2	62
10/8/2008	2:45:00	22.4	5.9	0	94	36.8	3.2	63
10/8/2008	3:00:00	22.4	5.9	0	94	36.6	3.2	64
10/8/2008	3:15:00	22.4	5.9	0	94	36.1	3.1	65
10/8/2008	3:30:00	22.3	5.9	0	94	35.4	3.1	66
10/8/2008	3:45:00	22.3	5.9	0	94	34.6	3	67
10/8/2008	4:00:00	22.3	5.9	0	94	34.5	3	68
10/8/2008	4:15:00	22.3	5.9	0	95	33.9	3	69
10/8/2008	4:30:00	22.2	5.9	0	94	33.6	2.9	70
10/8/2008	4:45:00	22.2	5.9	0	94	33.2	2.9	71
10/8/2008	5:00:00	22.2	5.9	0	94	32.2	2.8	72
10/8/2008	5:15:00	22.2	5.9	0	94	32.5	2.8	73
10/8/2008	5:30:00	22.2	5.9	0	94	32	2.8	74
10/8/2008	5:45:00	22.1	5.9	0	94	31.6	2.8	75
10/8/2008	6:00:00	22.1	5.9	0	94	31.1	2.7	76
10/8/2008	6:15:00	22	5.9	0	95	30.7	2.7	77
10/8/2008	6:30:00	22	5.9	0	94	29.9	2.6	78
10/8/2008	6:45:00	21.9	5.9	0	94	29.5	2.6	79
10/8/2008	7:00:00	21.9	5.9	0	94	29.3	2.6	80
10/8/2008	7:15:00	21.8	5.9	0	94	28.6	2.5	81
10/8/2008	7:30:00	21.8	5.9	0	94	28.3	2.5	82
10/8/2008	7:45:00	21.7	5.9	0	94	28.1	2.5	83
10/8/2008	8:00:00	21.7	5.9	0	94	27.4	2.4	84
10/8/2008	8:15:00	21.6	5.9	0	94	26.7	2.4	85
10/8/2008	8:30:00	21.6	5.9	0	94	27.1	2.4	86
10/8/2008	8:45:00	21.5	5.9	0	95	27.3	2.4	87
10/8/2008	9:00:00	21.5	5.9	0	95	27.3	2.4	88
10/8/2008	9:15:00	21.5	5.9	0	95	28	2.5	89
10/8/2008	9:30:00	21.5	6	0	95	27.7	2.5	90
10/8/2008	9:45:00	21.4	6	0	95	27.8	2.5	91
10/8/2008	10:00:00	21.4	6	0	95	27.8	2.5	92

10/8/2008	10:15:00	21.4	6	0	96	29.1	2.6	93
10/8/2008	10:30:00	21.5	6	0	95	29.7	2.6	94
10/8/2008	10:45:00	21.5	6	0	96	29.2	2.6	95
10/8/2008	11:00:00	21.6	6	0	96	30.4	2.7	96
10/8/2008	11:15:00	21.7	6	0	96	31.5	2.8	97
10/8/2008	11:30:00	21.9	6	0	96	33	2.9	98
10/8/2008	11:45:00	21.9	6	0	96	33.7	3	99
10/8/2008	12:00:00	21.9	6	0	96	34.9	3.1	100
10/8/2008	12:15:00	21.9	6	0	97	34.8	3.1	101
10/8/2008	12:30:00	21.9	6	0	97	34.9	3.1	102
10/8/2008	12:45:00	21.8	6	0	97	35.4	3.1	103
10/8/2008	13:00:00	21.9	6	0	97	35.8	3.1	104
10/8/2008	13:15:00	21.9	6	0	98	37.6	3.3	105
10/8/2008	13:30:00	22	6	0	98	39	3.4	106
10/8/2008	13:45:00	22.2	6	0	98	39.7	3.5	107
10/8/2008	14:00:00	22.3	6	0	99	41.1	3.6	108
10/8/2008	14:15:00	22.5	6	0	99	43.3	3.8	109
10/8/2008	14:30:00	22.7	6	0	99	46.4	4	110
10/8/2008	14:45:00	22.8	6	0	99	48	4.1	111
10/8/2008	15:00:00	22.9	6	0	99	48.6	4.2	112
10/8/2008	15:15:00	23	6	0	100	49.4	4.2	113
10/8/2008	15:30:00	23.1	6	0	100	51.9	4.4	114
10/8/2008	15:45:00	23.2	6	0	99	52.9	4.5	115
10/8/2008	16:00:00	23.3	6.1	0	100	54.1	4.6	116
10/8/2008	16:15:00	23.4	6.1	0	100	55.2	4.7	117
10/8/2008	16:30:00	23.5	6.1	0	100	55	4.7	118
10/8/2008	16:45:00	23.5	6.1	0	99	55.6	4.7	119
10/8/2008	17:00:00	23.4	6	0	99	55.3	4.7	120
10/8/2008	17:15:00	23.4	6	0	99	55.1	4.7	121
10/8/2008	17:30:00	23.2	6	0	99	54.4	4.7	122
10/8/2008	17:45:00	23.1	6	0	99	52.6	4.5	123
10/8/2008	18:00:00	23	6	0	99	50.7	4.4	124
10/8/2008	18:15:00	22.9	6	0	99	49.4	4.3	125
10/8/2008	18:30:00	22.8	6	0	99	48.9	4.2	126
10/8/2008	18:45:00	22.7	6	0	98	46.9	4	127
10/8/2008	19:00:00	22.6	6	0	99	45.5	3.9	128
10/8/2008	19:15:00	22.5	6	0	99	45.2	3.9	129

10/8/2008	19:30:00	22.4	6	0	98	44	3.8	130
10/8/2008	19:45:00	22.3	6	0	99	42.9	3.7	131
10/8/2008	20:00:00	22.2	6	0	98	42.9	3.7	132
10/8/2008	20:15:00	22.1	6	0	98	42.8	3.7	133
10/8/2008	20:30:00	22	6	0	99	42.2	3.7	134
10/8/2008	20:45:00	22	6	0	98	42.5	3.7	135
10/8/2008	21:00:00	21.9	6	0	99	42.1	3.7	136
10/8/2008	21:15:00	21.8	6	0	99	39.6	3.5	137
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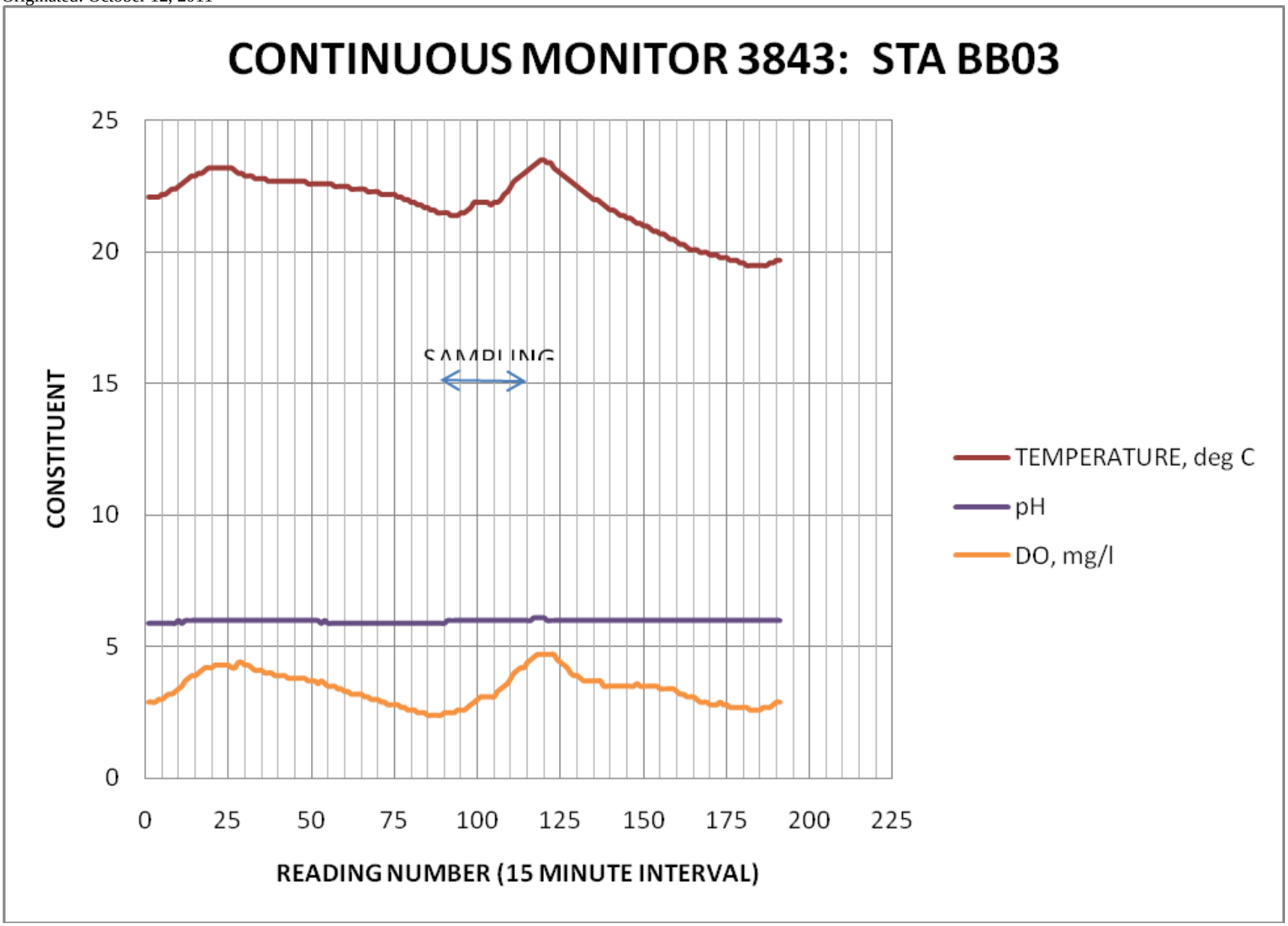
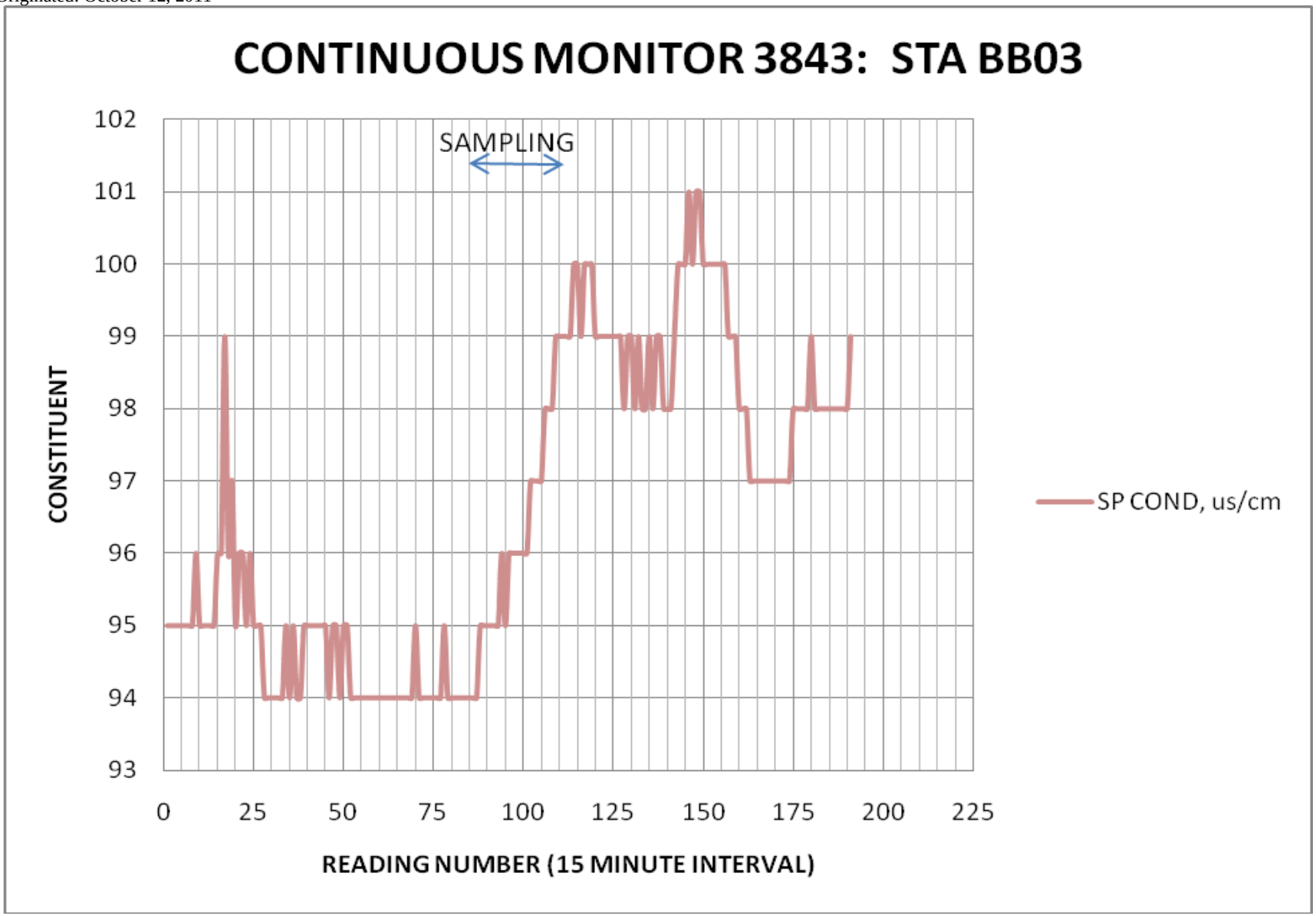
10/8/2008	21:45:00	21.6	6	0	98	39.9	3.5	139
10/8/2008	22:00:00	21.6	6	0	98	39.6	3.5	140
10/8/2008	22:15:00	21.5	6	0	99	39.4	3.5	141
10/8/2008	22:30:00	21.4	6	0	100	39.2	3.5	142
10/8/2008	22:45:00	21.4	6	0	100	39.6	3.5	143
10/8/2008	23:00:00	21.3	6	0	100	39.2	3.5	144
10/8/2008	23:15:00	21.3	6	0	101	39.3	3.5	145
10/8/2008	23:30:00	21.2	6	0	100	39.8	3.5	146
10/8/2008	23:45:00	21.1	6	0	101	40.2	3.6	147
10/9/2008	0:00:00	21.1	6	0	101	39.4	3.5	148
10/9/2008	0:15:00	21	6	0	100	38.8	3.5	149
10/9/2008	0:30:00	21	6	0	100	39.7	3.5	150
10/9/2008	0:45:00	20.9	6	0	100	38.9	3.5	151
10/9/2008	1:00:00	20.8	6	0	100	38.8	3.5	152
10/9/2008	1:15:00	20.8	6	0	100	38.5	3.5	153
10/9/2008	1:30:00	20.7	6	0	100	38.2	3.4	154
10/9/2008	1:45:00	20.7	6	0	100	38	3.4	155
10/9/2008	2:00:00	20.6	6	0	99	37.7	3.4	156
10/9/2008	2:15:00	20.5	6	0	99	38.2	3.4	157
10/9/2008	2:30:00	20.5	6	0	99	37.3	3.4	158
10/9/2008	2:45:00	20.4	6	0	98	36.5	3.3	159
10/9/2008	3:00:00	20.3	6	0	98	35.8	3.2	160
10/9/2008	3:15:00	20.3	6	0	98	35.5	3.2	161
10/9/2008	3:30:00	20.2	6	0	97	34.6	3.1	162
10/9/2008	3:45:00	20.1	6	0	97	34	3.1	163
10/9/2008	4:00:00	20.1	6	0	97	33.6	3.1	164
10/9/2008	4:15:00	20.1	6	0	97	33.1	3	165
10/9/2008	4:30:00	20	6	0	97	32.4	2.9	166

10/9/2008	4:45:00	20	6	0	97	31.6	2.9	167
10/9/2008	5:00:00	20	6	0	97	31.7	2.9	168
10/9/2008	5:15:00	19.9	6	0	97	31.2	2.8	169
10/9/2008	5:30:00	19.9	6	0	97	31.2	2.8	170
10/9/2008	5:45:00	19.9	6	0	97	31	2.8	171
10/9/2008	6:00:00	19.8	6	0	97	31.3	2.9	172
10/9/2008	6:15:00	19.8	6	0	97	30.8	2.8	173
10/9/2008	6:30:00	19.8	6	0	98	30.5	2.8	174
10/9/2008	6:45:00	19.7	6	0	98	29.9	2.7	175
10/9/2008	7:00:00	19.7	6	0	98	29.6	2.7	176
10/9/2008	7:15:00	19.7	6	0	98	29.5	2.7	177
10/9/2008	7:30:00	19.6	6	0	98	29.5	2.7	178
10/9/2008	7:45:00	19.6	6	0	99	29	2.7	179
10/9/2008	8:00:00	19.5	6	0	98	29.5	2.7	180
10/9/2008	8:15:00	19.5	6	0	98	28.2	2.6	181
10/9/2008	8:30:00	19.5	6	0	98	28.4	2.6	182
10/9/2008	8:45:00	19.5	6	0	98	28.1	2.6	183
10/9/2008	9:00:00	19.5	6	0	98	28	2.6	184
10/9/2008	9:15:00	19.5	6	0	98	29	2.7	185
10/9/2008	9:30:00	19.5	6	0	98	29.5	2.7	186
10/9/2008	9:45:00	19.6	6	0	98	29.7	2.7	187
10/9/2008	10:00:00	19.6	6	0	98	30.1	2.8	188
10/9/2008	10:15:00	19.7	6	0	98	31.3	2.9	189
10/9/2008	10:30:00	19.7	6	0	99	31.5	2.9	190

	Temp °C	pH Units	Sal ppt	SpCond µS/cm	LDO% Sat	LDO mg/l
SAMPLING PERIOD AVG	21.66	5.97	0.00	95.61	30.66	2.72
SAMPLING PERIOD MIN	21.40	5.90	0.00	94.00	26.70	2.40
SAMPLING PERIOD MAX	21.90	6.00	0.00	98.00	37.60	3.30
OVERALL AVERAGE	21.86	5.98	0.00	96.55	38.95	3.41
OVERALL MINIMUM	19.50	5.90	0.00	94.00	26.70	2.40
OVERALL MAXIMUM	23.50	6.10	0.00	101.00	55.60	4.70


CONTINUOUS MONITOR 3843: STA BB03
CONSTITUENT
25
20
15
10
5
0
0
25
50
75
100
125
150
175
200
225
READING NUMBER (15 MINUTE INTERVAL)
TEMPERATURE, deg C
pH
DO, mg/l


CONTINUOUS MONITOR 3843: STA BB03
SAMPLING
CONSTITUENT
102
101
100
99
98
97
96
95
94
93
0
25
50
75
100
125
150
175
200
225
READING NUMBER (15 MINUTE INTERVAL)
SP COND, us/cm

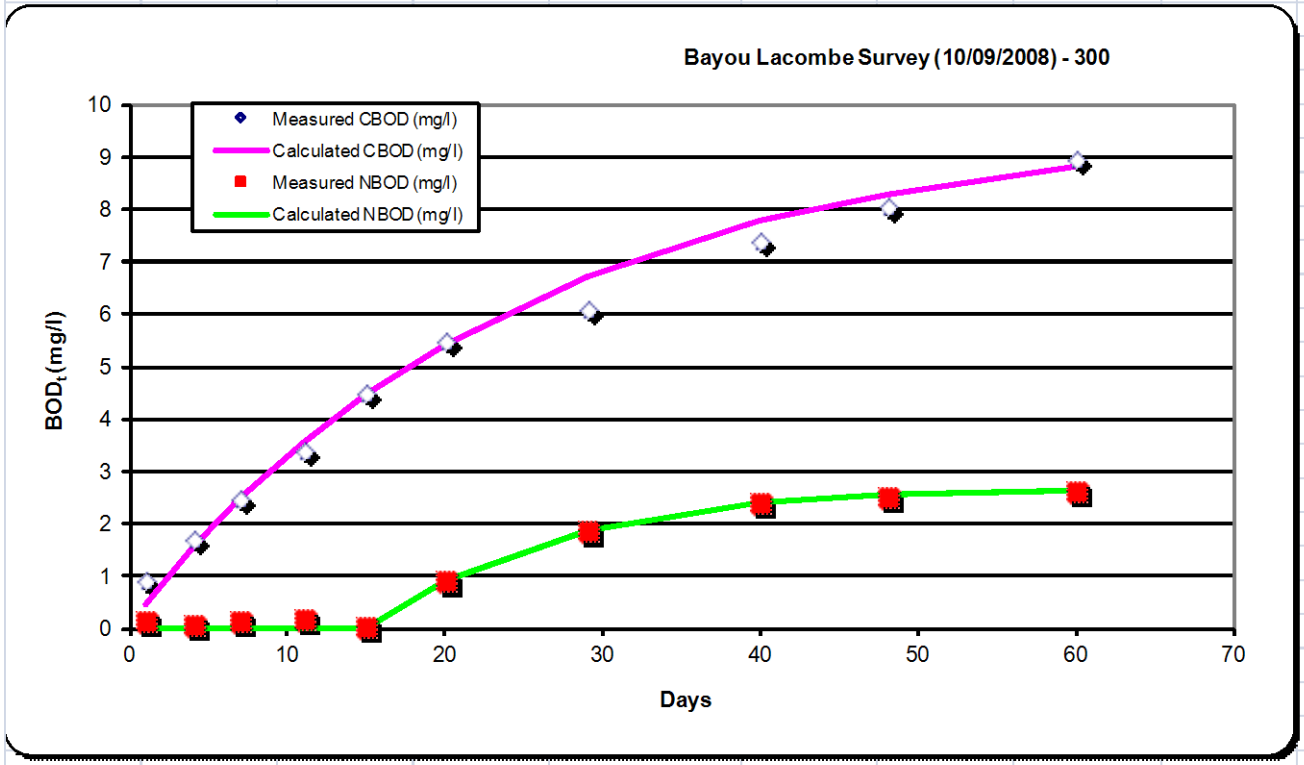
Appendix F5 – BOD Calculations

1 Component			NBOD			CBOD	
Site ID	RKM	UBOD (mg/l)	k rate (1/day)	Lag time (days)	UBOD (mg/l)	k rate (1/day)	Lag time (days)
Bayou Lacombe Survey (10/09/2008) - 300	10.9	2.690	0.089	15.361	9.511	0.041	0.000
Bayou Lacombe Survey (10/09/2008) - 1250	25.2	0.023	0.595	0.000	1.318	0.031	3.500
Bayou Lacombe Survey (10/09/2008) - 2270	31.0	0.000	0.005	0.000	1.530	0.034	5.833
Bayou Lacombe Survey (10/09/2008) - 3690	20.3	0.388	0.041	25.167	2.393	0.038	0.292
Bayou Lacombe Survey (10/09/2008) - 3691	tributary	0.137	0.554	19.269	3.887	0.044	3.500
Bayou Lacombe Survey (10/09/2008) - 3692	18.9	0.073	0.070	25.167	2.424	0.029	0.883
Bayou Lacombe Survey (10/09/2008) - 3693	13.2	2.799	0.052	19.299	8.253	0.045	0.000
Bayou Lacombe Survey (10/09/2008) - 3694	0.3	3.202	0.042	15.944	11.159	0.049	0.000
Bayou Lacombe Survey (10/09/2008) - 3695	8.7	2.761	0.129	13.174	10.724	0.048	0.000
Bayou Lacombe Survey (10/09/2008) - 3696	0.2	1.337	0.080	24.077	9.958	0.054	0.000
Bayou Lacombe Survey (10/09/2008) - 3697	6.1	1.388	0.064	22.745	9.975	0.051	0.000
Bayou Lacombe Survey (10/09/2008) - 3698	0.3	1.679	0.101	12.736	7.190	0.063	0.000
Bayou Lacombe Survey (10/09/2008) - 3699	Lake Pont.	1.166	0.105	13.465	5.012	0.063	0.000
Bayou Lacombe Survey (10/09/2008) - 3842	2.0	0.492	0.106	19.943	5.801	0.053	0.000
Bayou Lacombe Survey (10/09/2008) - 3882	2.9	2.086	0.054	24.977	19.930	0.052	0.000
Bayou Lacombe Survey (10/09/2008) - 3883	4.9	2.553	0.136	10.014	16.385	0.069	0.000
Bayou Lacombe Survey (10/09/2008) - AI31079	facility	8.899	0.170	3.451	21.577	0.029	1.750

Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

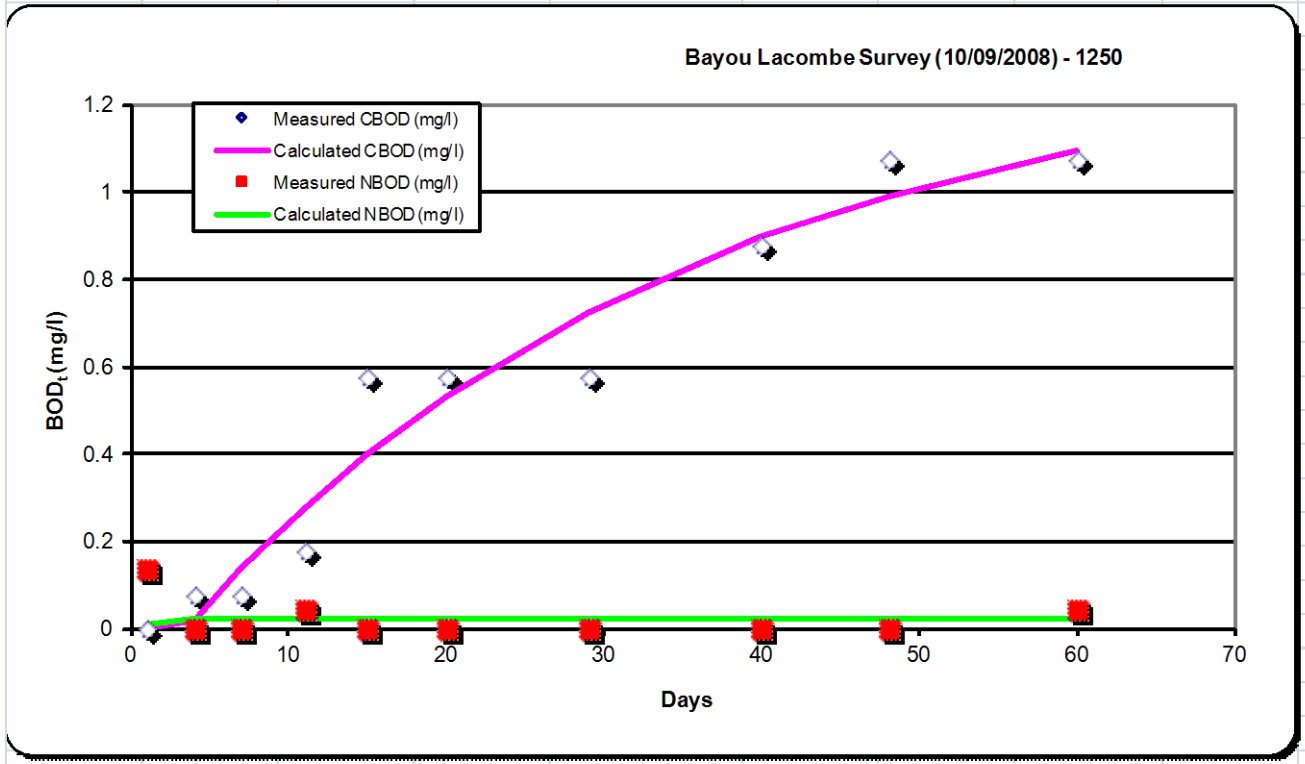
	NBOD	CBOD
UBOD (mg/l)	2.6904817	9.5106468
k rate (1/day)	0.0886458	0.0405208
Lag time (days)	15.361111	0



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

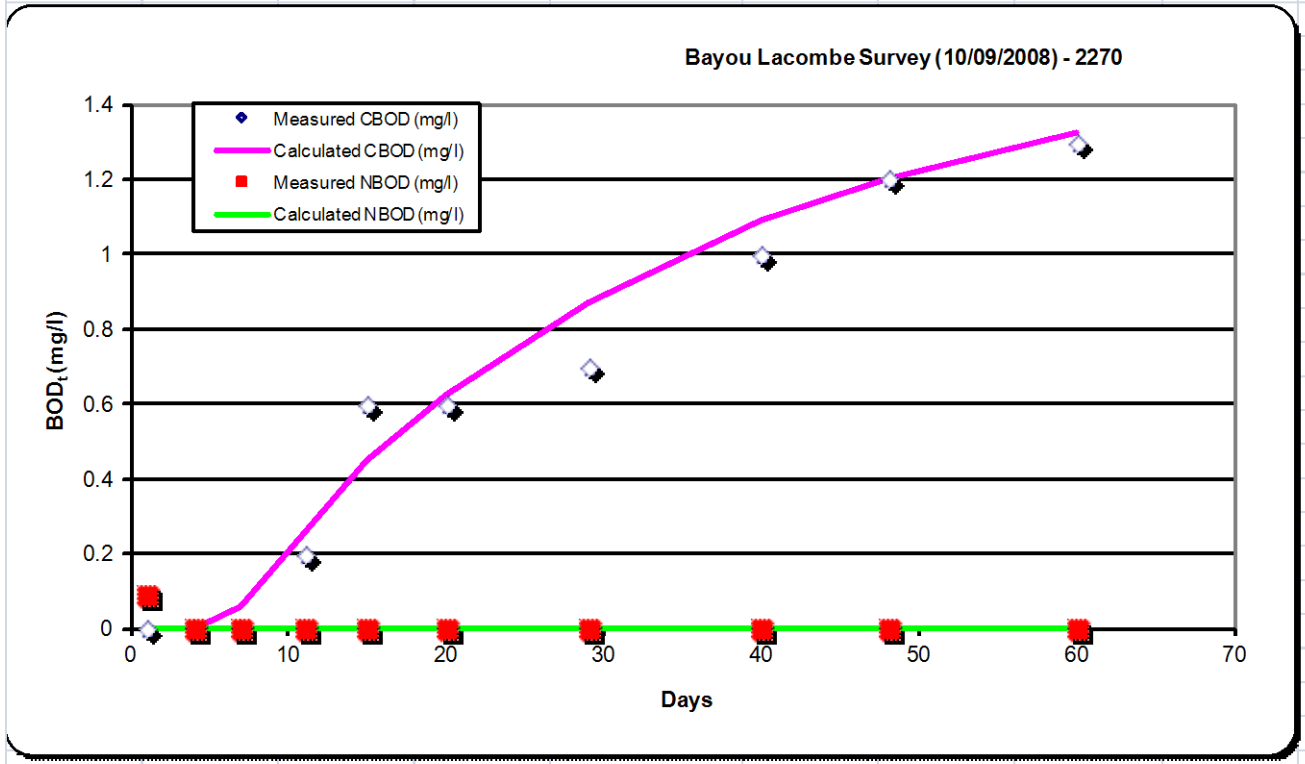
	NBOD	CBOD
UBOD (mg/l)	0.02285	1.3177633
k rate (1/day)	0.5950994	0.0313542
Lag time (days)	0	3.5



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

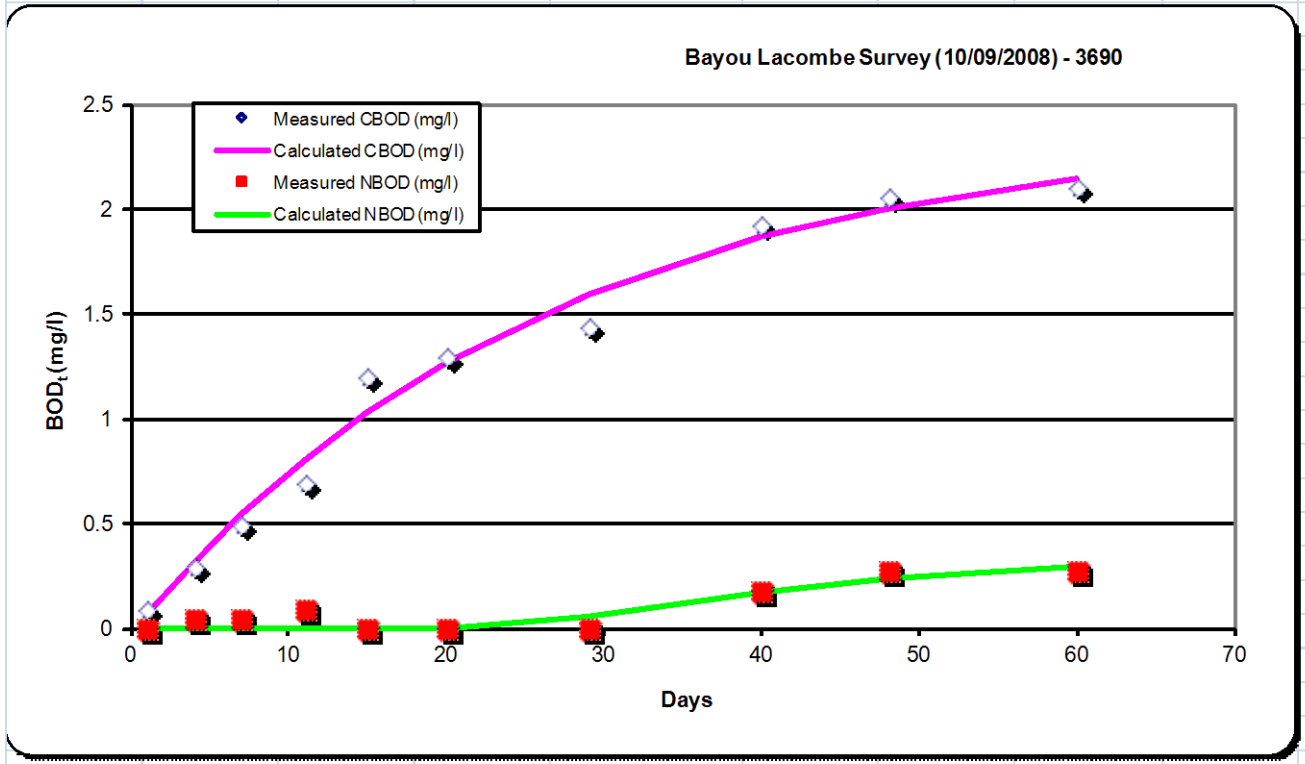
	NBOD	CBOD
UBOD (mg/l)	0	1.5302083
k rate (1/day)	0.005	0.0336458
Lag time (days)	0	5.8333335



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

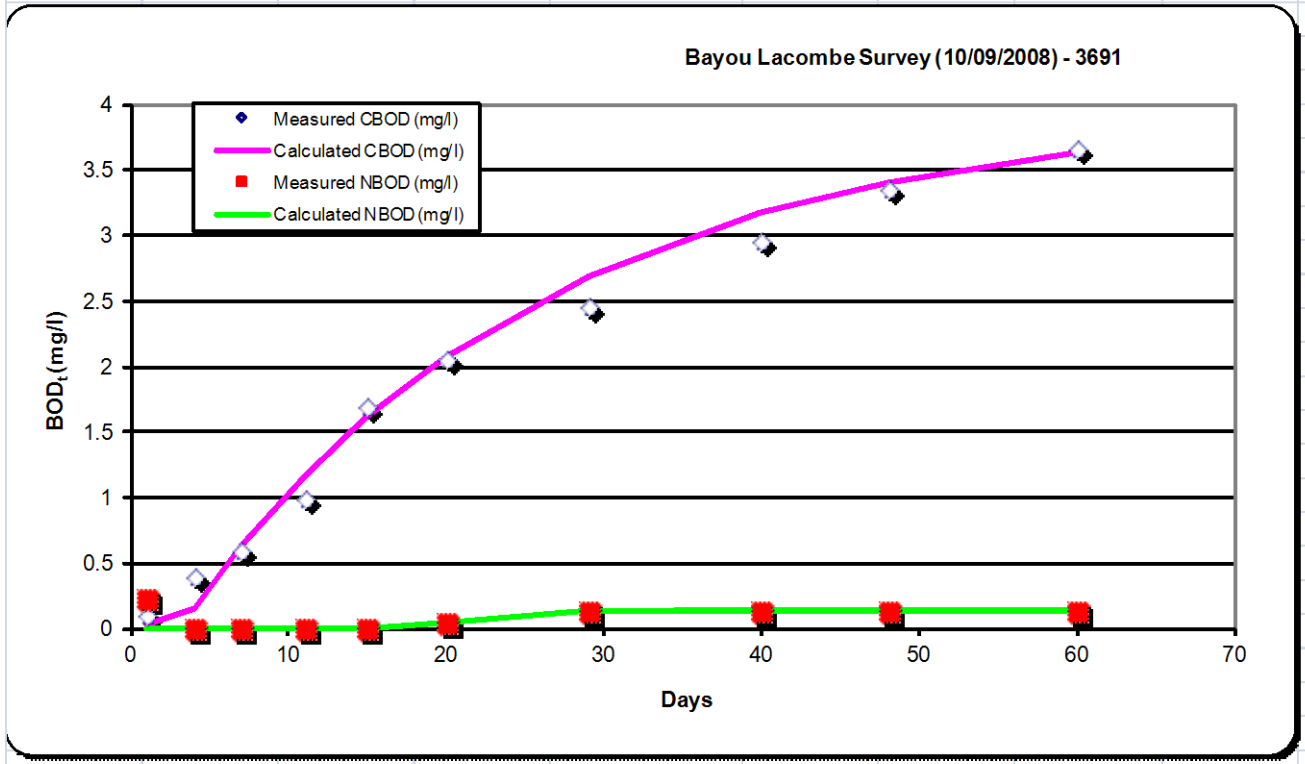
	NBOD	CBOD
UBOD (mg/l)	0.3881436	2.3931942
k rate (1/day)	0.040783	0.0382292
Lag time (days)	25.16715	0.2916667



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

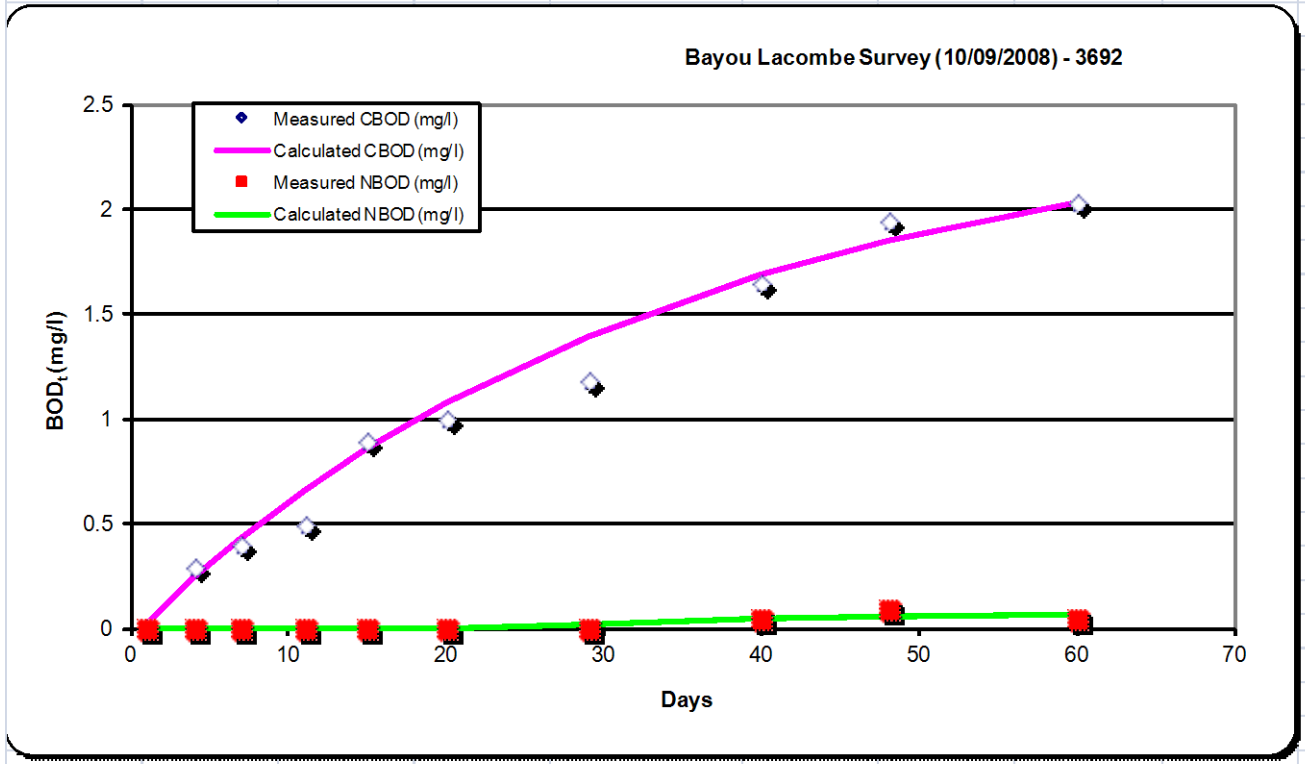
	NBOD	CBOD
UBOD (mg/l)	0.1372675	3.887414
k rate (1/day)	0.5536155	0.0435764
Lag time (days)	19.268904	3.5



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

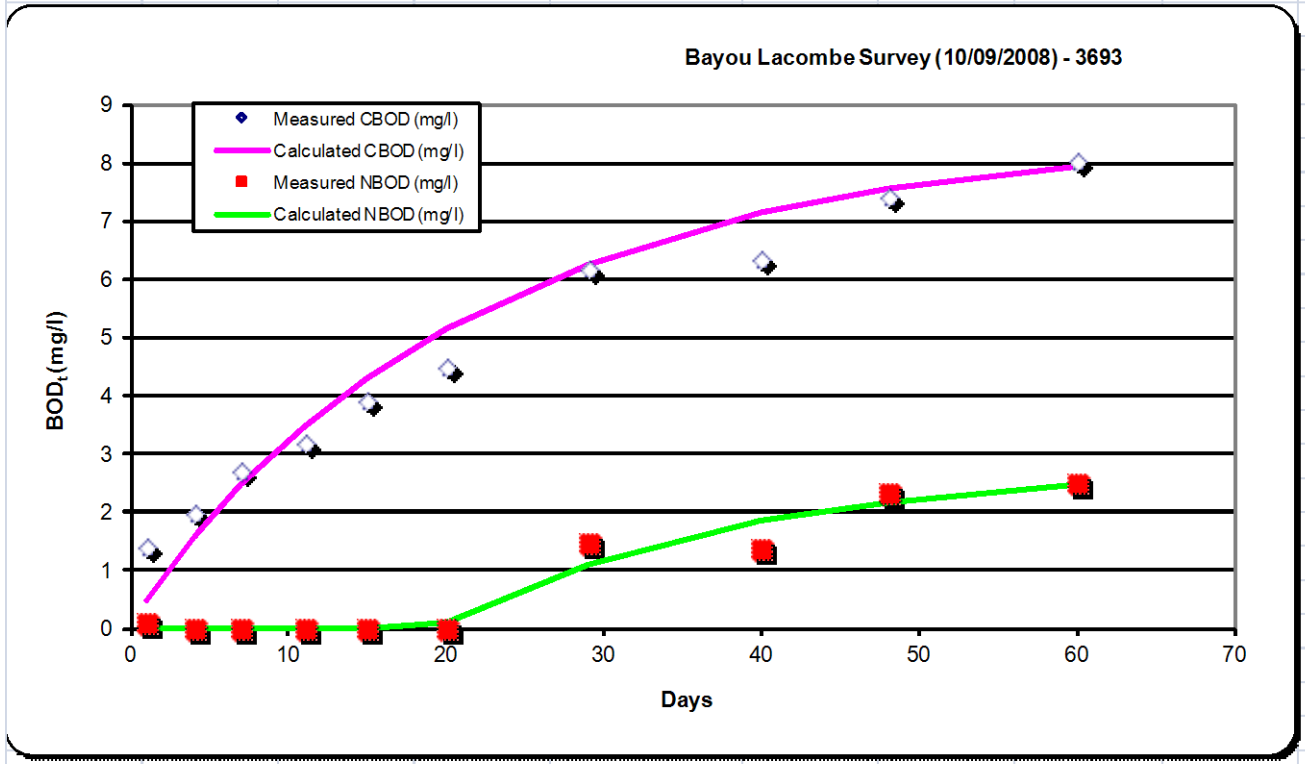
	NBOD	CBOD
UBOD (mg/l)	0.072936	2.4235449
k rate (1/day)	0.0695618	0.0292535
Lag time (days)	25.16715	0.8831018



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

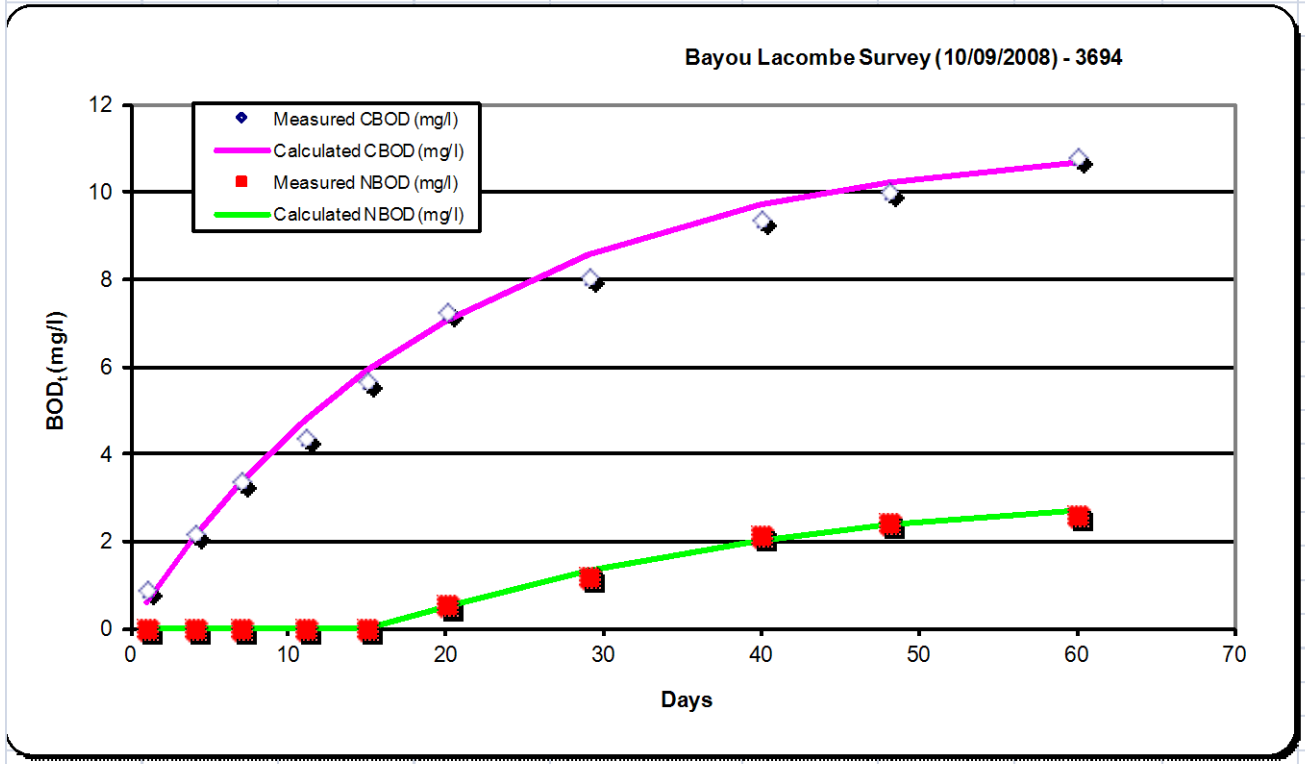
	NBOD	CBOD
UBOD (mg/l)	2.7985961	8.2527933
k rate (1/day)	0.0519792	0.0451042
Lag time (days)	19.298611	0



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

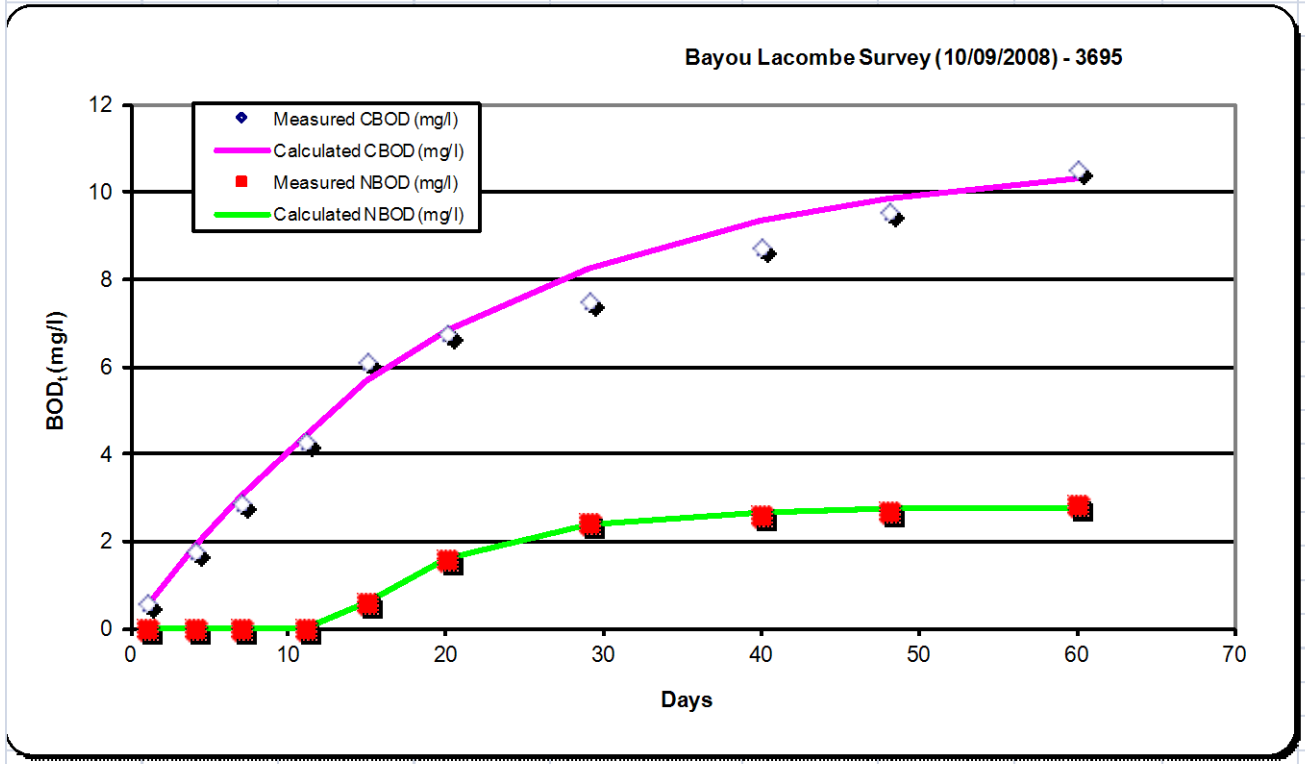
	NBOD	CBOD
UBOD (mg/l)	3.2018564	11.15916
k rate (1/day)	0.0416667	0.0485417
Lag time (days)	15.944444	0



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

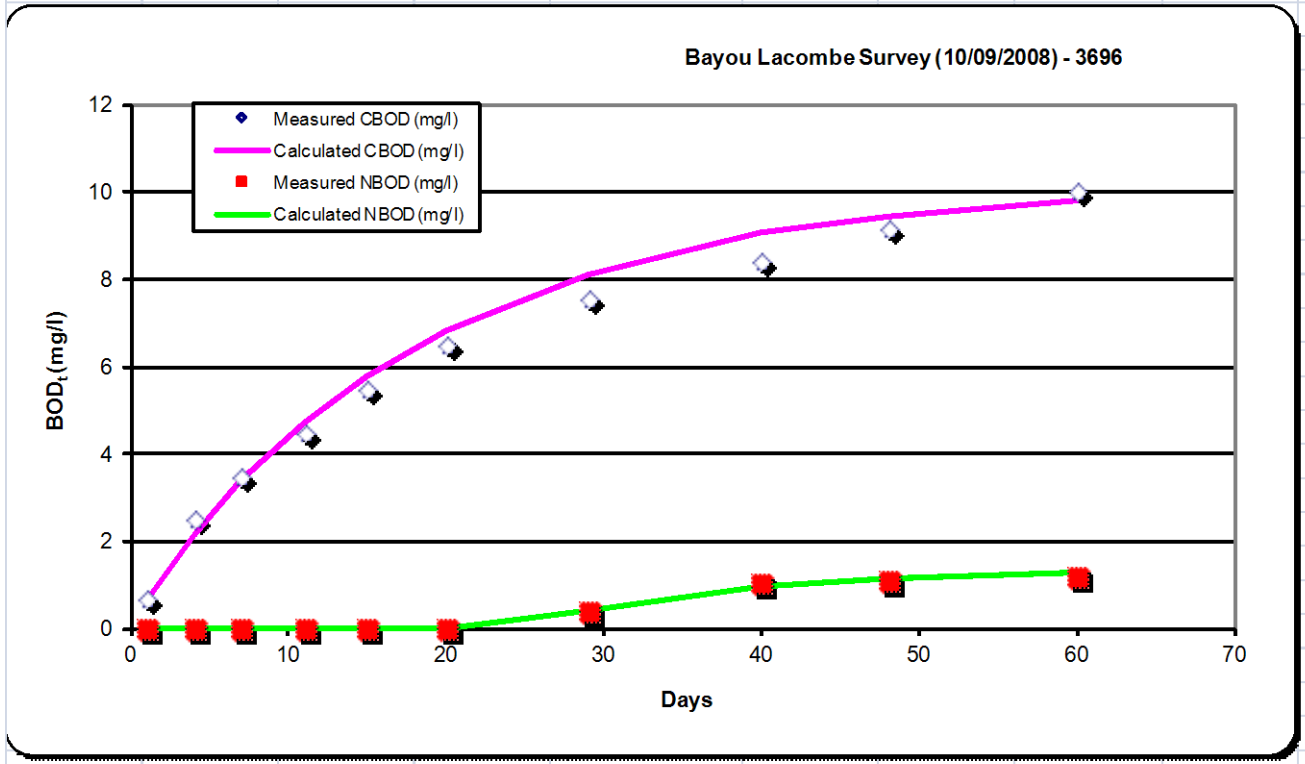
	NBOD	CBOD
UBOD (mg/l)	2.7612534	10.724407
k rate (1/day)	0.12875	0.0475868
Lag time (days)	13.173611	0



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

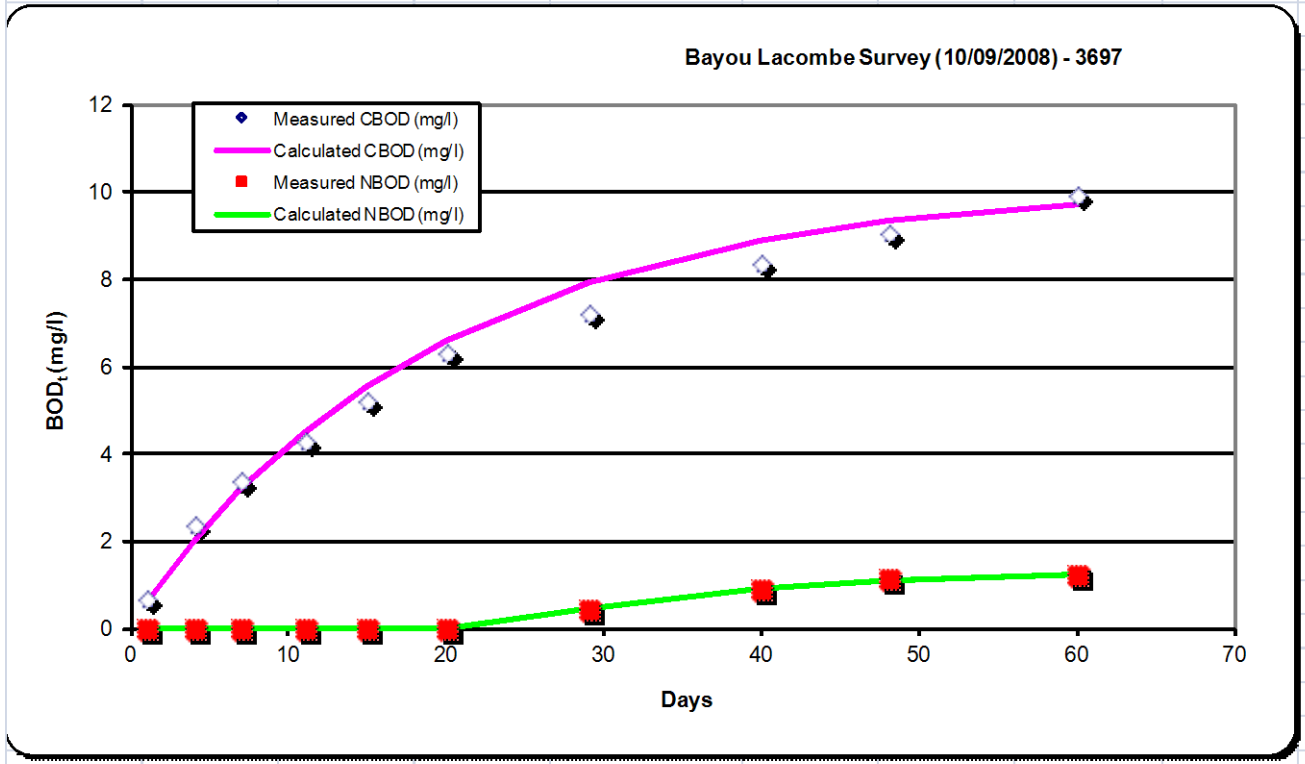
	NBOD	CBOD
UBOD (mg/l)	1.336725	9.9583349
k rate (1/day)	0.0796701	0.0542708
Lag time (days)	24.076847	0



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

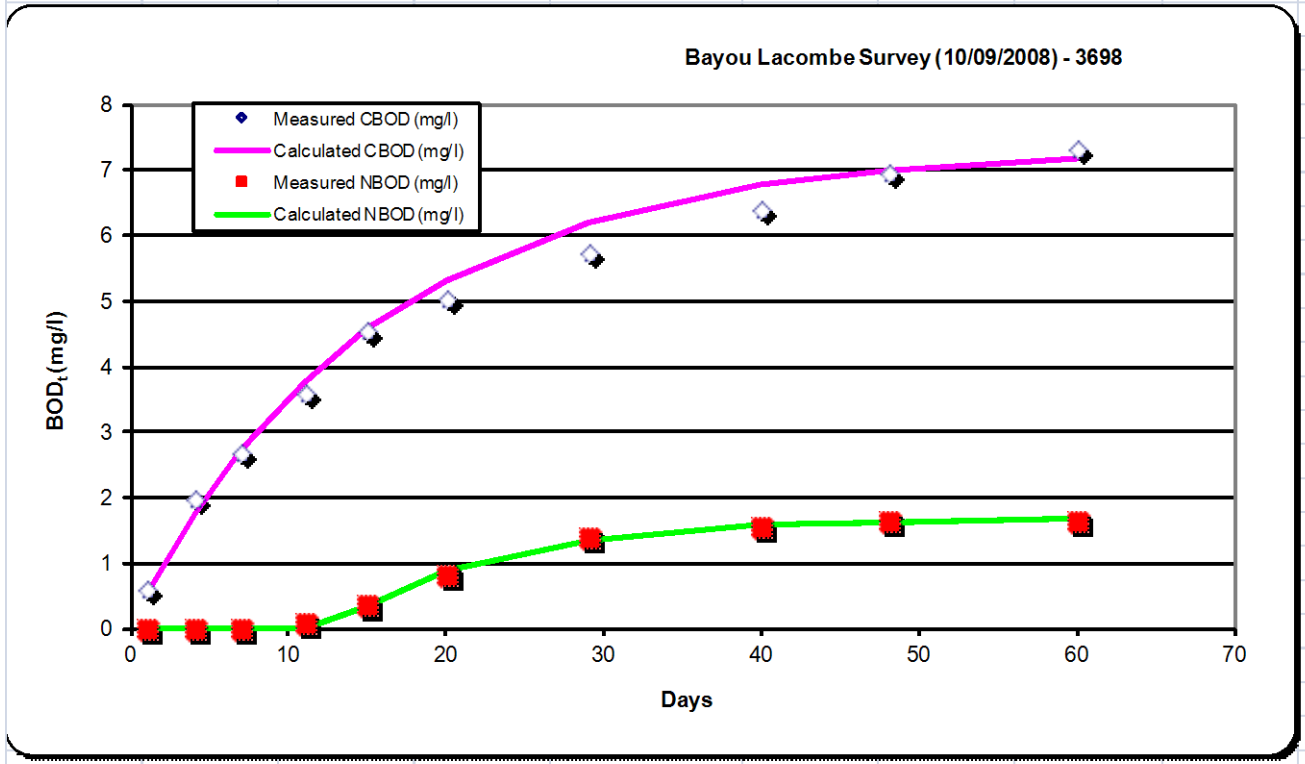
	NBOD	CBOD
UBOD (mg/l)	1.3881375	9.9751635
k rate (1/day)	0.0638194	0.0508333
Lag time (days)	22.745274	0



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

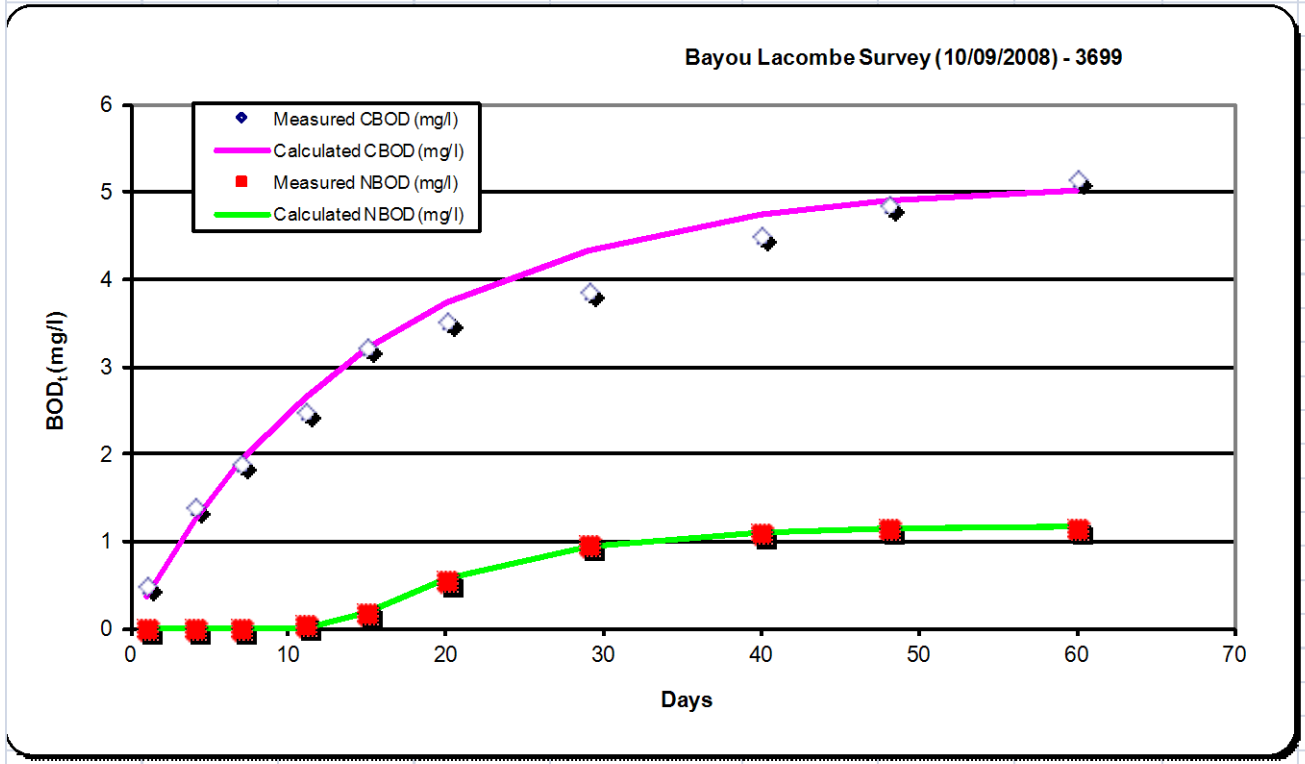
	NBOD	CBOD
UBOD (mg/l)	1.6794751	7.1902351
k rate (1/day)	0.10125	0.0634375
Lag time (days)	12.736111	0



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

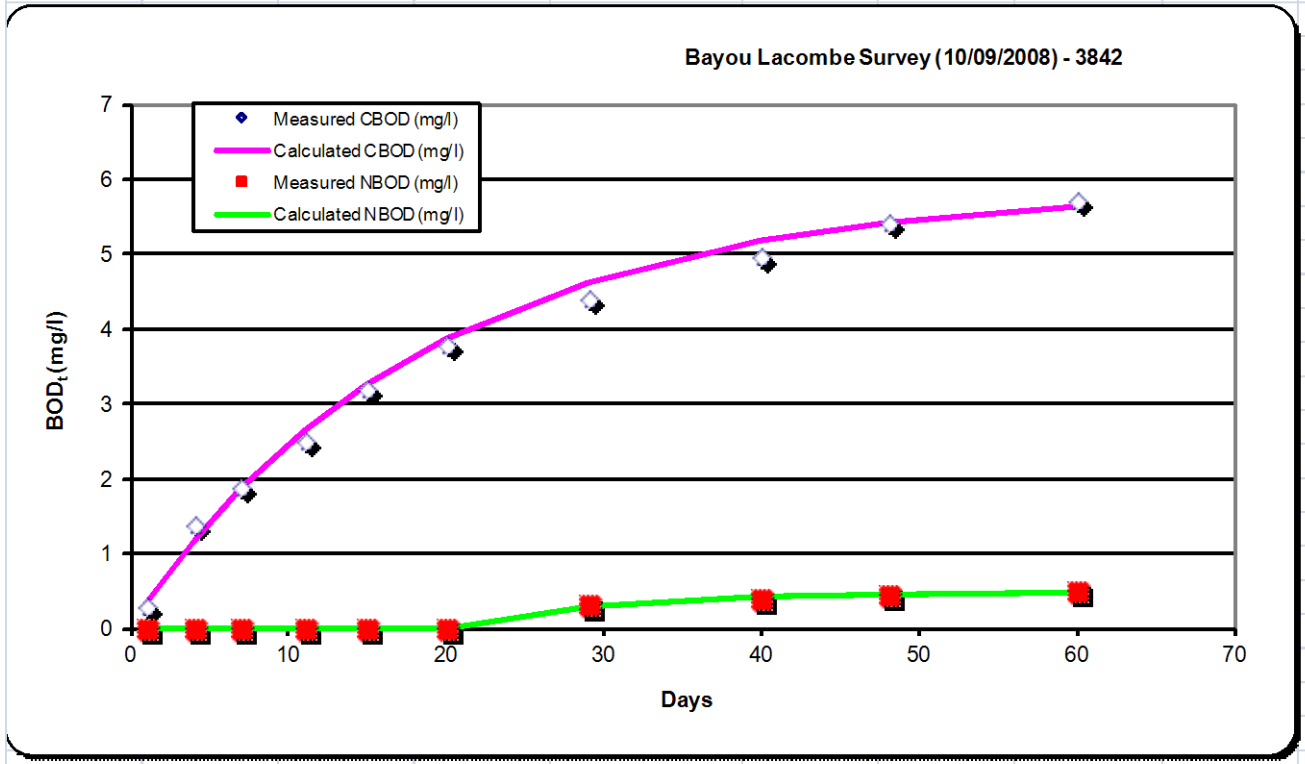
	NBOD	CBOD
UBOD (mg/l)	1.1663021	5.0116863
k rate (1/day)	0.1046875	0.0634375
Lag time (days)	13.465279	0



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

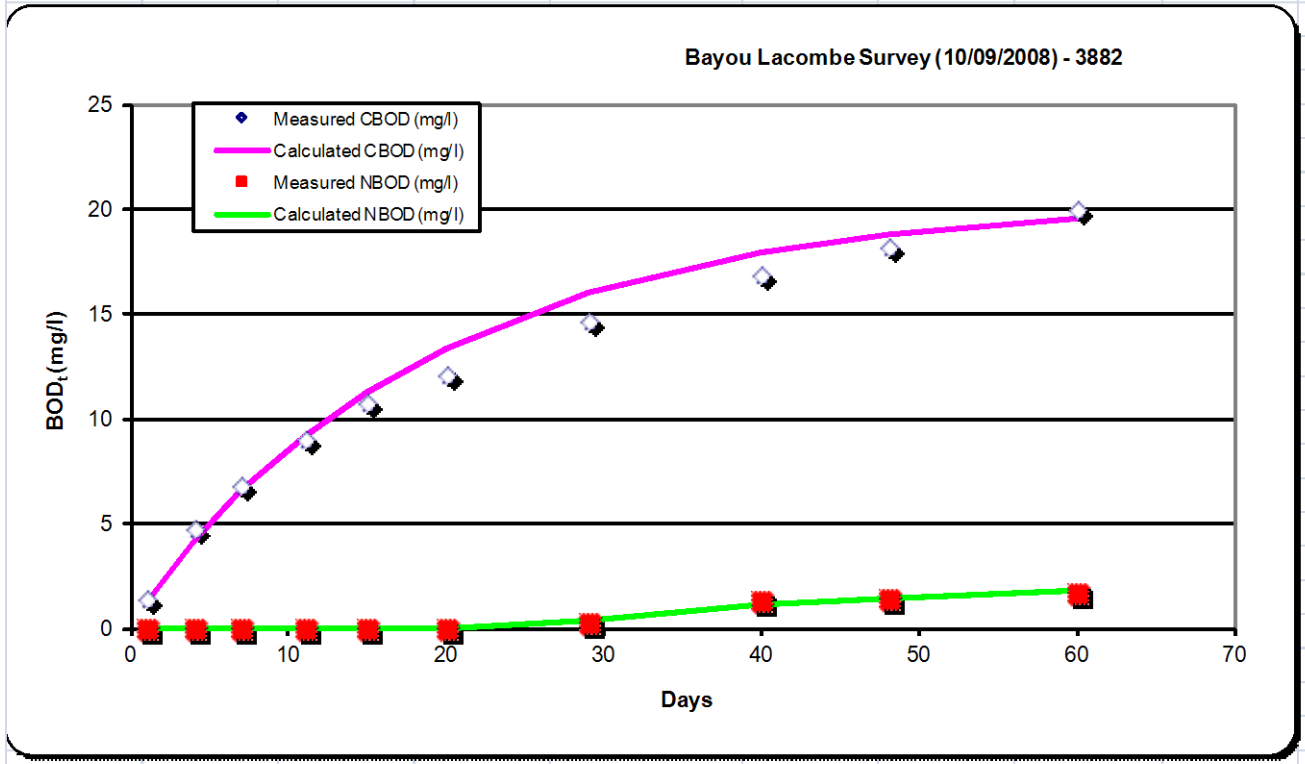
	NBOD	CBOD
UBOD (mg/l)	0.4918392	5.8012447
k rate (1/day)	0.1058333	0.053125
Lag time (days)	19.942709	0



Refresh Data for Current Site (1 Component)

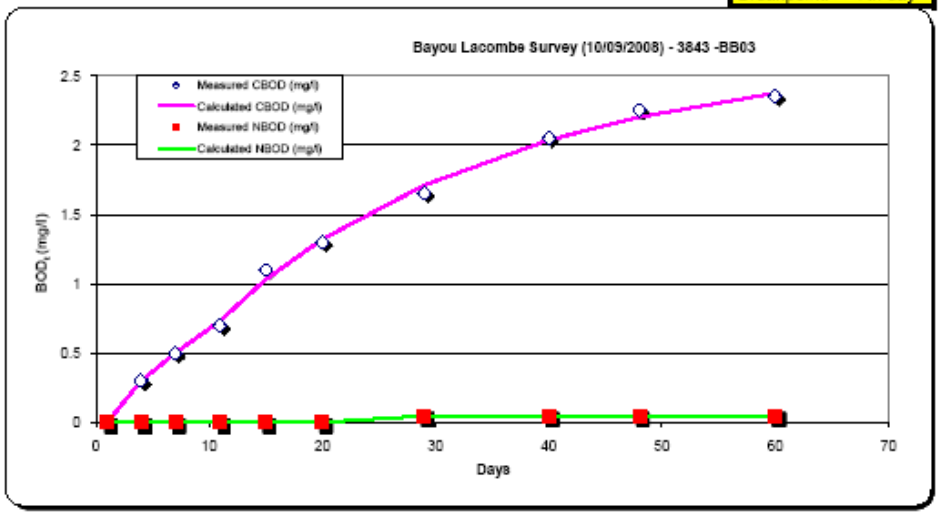
Calculate for all Sites (1 Component)

	NBOD	CBOD
UBOD (mg/l)	2.0860991	19.929539
k rate (1/day)	0.0535303	0.0517882
Lag time (days)	24.977058	0



	NBOD	CBOD1	CBOD2
UBOD (mg/l)	0.0457546	0.6608796	2.0226314
k rate (1/day)	0.5950994	0.2685417	0.0370833
Lag time (days)	19.999947	1.75	9.2361107

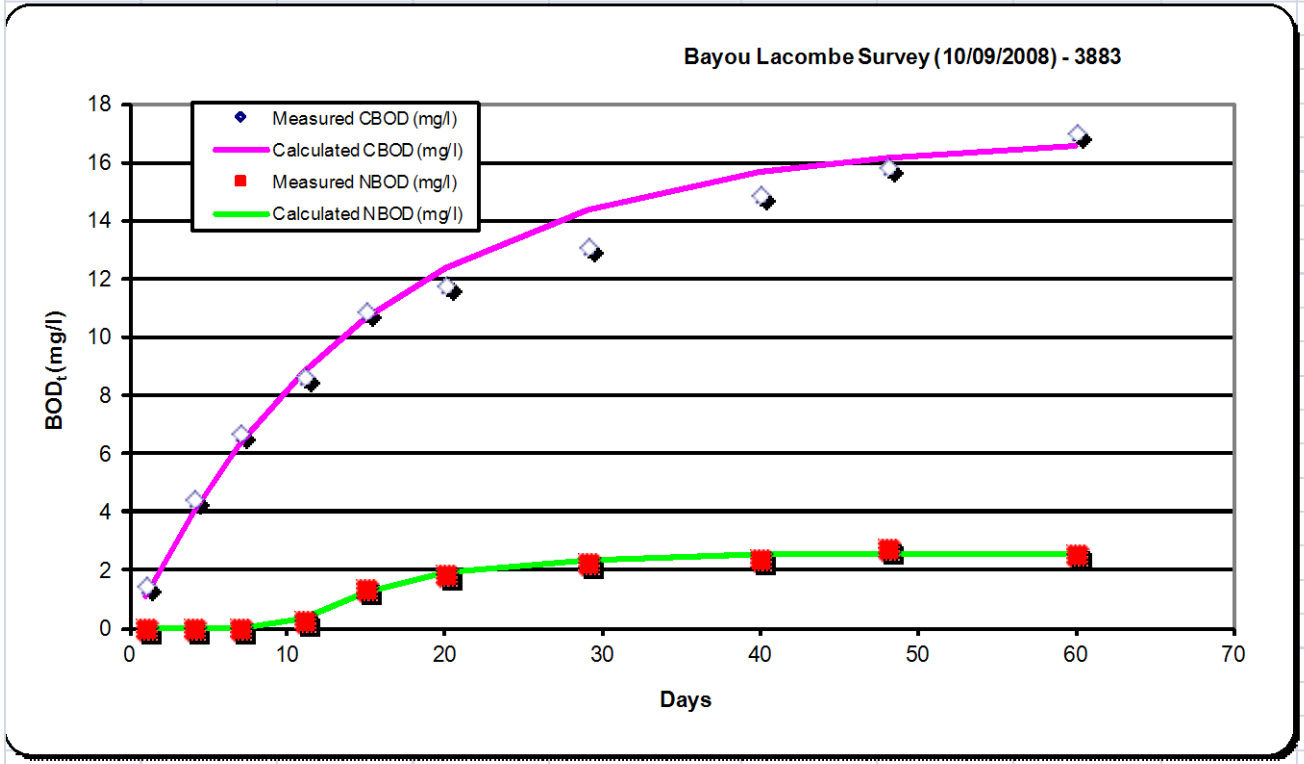
Breakpoint: 7th day



Refresh Data for Current Site (1 Component)

Calculate for all Sites (1 Component)

	NBOD	CBOD
UBOD (mg/l)	2.5532761	16.385271
k rate (1/day)	0.135625	0.0685937
Lag time (days)	10.013889	0



Appendix G– Historical and Ambient Data

Appendix G1 – Ambient Data Calcs for current seasonal limits

Critical Temperature and DO Determinations:

Site Description:	Site 0300--Bayou Lacombe below Hwy. 190 west of Slidell, LA; RKM 10.8

Input values into shaded area

Raw Data		
Date	DO	Temperature
mm/dd/yy	(mg/l)	(C^o)
1/15/1991	8.5	10
3/12/1991	5.8	16.7
5/14/1991	5.05	24.65
7/16/1991	3.9	27.8
9/10/1991	3.2	26.3
11/19/1991	4.6	16.92
1/7/1992	4.8	12.72
3/10/1992	5.9	19.93
5/12/1992	5.9	23.21
7/14/1992	4	30.85
9/15/1992	1.1	25.16
11/17/1992	6.6	12.95
1/12/1993	6.3	16.42
3/9/1993	7.82	14.3
5/11/1993	4.77	22.17
7/13/1993	5.66	24.38
9/14/1993	4.62	28.7
11/15/1993	5.24	17.9
1/10/1994	7.72	8.65
3/14/1994	8.01	14.08
5/10/1994	5.52	23.89
7/12/1994	5.33	24.07
9/13/1994	2.03	26.15
11/15/1994	3.58	19.01
1/10/1995	9.77	11.33
3/14/1995	7.67	17.34
7/11/1995	3.79	28.28
9/12/1995	3.6	26.47
11/14/1995	4.56	15.76
1/8/1996	8.57	8.32
3/11/1996	7.86	9.96
5/14/1996	5.05	23.29
7/8/1996	4.53	28.56
9/10/1996	3.52	26.37
11/18/1996	1.18	21.02
1/7/1997	7.92	12.42
3/11/1997	7.12	18.34
5/13/1997	5.06	21.76
7/15/1997	5.54	25.78
9/9/1997	2.62	27.08
11/17/1997	3.71	13.42
1/13/1998	7.73	14.35
3/9/1998	6.75	15.52
5/11/1998	3.75	26.31
1/16/2001	8.19	12.72
2/13/2001	8.2	13.89
3/20/2001	7.81	14.91
4/17/2001	6.28	23.77
5/15/2001	5.09	23.46
6/12/2001	4.9	24.5
7/17/2001	2.63	28.17
8/14/2001	3.63	25.05
9/11/2001	5.2	24.47
10/9/2001	0.89	22.39
11/6/2001	1.47	18.4
12/11/2001	2.32	17.53
1/31/2007 9:20	9.66	8.58
2/27/2007 10:20	6.99	16.74
3/20/2007 10:30	9.74	8.14
4/10/2007 10:25	5.64	16.5
5/1/2007 10:45	5.06	24.65
5/22/2007 10:08	4.91	24.08
6/12/2007 10:25	3.16	27.98
7/10/2007 10:20	4.36	26.32
7/31/2007 9:30		27.27
8/21/2007 9:55	2.19	29.39
9/20/2007 11:30	3.4	24.89
10/10/2007	0.33	26.82
10/12/2010	1.94	23.65
11/9/2010	3.58	19.55
12/7/2010	2.6	14.99
1/11/2011	11.4	11.02
2/8/2011	10.11	7.71
3/15/2011	6.69	17.41
4/5/2011	3.65	20.71

Summer Season 90th Percentile, Temperature(^oC):	**28.4**
Winter Season 90th Percentile, Temperature(^oC):	**19.6**
Summer Season Median, DO(mg/l):	**4.00**
Winter Season Median, DO(mg/l):	**6.75**
Annual Median, DO(mg/l):	**5.06**
Annual 10th Percentile, DO(mg/l):	**2.23**

Summer Seasonal Months
5
6
7
8
9
10

Winter Seasonal Months
11
12
1
2
3
4

Summer season DO data count:	**35**
Winter season DO data count:	**39**
Summer season Temperature data count:	**36**
Winter season Temperature data count:	**39**

Critical Temperature and DO Determinations:

Site Description:	Site 1047--Bayou Lacombe at Hwy. 434 Bridge; RKM 3.1

Raw Data		
Date	DO	Temperature
mm/dd/yy	(mg/l)	(C°)
1/16/2001	6.7	11.8
2/13/2001	8.92	16.93
3/20/2001	6.93	15.18
4/17/2001	6.58	24.63
5/15/2001	5.62	26.65
6/12/2001	4.69	24.67
7/17/2001	3.53	29.35
8/14/2001	1.81	25.54
9/11/2001	3.77	26.52
10/9/2001	7.61	22.19
11/6/2001	7.64	19.05
12/11/2001	7.55	16.88
3/20/2007 11:00	6.99	19.52
1/31/2007 9:40	7.61	7.9
4/10/2007 10:03	4.89	15.79
5/22/2007 10:30	4.89	24.21
6/12/2007 11:00	1.56	29.15
7/10/2007 10:35	2.22	27.95
5/1/2007 11:05	3.13	25.3
8/21/2007 8:25	5.03	31.1
9/20/2007 12:00	4.96	26.9
10/10/2007 10:35	2.84	25.57
2/22/2007 10:50	8.74	19.2
1/12/2010	9.33	7.12
2/2/2010	7.54	11.07
5/11/2010	8.14	25.55
4/21/2010	7.44	24.48
3/11/2010	8.07	14.53
4/21/2010	6.08	22.49
9/8/2010	3.35	29.16
10/19/2010	6.94	22.86
11/9/2010	9.7	16.75
6/10/2010	5.67	30.47
7/20/2010	5.9	30.74
8/16/2010	5.22	31.28
12/9/2010	10.01	9.71

Input values into shaded area

Summer Season 90th Percentile, Temperature(°C):	**30.8**
Winter Season 90th Percentile, Temperature(°C):	**23.3**

Summer Season Median, DO(mg/l):	**4.89**
Winter Season Median, DO(mg/l):	**7.55**
Annual Median, DO(mg/l):	**6.33**
Annual 10th Percentile, DO(mg/l):	**2.99**

Summer Seasonal Months
5
6
7
8
9
10

Winter Seasonal Months
11
12
1
2
3
4

Summer season DO data count:	**19**
Winter season DO data count:	**17**
Summer season Temperature data count:	**19**
Winter season Temperature data count:	**17**

Appendix G2 – Land Use

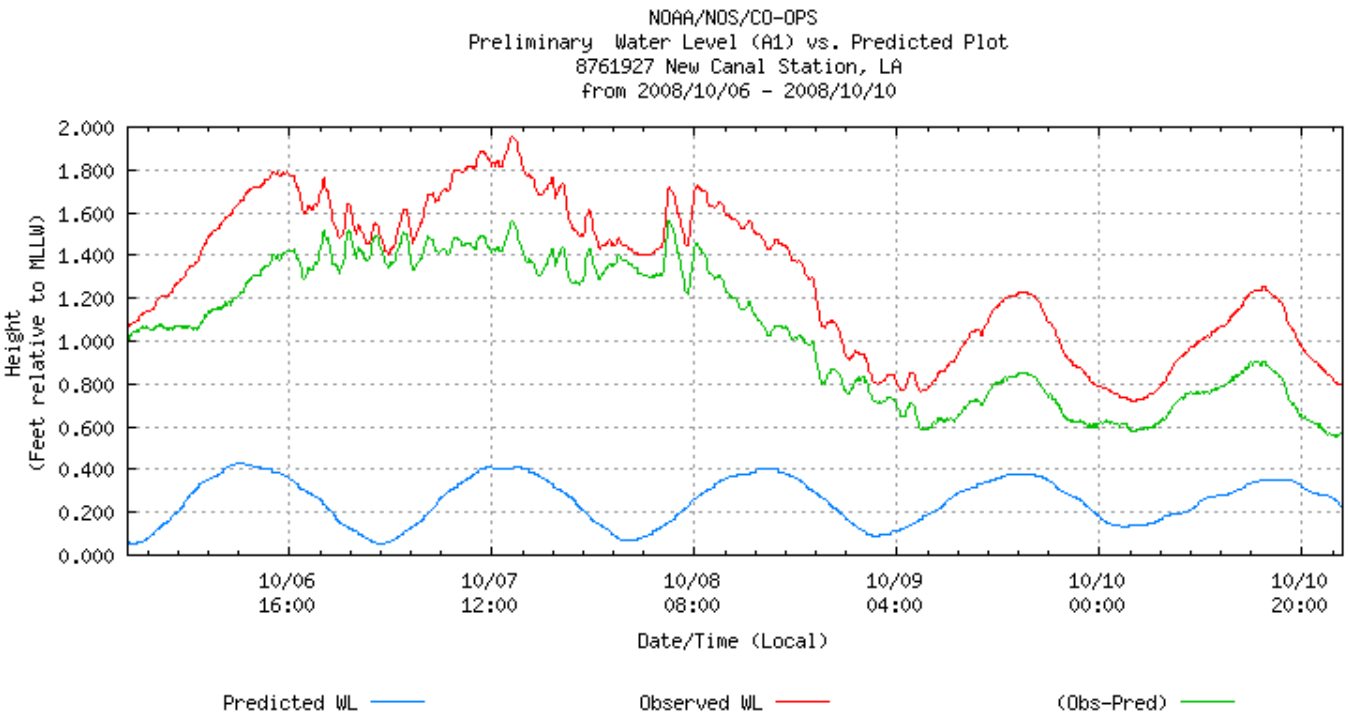
Subsegment 040901

Class Name	Acres	% Land Cover
Evergreen Forest Land	36540	83.23
Deciduous Forest Land	3592	8.18
Forested Wetland	2182	4.97
Pasture/Hay	786	1.79
Urban or Built-up Land	542	1.23
Water	128	0.29
Transitional Areas	108	0.25
Gravel Pit, Strip Mine	11	0.03
Wetland Nonforested	6	0.01
Developed low density	5	0.01
Total	**43900**	**100.00**

Subsegment 040902

Class Name	Acres	% Land Cover
Evergreen Forest Land	9363	44.58
Brackish Marsh	3713	17.68
Deciduous Forest Land	2860	13.62
Urban or Built-up Land	2040	9.71
Forested Wetland	1039	4.95
Fresh Marsh	476	2.27
Pasture/Hay	462	2.20
Developed low density	343	1.63
Water	338	1.61
Transitional Areas	258	1.23
Wetland Nonforested	68	0.32
Gravel Pit, Strip Mine	17	0.08
Developed medium density	15	0.07
Clouds	12	0.06
Sugarcane	1	0.00
	21005	**100**

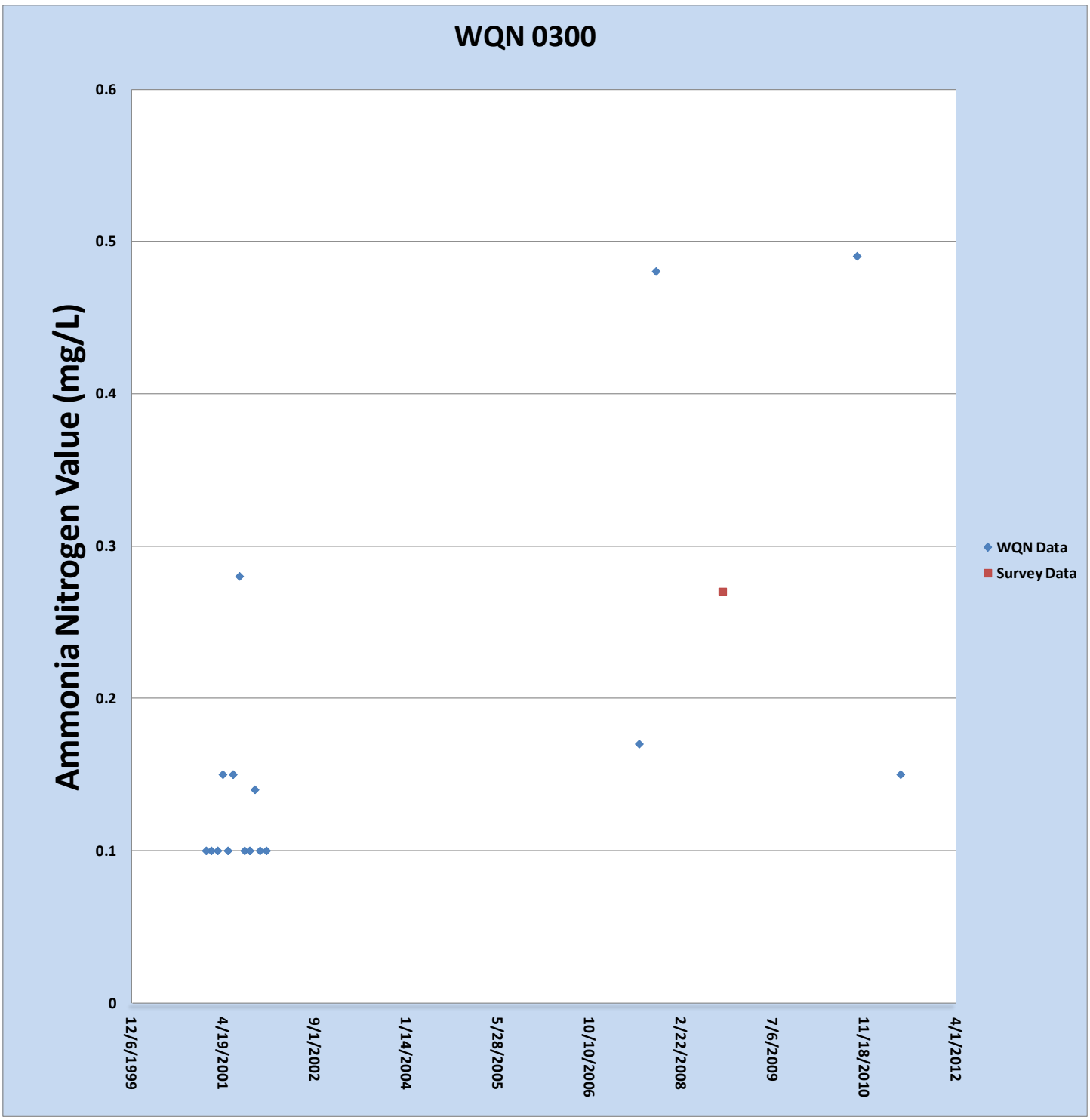
Appendix G3 – Stage Data

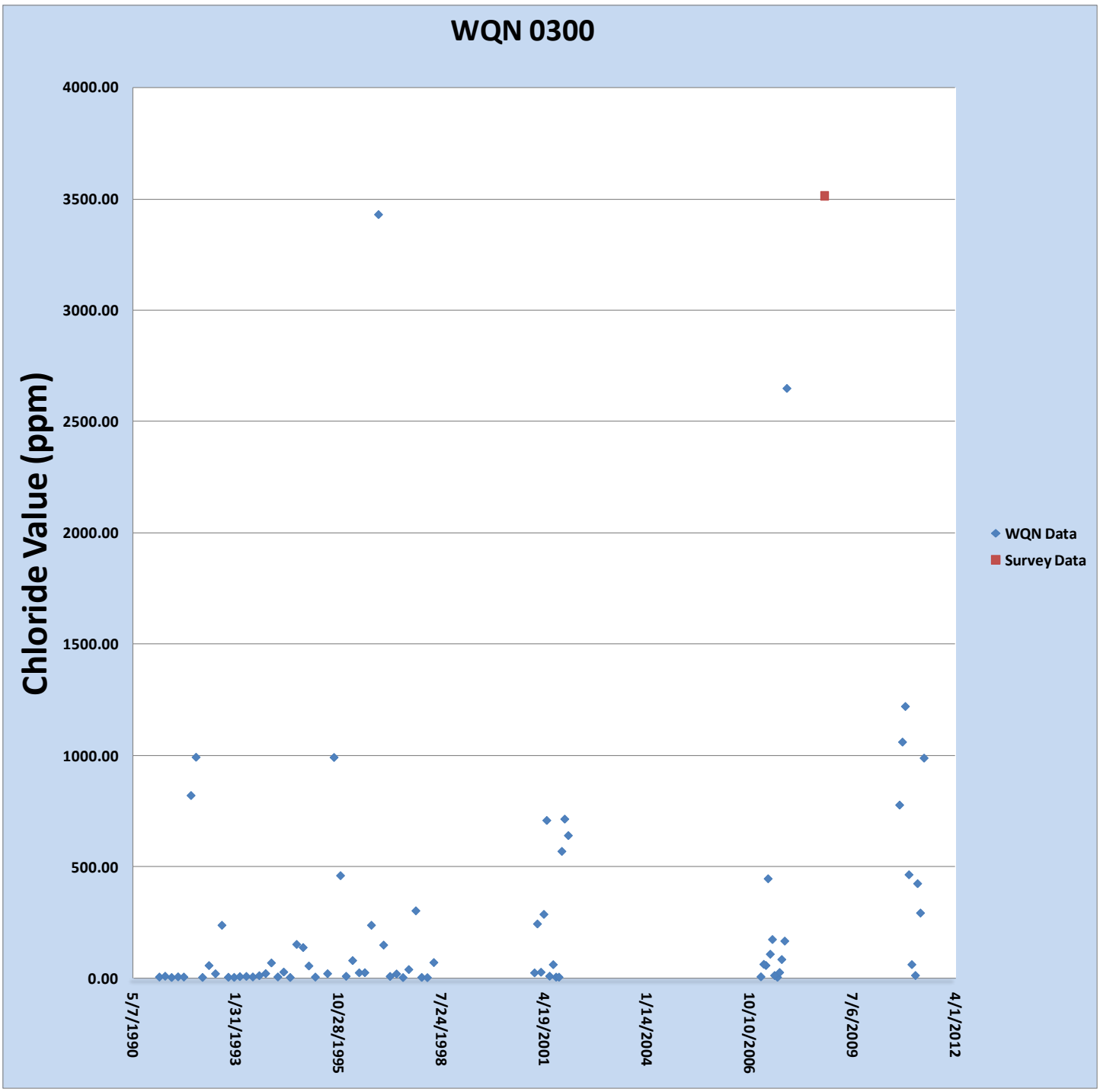


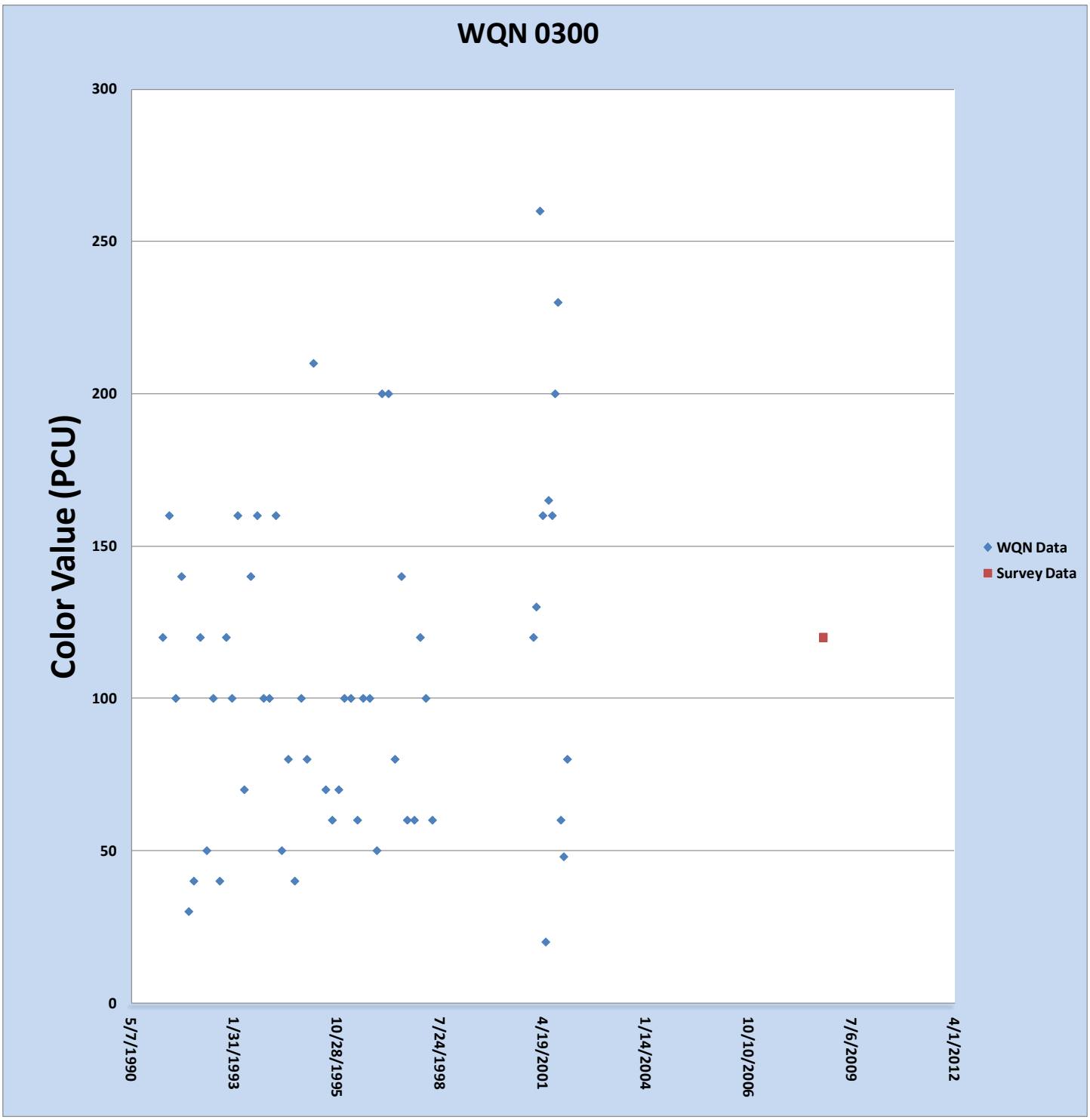
http://tidesandcurrents.noaa.gov/data_menu.shtml?bdate=20081006&edate=20081010&datum=6&unit=1&shift=d&stn=8761927+New+Canal+Station%2C+LA&type=Tide+Data&format=View+Plot

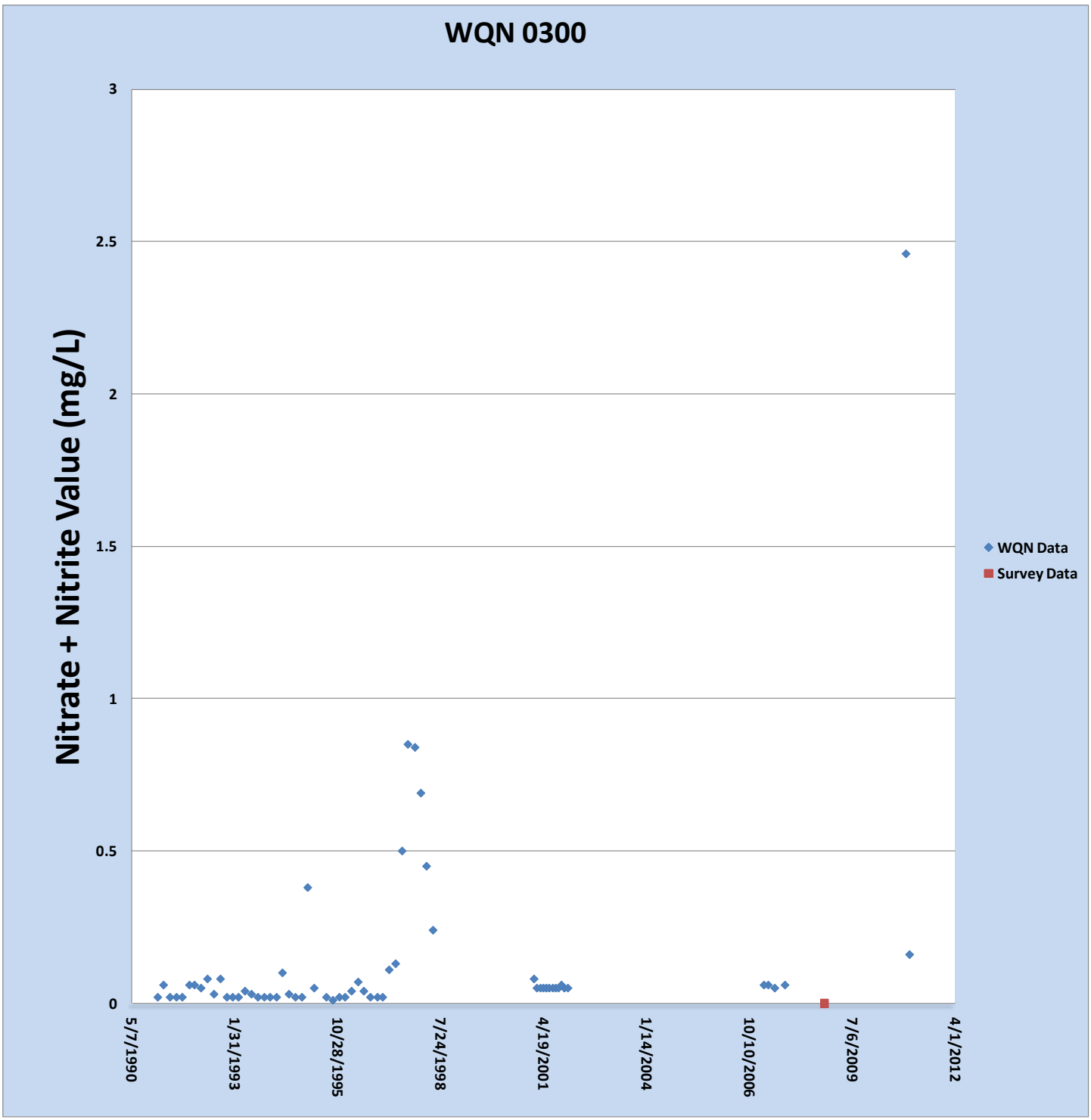
The link above is the source of the tide plot at New Canal Station. The typical tide height of 0.152 m (0.5 ft) for a Lake Pontchartrain waterbody was verified by this plot. It was approximately 0.5 ft.

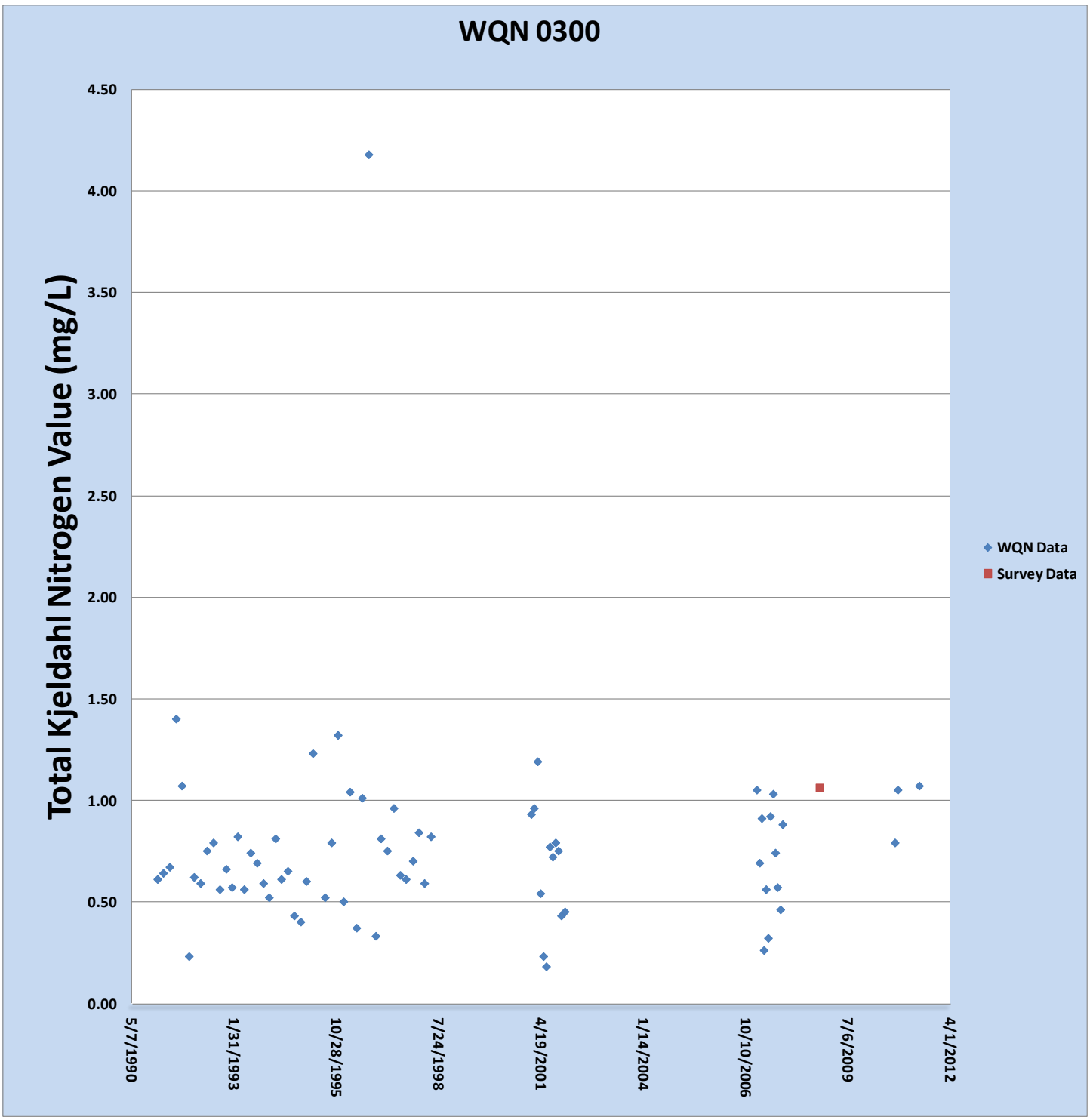
Appendix G4 – WQN 0300 Ambient vs Survey Site BL06 Data Graphs

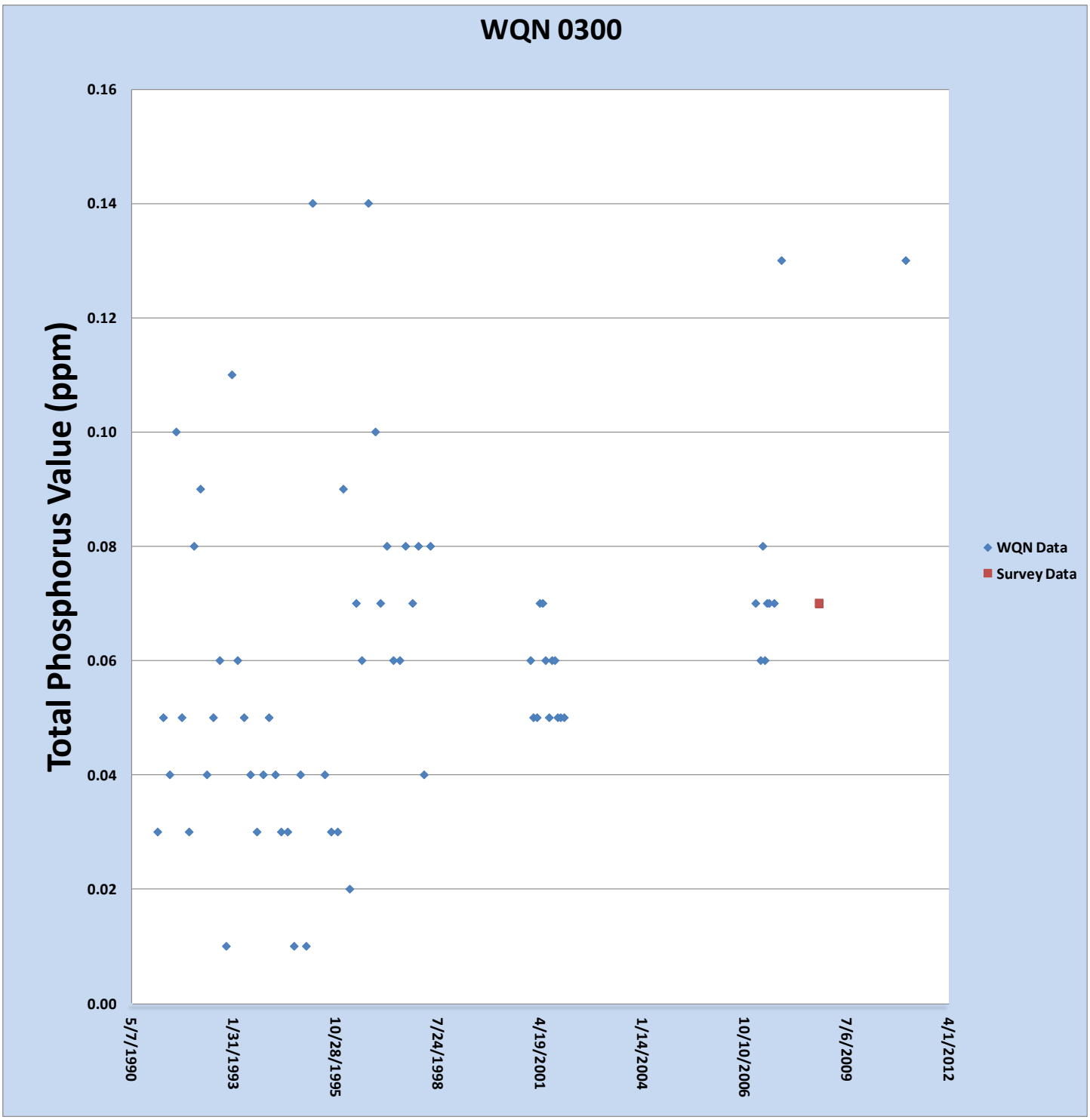

WQN 0300
Ammonia Nitrogen Value (mg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
WQN Data
Survey Data

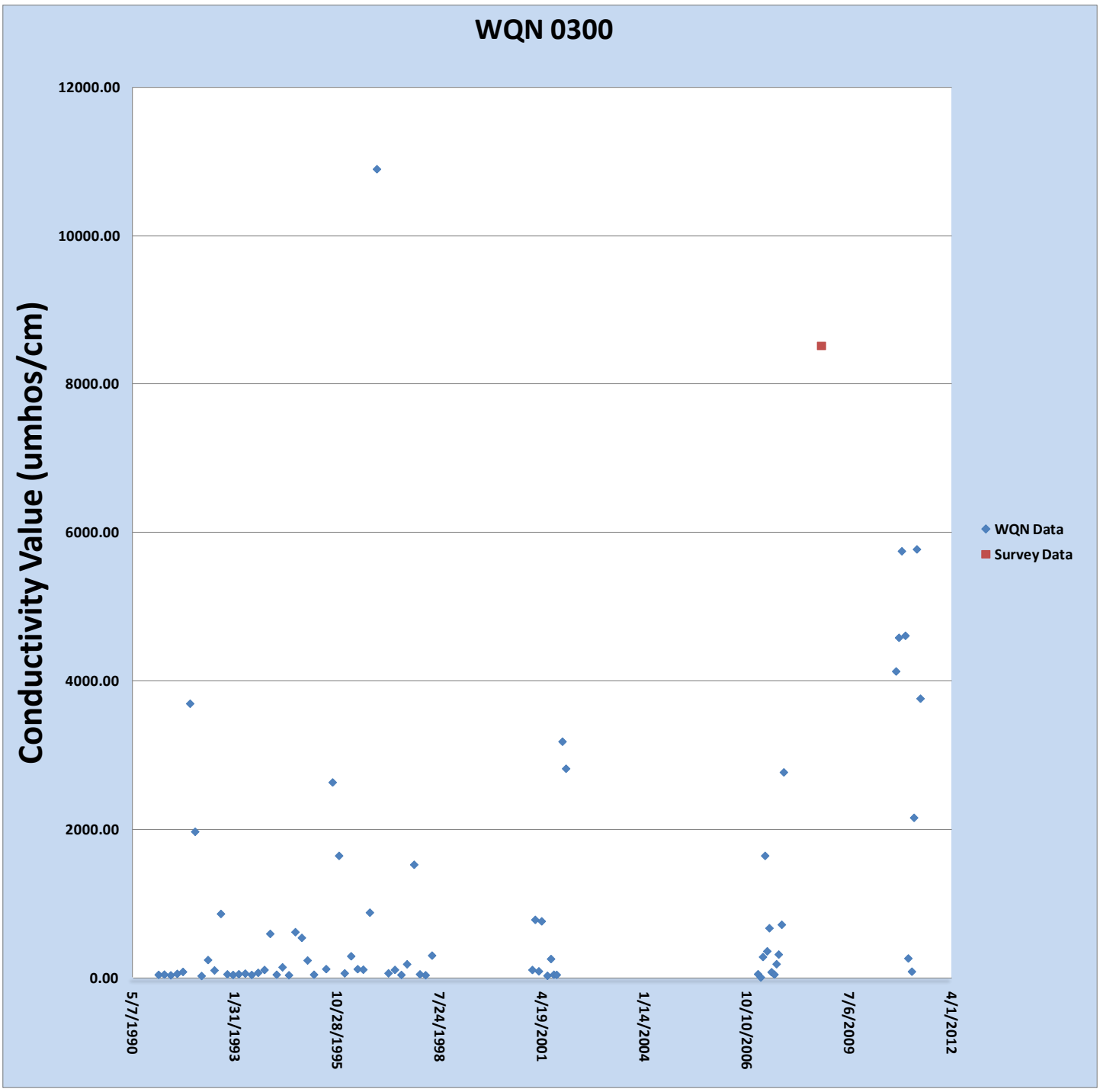

WQN 0300
Chloride Value (ppm)
4000.00
3500.00
3000.00
2500.00
2000.00
1500.00
1000.00
500.00
0.00
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
WQN Data
Survey Data

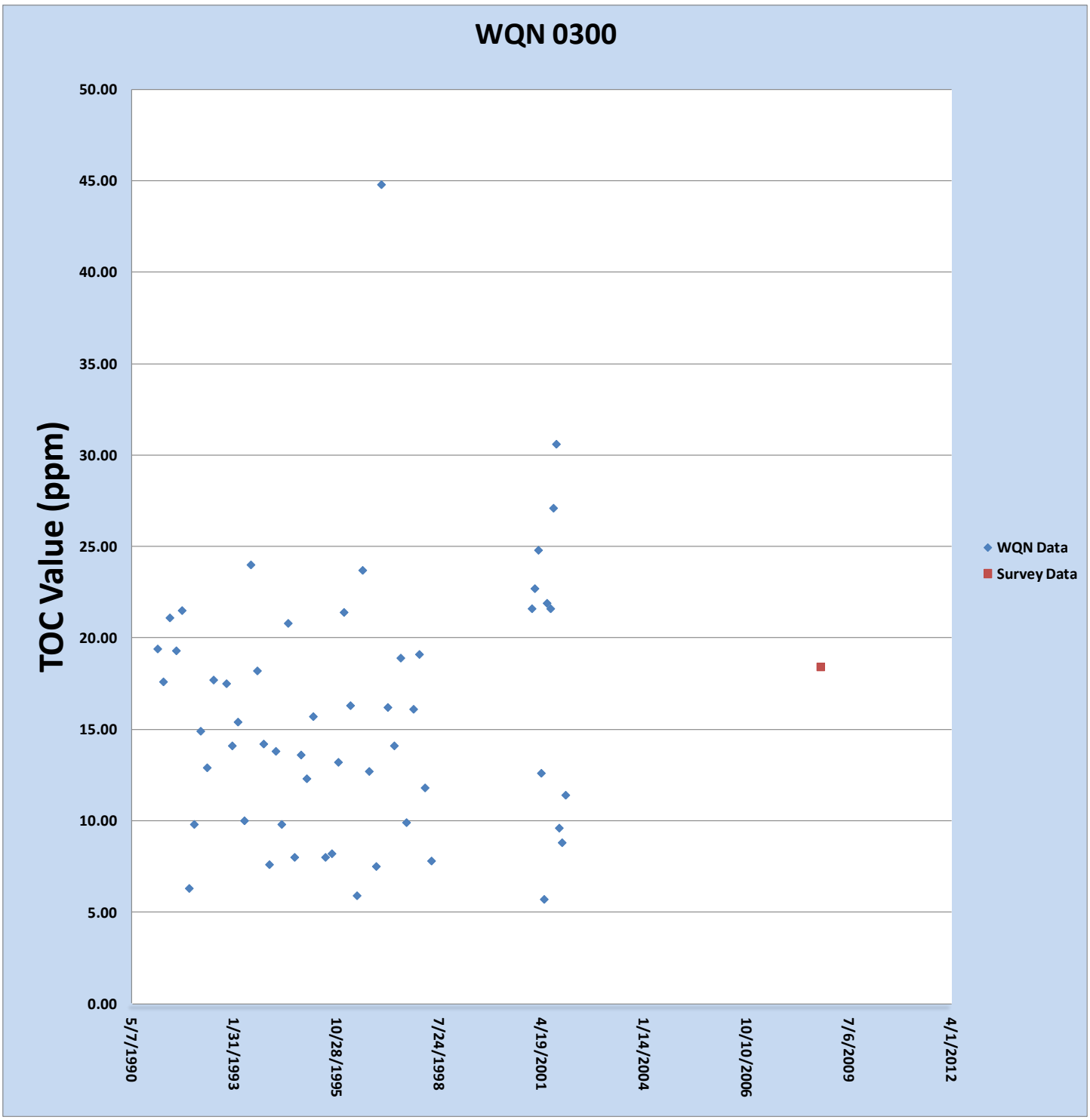

WQN 0300
Color Value (PCU)
300
250
200
150
100
50
0
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
WQN Data
Survey Data

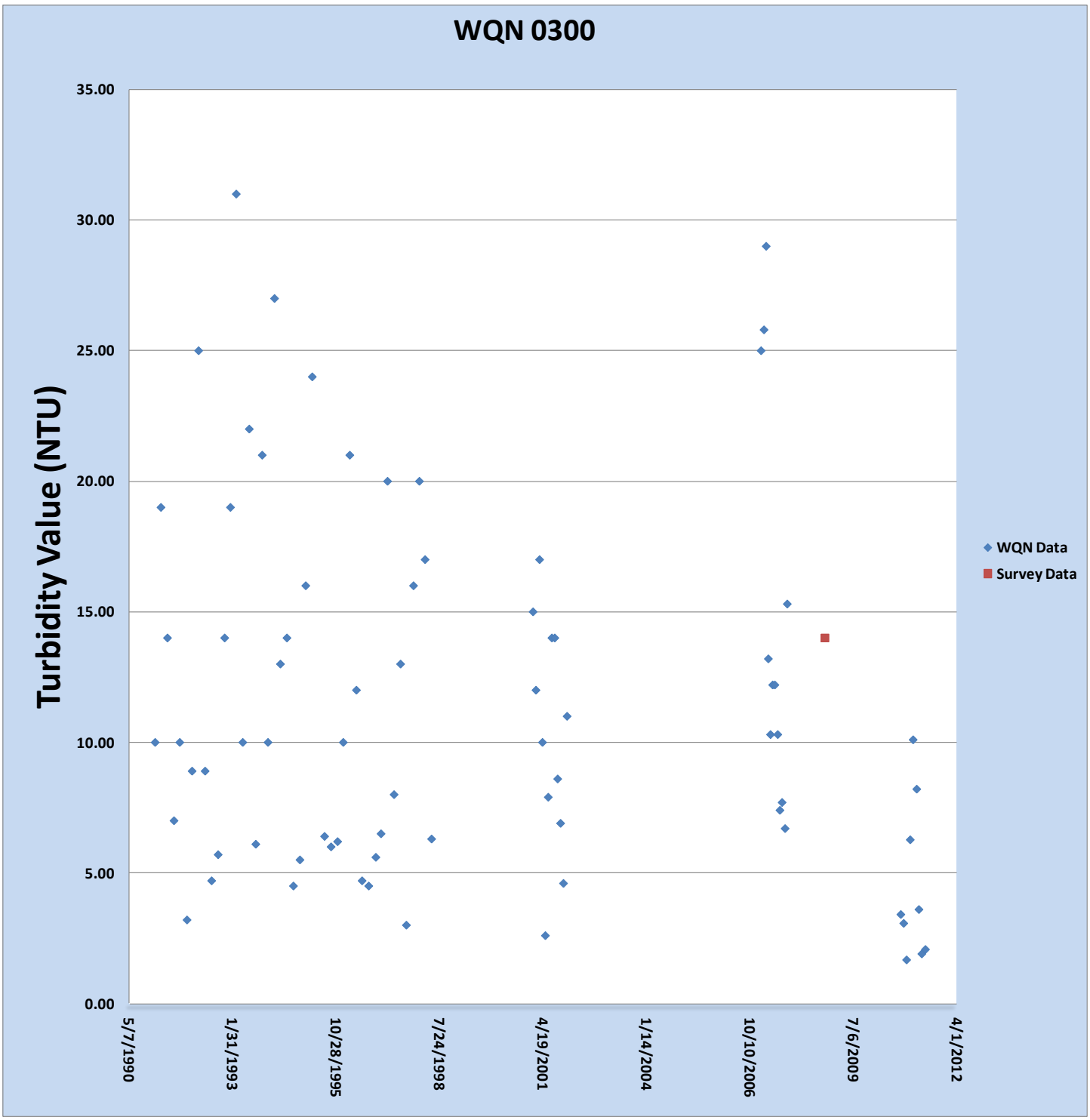

WQN 0300
Nitrate + Nitrite Value (mg/L)
3
2.5
2
1.5
1
0.5
0
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
WQN Data
Survey Data

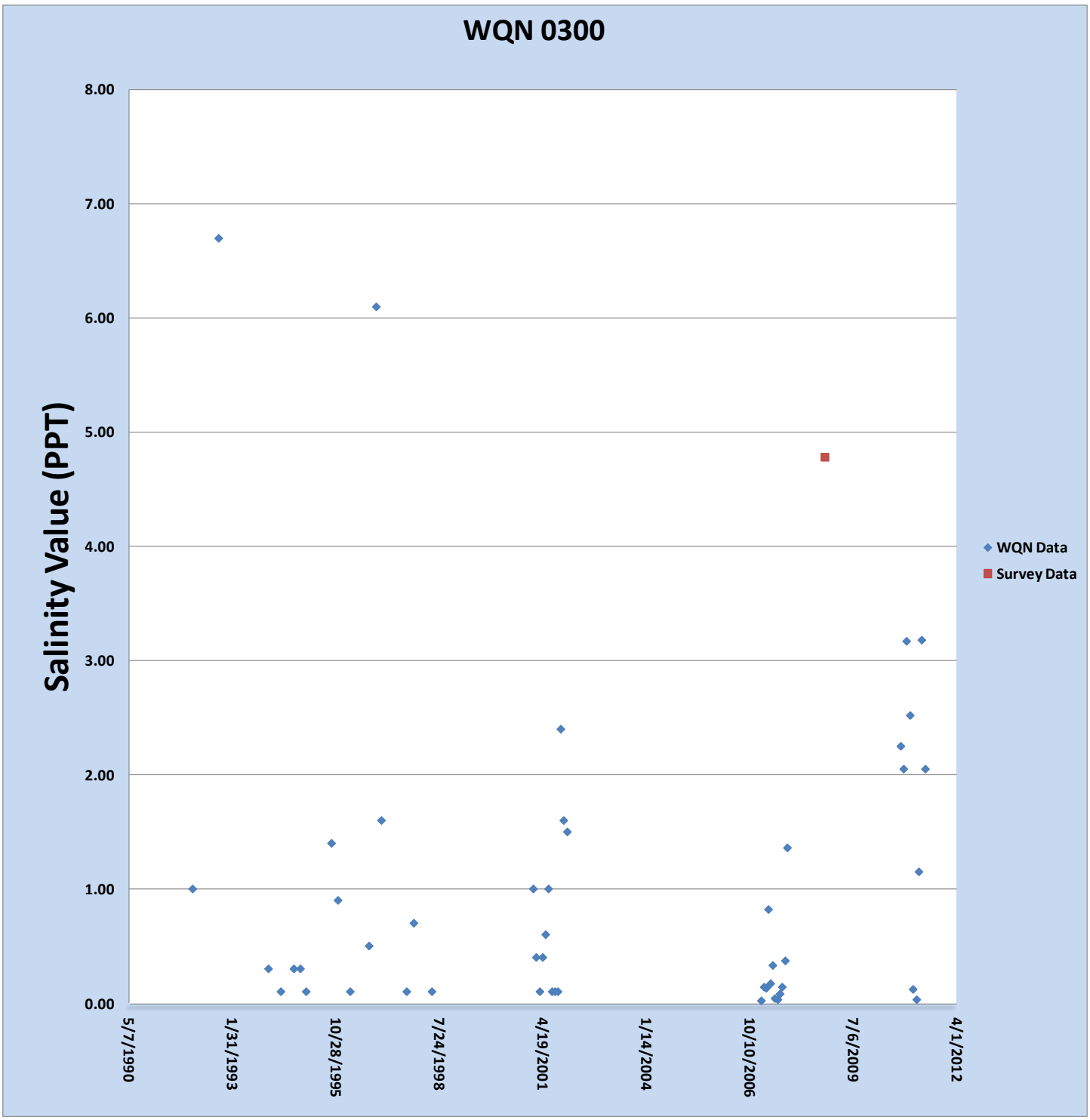

WQN 0300
Total Kjeldahl Nitrogen Value (mg/L)
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
WQN Data
Survey Data


WQN 0300
Total Phosphorus Value (ppm)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
WQN Data
Survey Data

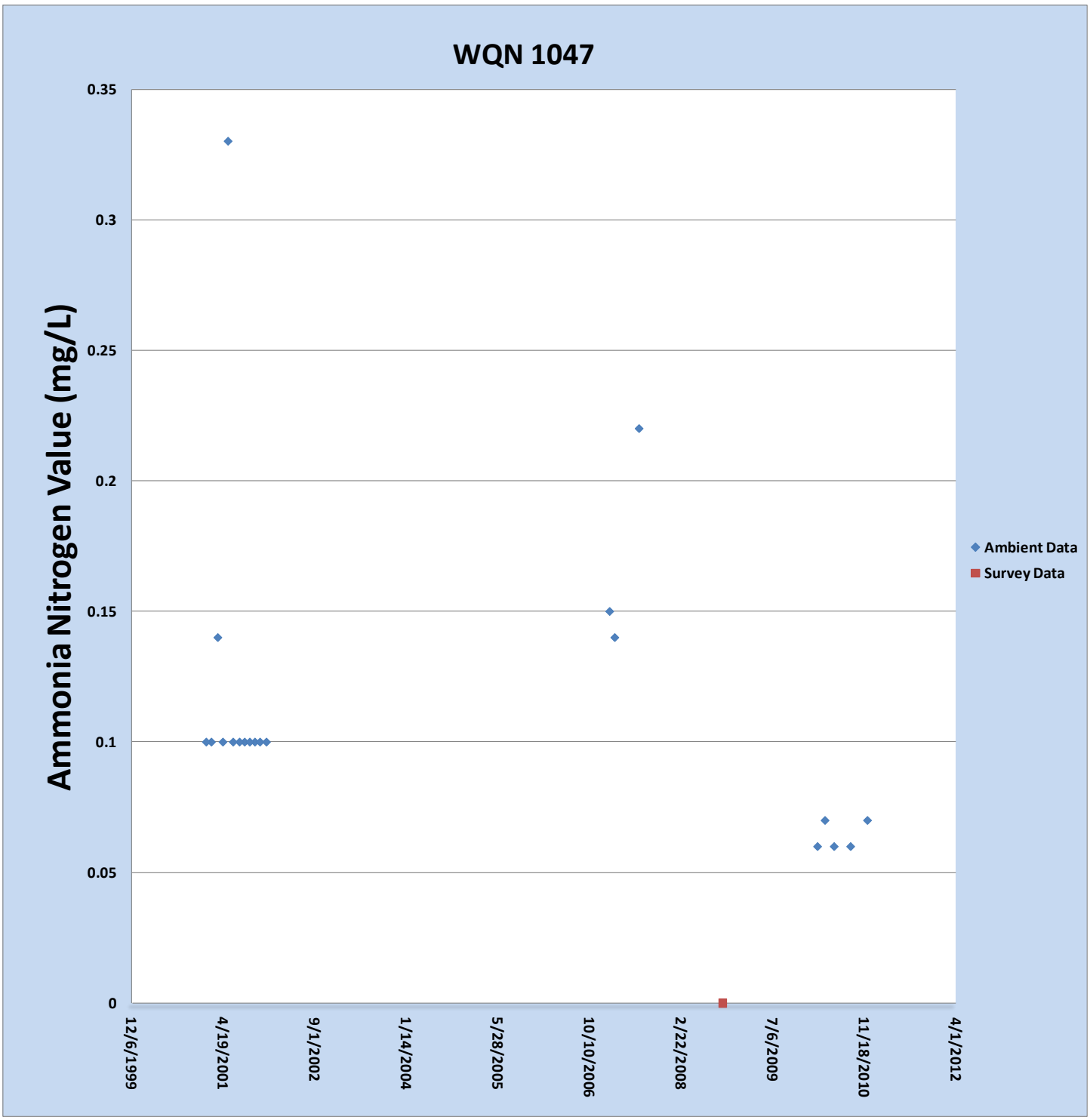

WQN 0300
Conductivity Value (umhos/cm)
12000.00
10000.00
8000.00
6000.00
4000.00
2000.00
0.00
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
WQN Data
Survey Data

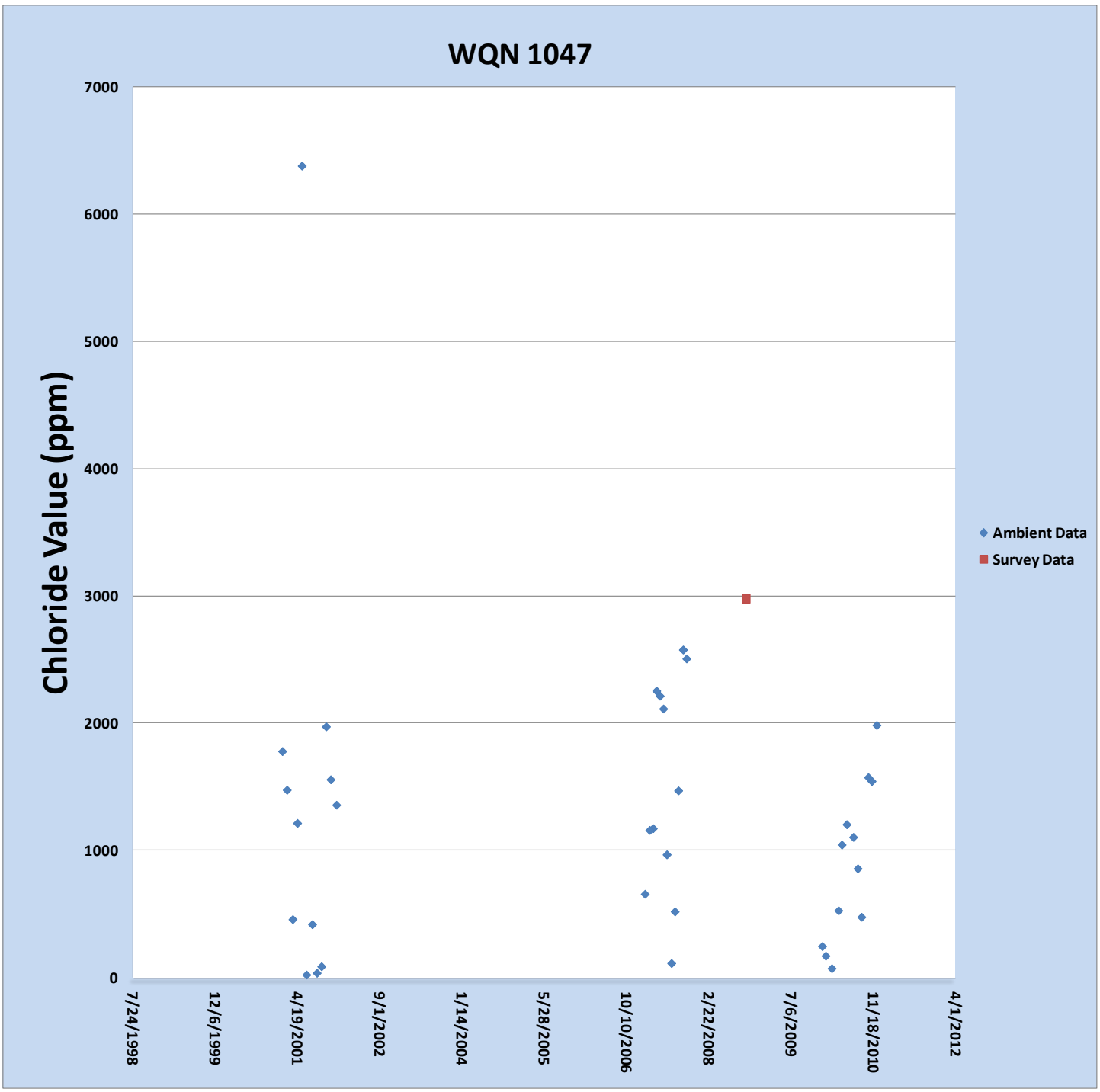

WQN 0300
TOC Value (ppm)
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
WQN Data
Survey Data

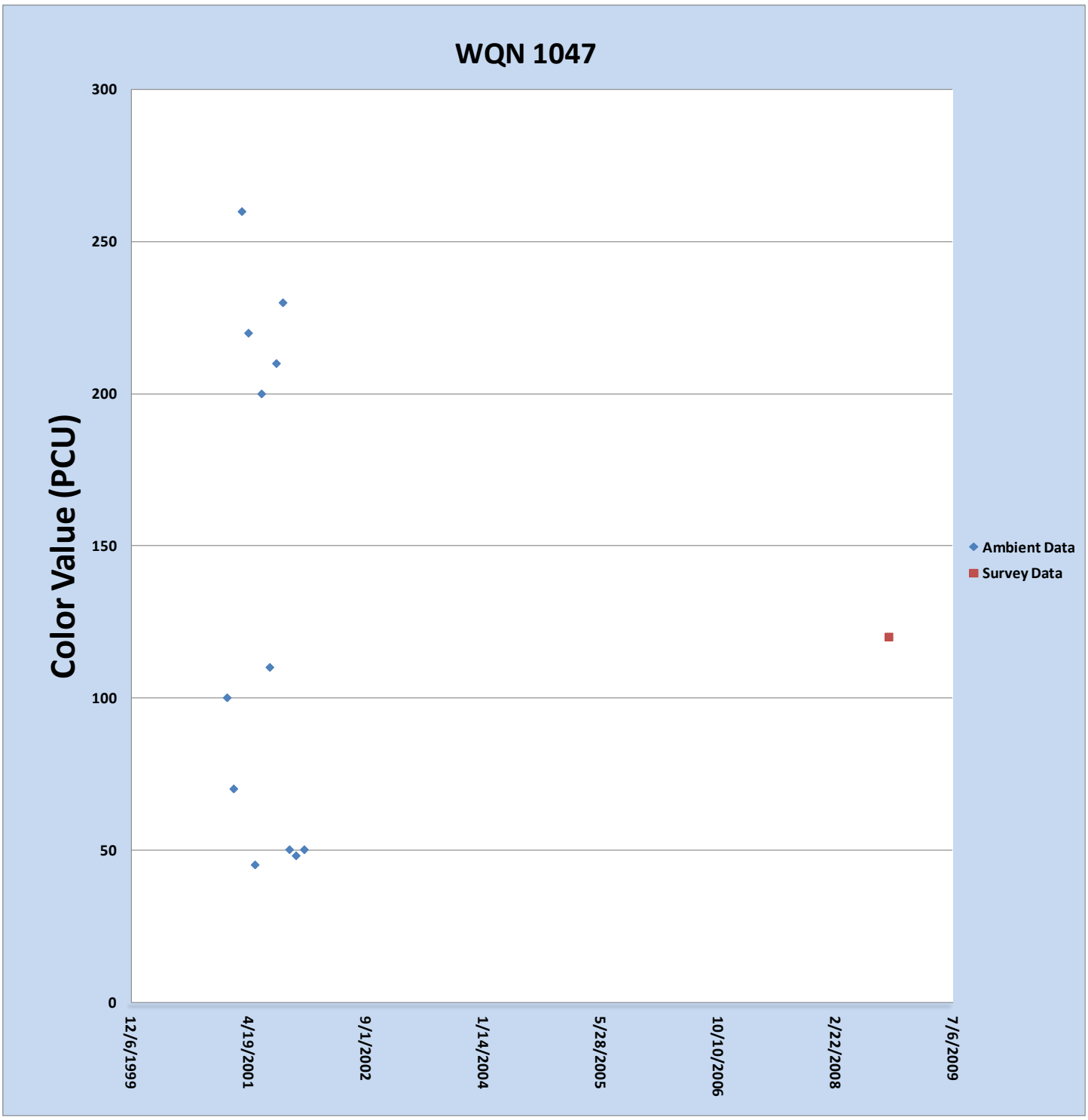

WQN 0300
Turbidity Value (NTU)
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
WQN Data
Survey Data

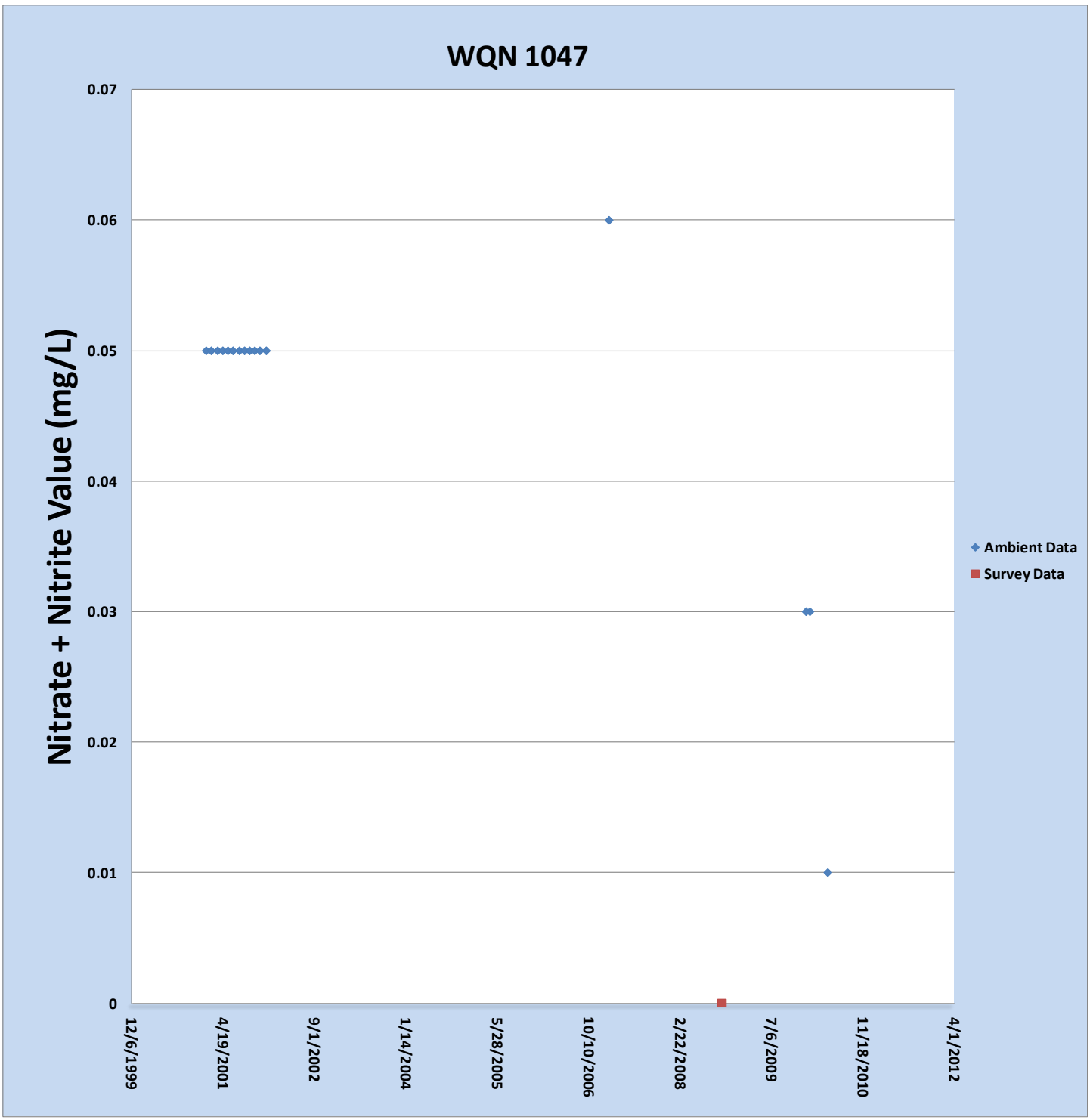

WQN 0300
Salinity Value (PPT)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
5/7/1990
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
WQN Data
Survey Data

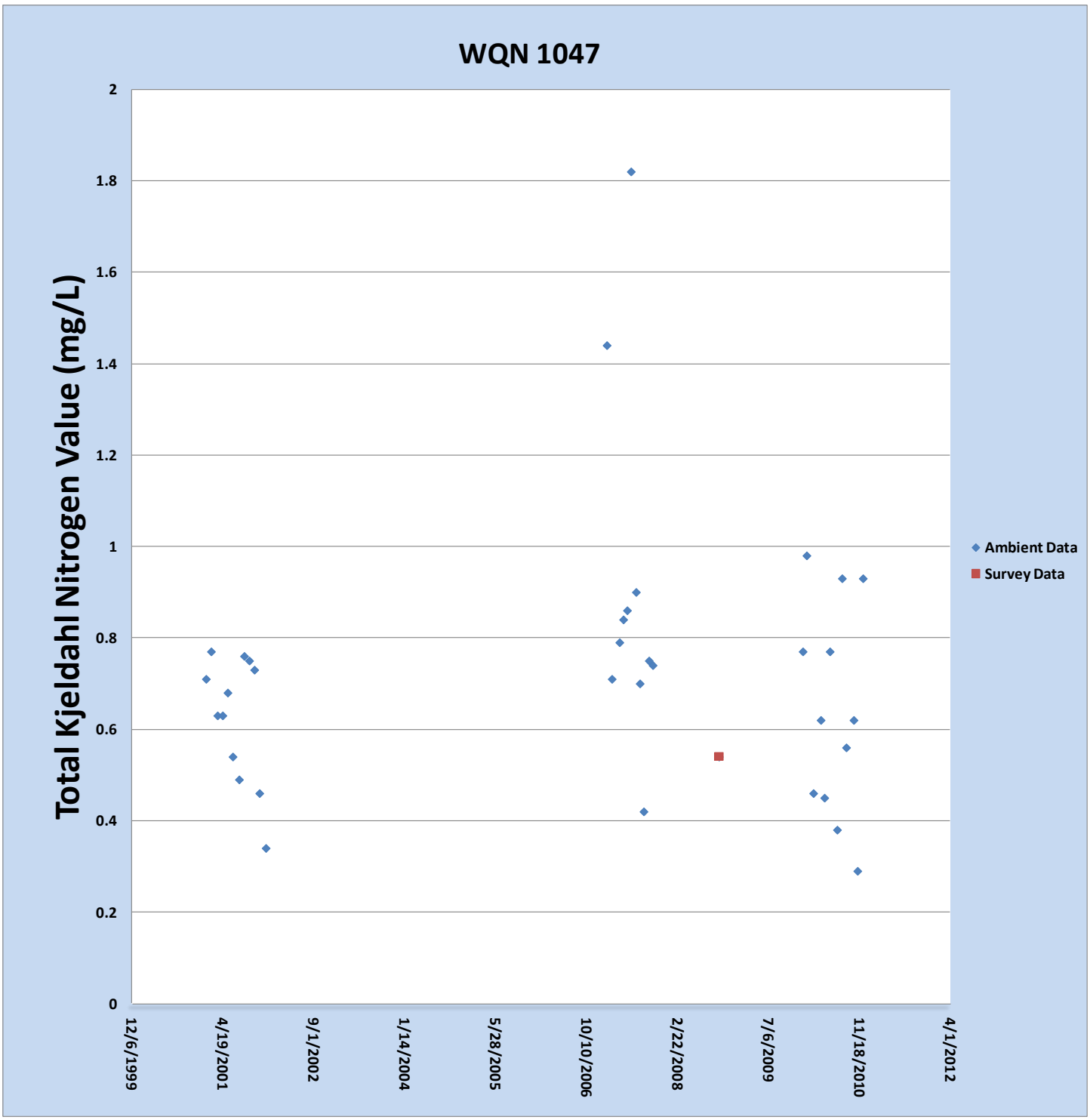
Appendix G5 – WQN 1047 Ambient vs Survey Site BL08 Data Graphs

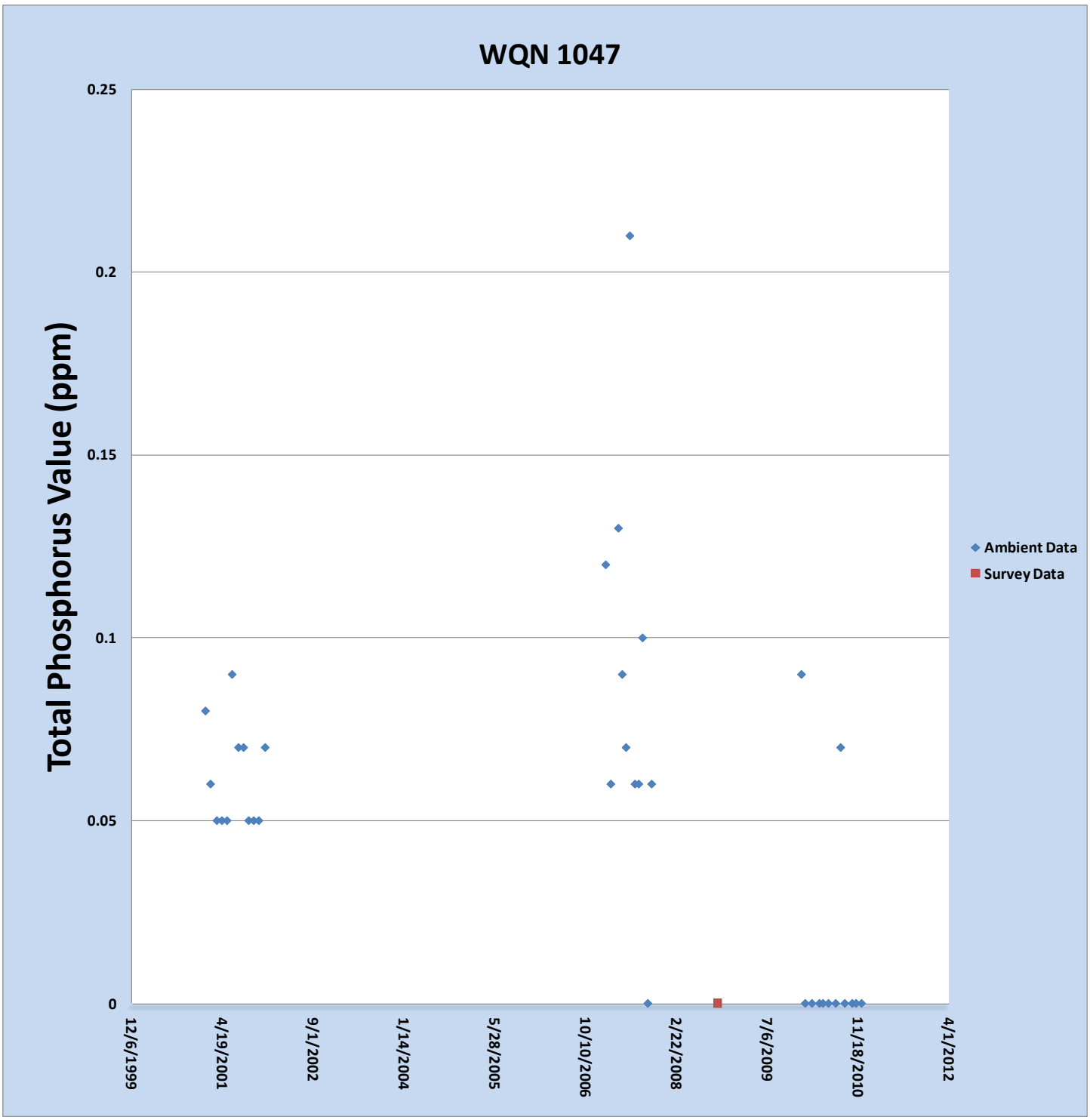

WQN 1047
Ammonia Nitrogen Value (mg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
Ambient Data
Survey Data

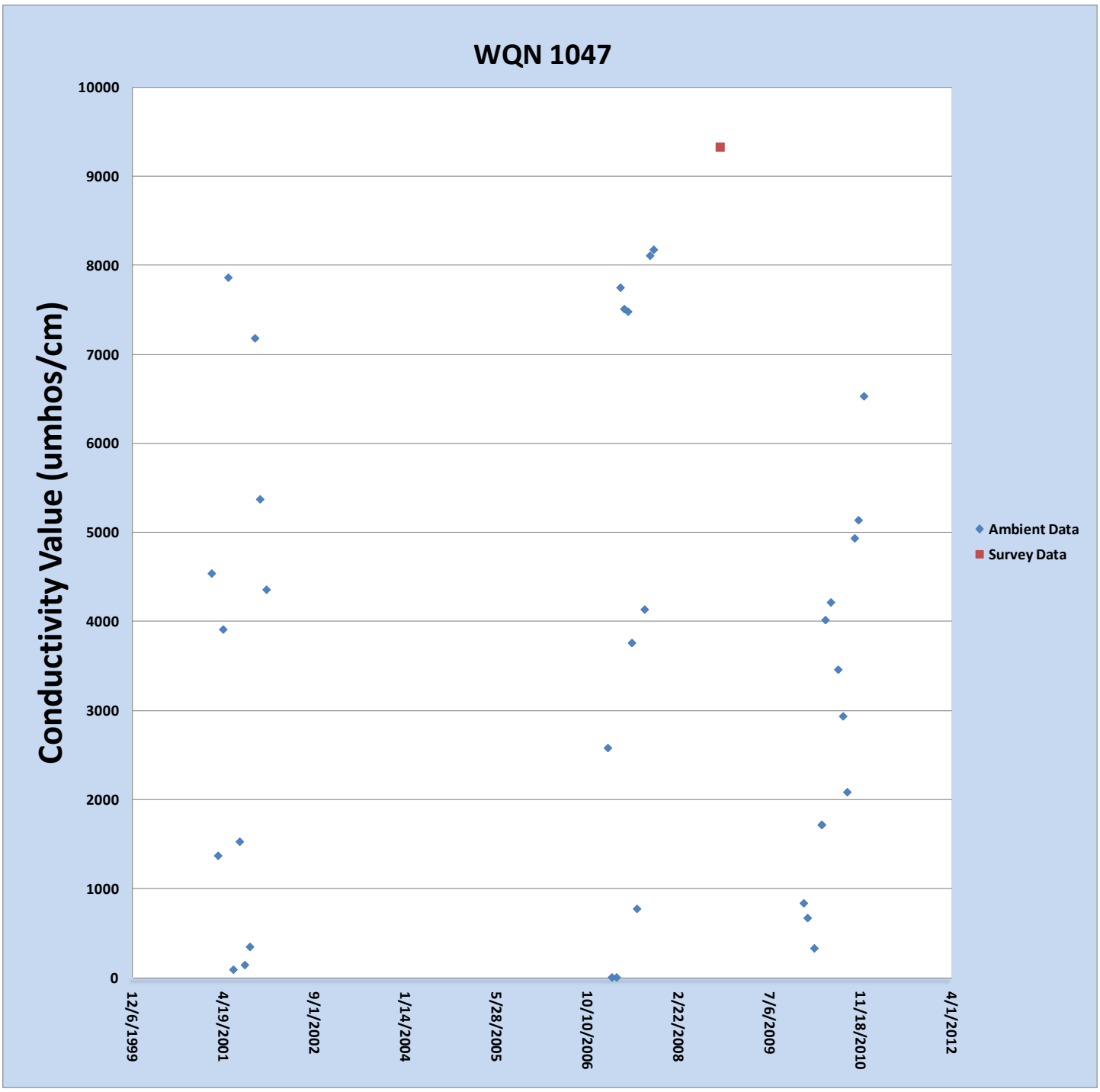

WQN 1047
Chloride Value (ppm)
7000
6000
5000
4000
3000
2000
1000
0
7/24/1998
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
Ambient Data
Survey Data

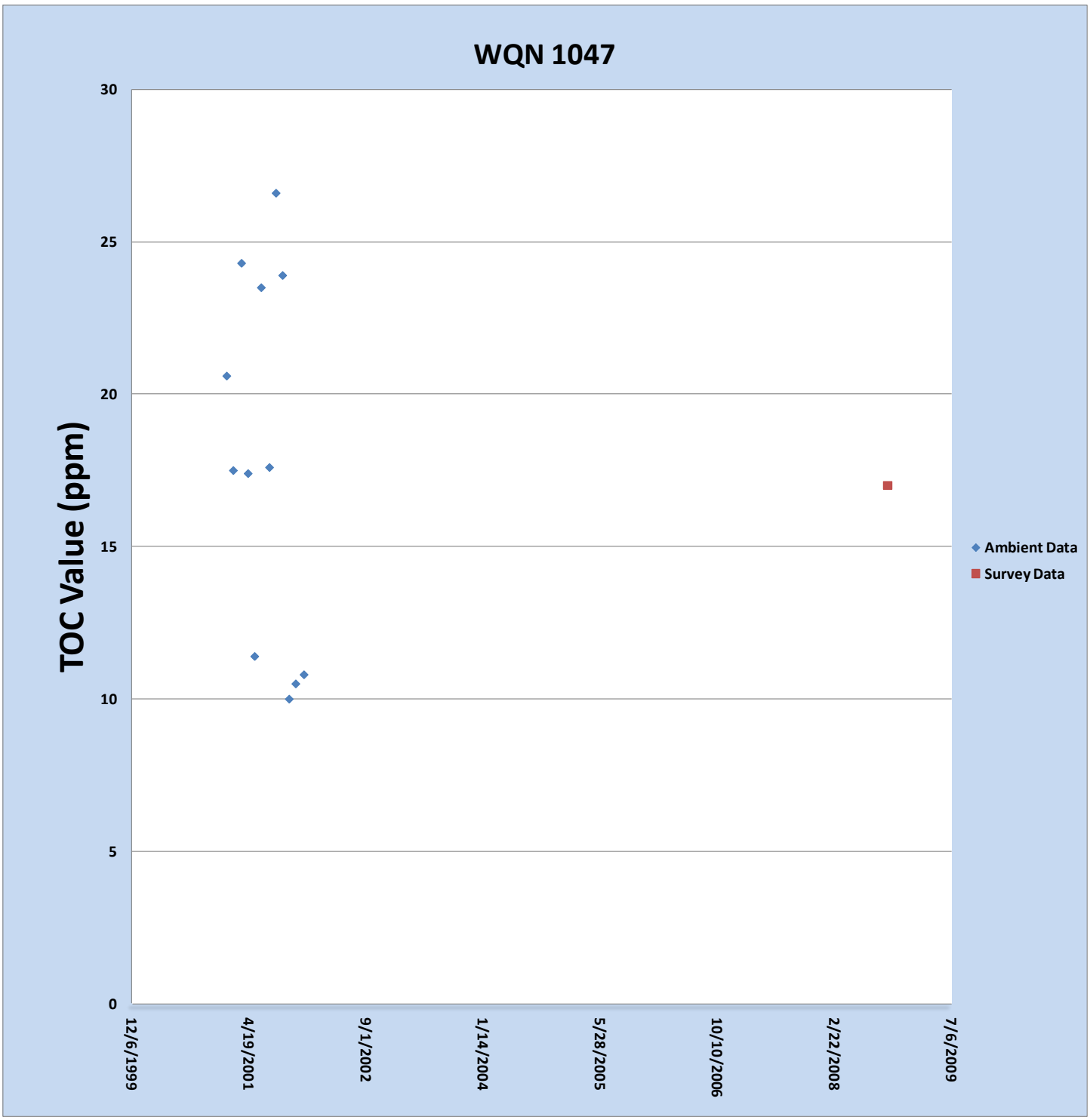

WQN 1047
Color Value (PCU)
300
250
200
150
100
50
0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
Ambient Data
Survey Data

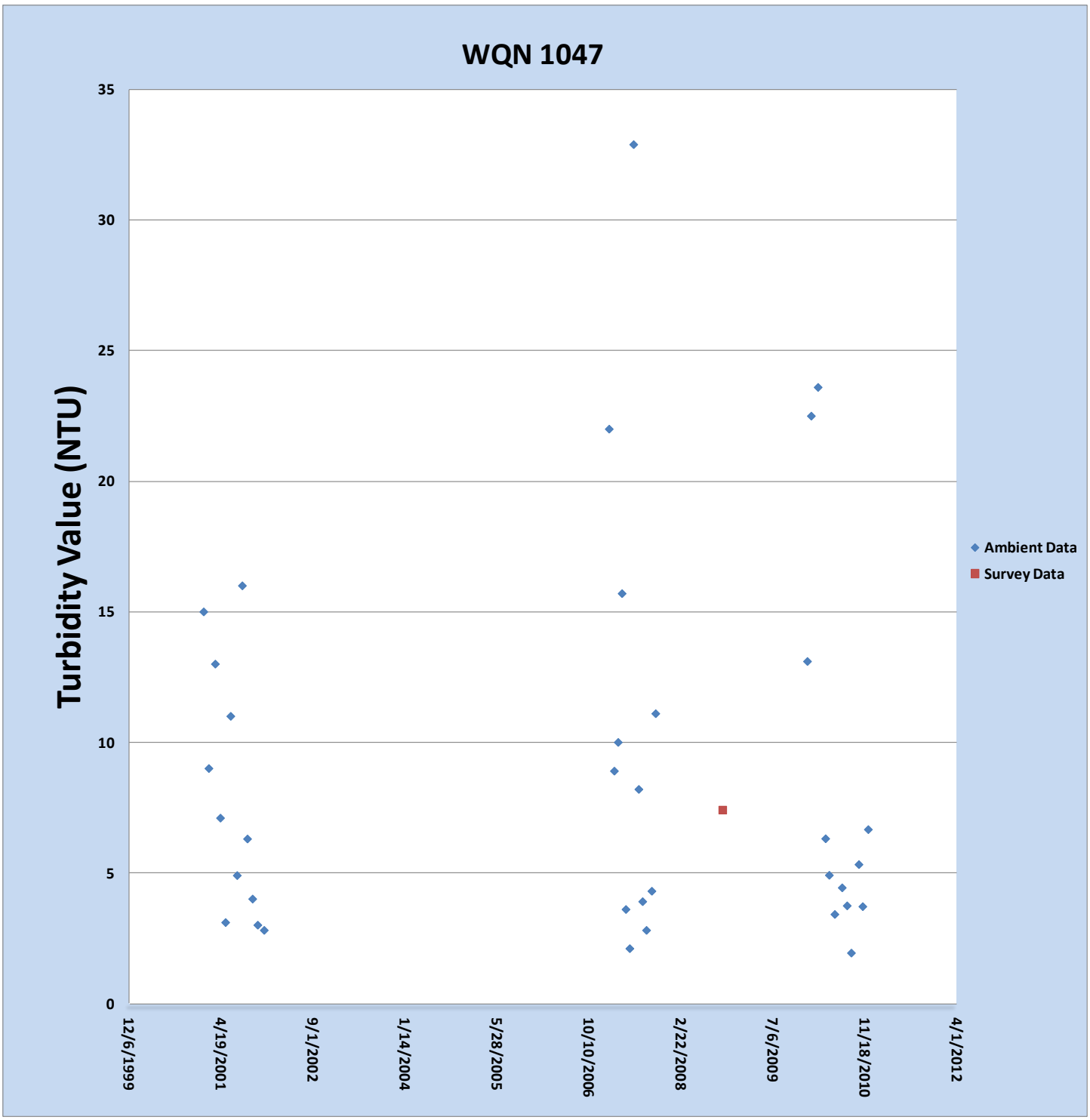

WQN 1047
Nitrate + Nitrite Value (mg/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
Ambient Data
Survey Data

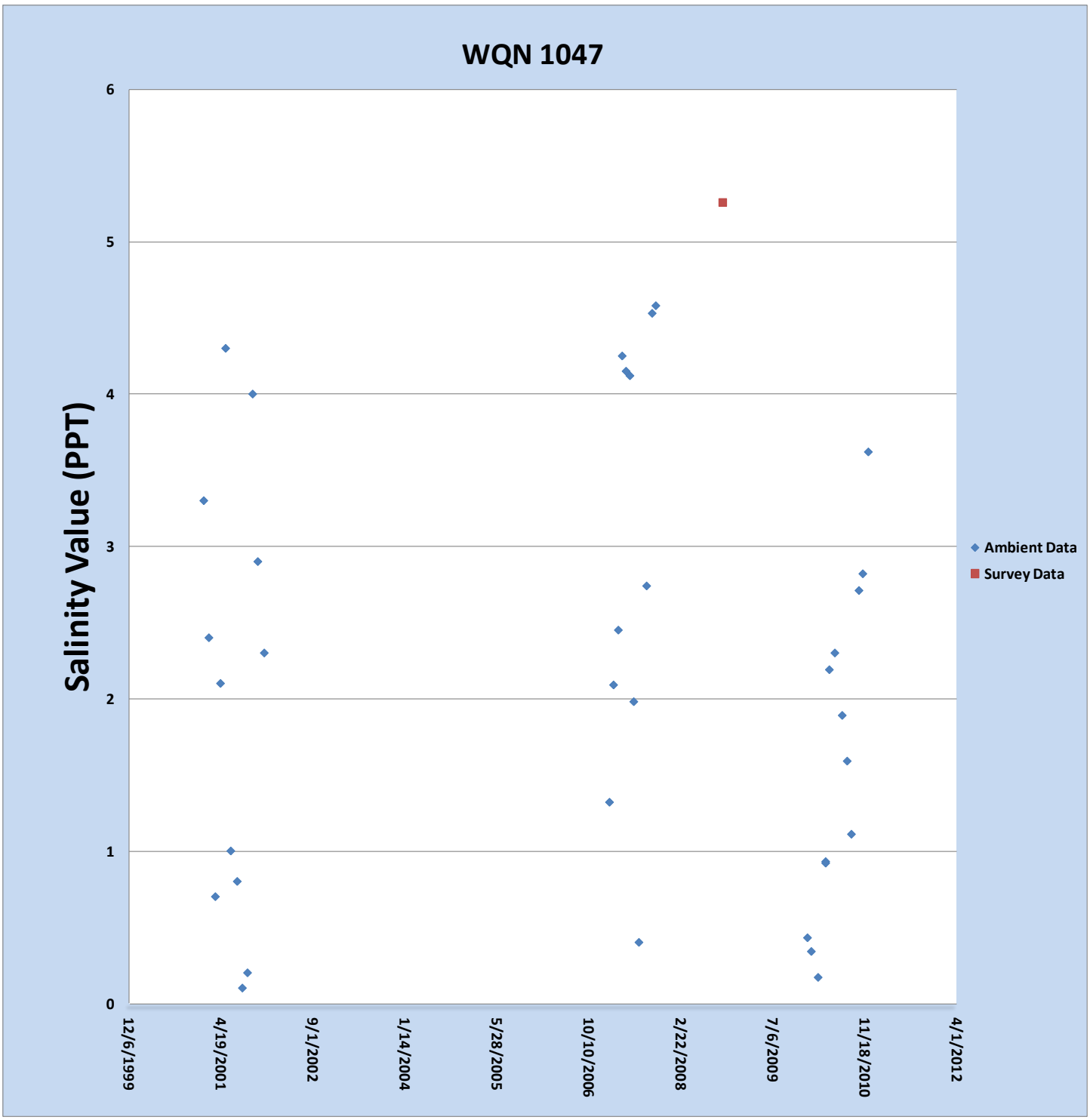

WQN 1047
Total Kjeldahl Nitrogen Value (mg/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
Ambient Data
Survey Data


WQN 1047
Total Phosphorus Value (ppm)
0.25
0.2
0.15
0.1
0.05
0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
Ambient Data
Survey Data


WQN 1047
Conductivity Value (umhos/cm)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
Ambient Data
Survey Data


WQN 1047
TOC Value (ppm)
30
25
20
15
10
5
0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
Ambient Data
Survey Data


WQN 1047
Turbidity Value (NTU)
35
30
25
20
15
10
5
0
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
Ambient Data
Survey Data

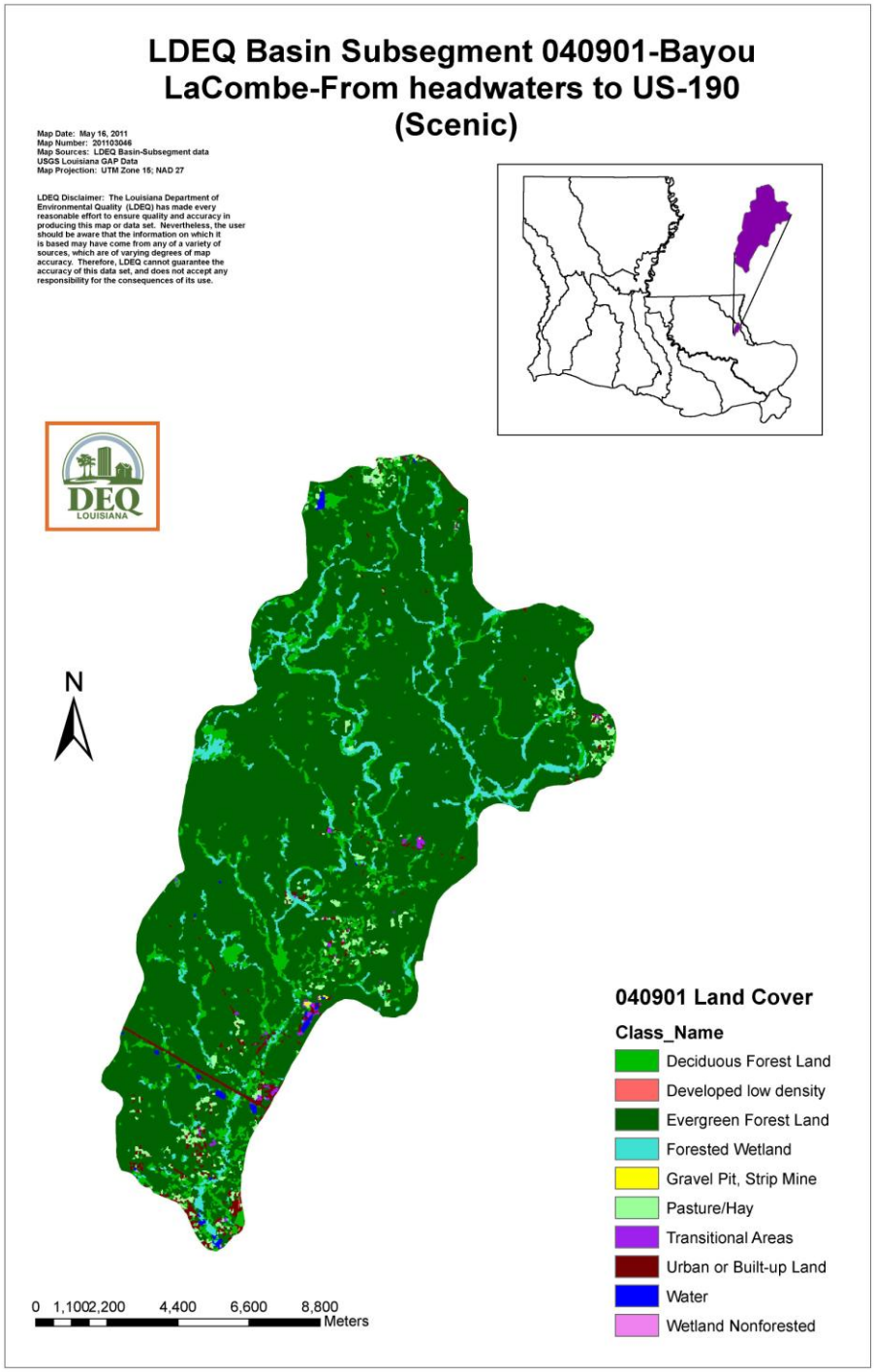

WQN 1047
Salinity Value (PPT)
0
1
2
3
4
5
6
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
Ambient Data
Survey Data

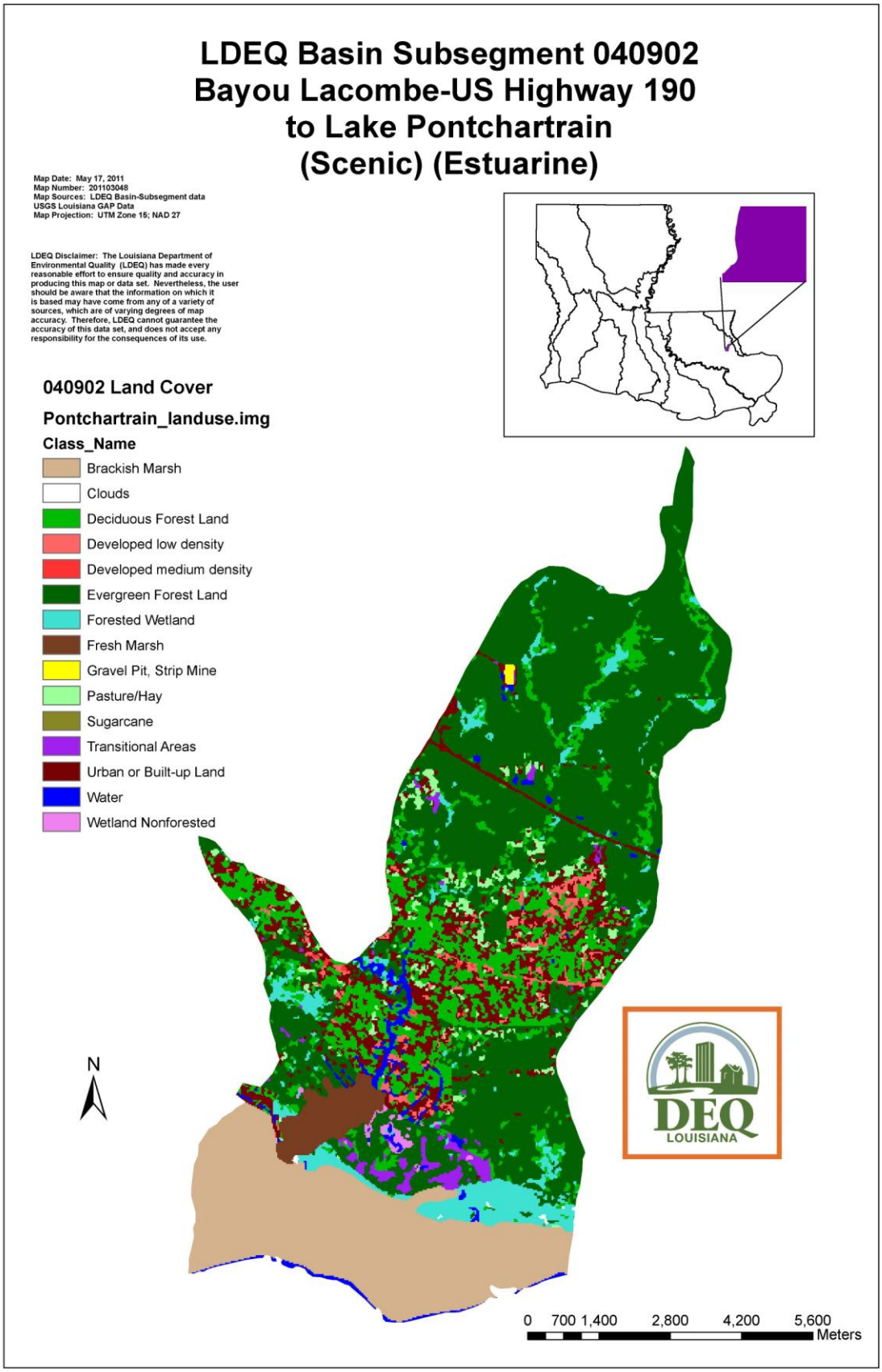
Appendix H – Maps and Diagrams

Appendix H1- Overview map

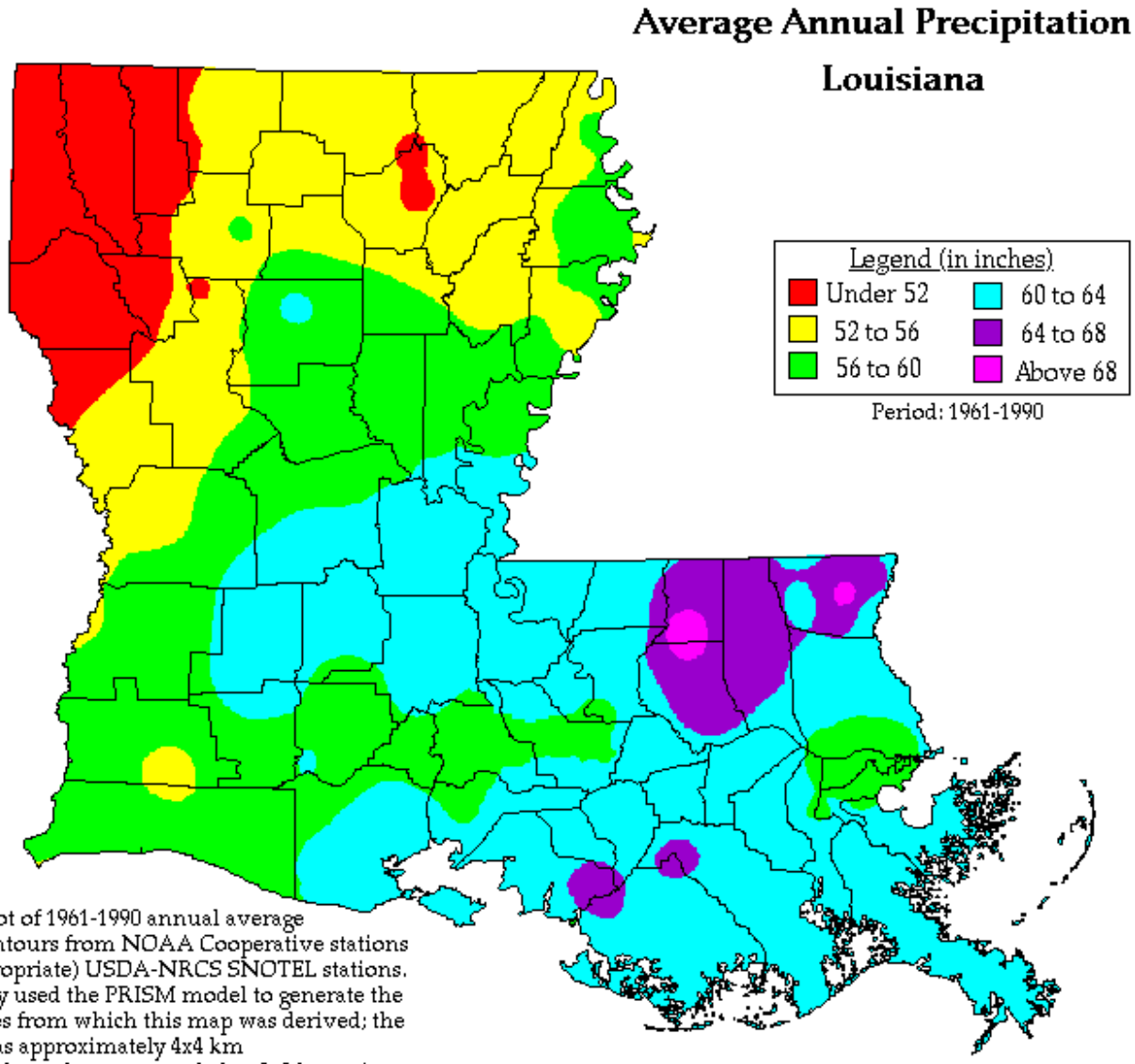
Bayou Lacombe
Subsegments 040901 and 040902
Final Survey Map
DEQ
LOUISIANA
Bayou Lacombe Survey Sites
BL01 - 2270 - Bayou Lacombe on Hwy 36
BL02 - 1250 - Bayou Lacombe on Hwy 434
BL03 - 3690 - Bayou Lacombe on Krentel Road
BL04 - 3692 - Bayou Lacombe 50 yards from I-12
BL05 - 3693 - Bayou Lacombe above fish hatchery
BL06 - 0300 - Bayou Lacombe below Hwy 190
BL07 - 3695 - Bayou Lacombe below Bayou Big Branch
BL08 - 3697 - Bayou Lacombe below Cypress Bayou
BL09 - 3698 - Bayou Lacombe above confluence with Lake Pontchartrain
BB01 - 3694 - Just above confluence with Bayou Lacombe
BB02 - 3842 - Big Branch at Berry Todd Road
BB03 - 3843 - Big Branch at Graci Avenue
CB01 - 3696 - Cypress Bayou at confluence with Bayou Lacombe
CB02 - 3882 - Cypress Bayou at Grand Road
CB03 - 3883 - Cypress Bayou at Farwell Drive
CB05 - 3887 - Cypress Bayou at Shannon Drive
LP01 - 3699 - Lake Pontchartrain at confluence with Bayou Lacombe
UNT01 - 3691 - Unnamed tributary just below I-12
BL01
BL02
BL03
BL04
UNT01
BB03
BL05
BB02
CB05
BB01
BL06
BL07
WQN 0300
CB03
CB01
BL08
CB02
WQN 1047
BL09
LP01
Legend
Bayou Lacombe Survey Sites
Bayou Lacombe Water Quality Network Sites
Bayou Lacombe Route
Big Branch Route
Cypress Bayou Route
040901 Subsegment Boundary
040902 Subsegment Boundary
N
0 900 1,800 3,600 5,400 7,200
Meters
Map date: 7/28/2011
Map number: 201103069
Map sources: USGS, DEQ
Map projection: UTM Zone 15
Map datum: NAD83
DEQ/OEA/WQAD/WQM
LDEQ Disclaimer: The Louisiana Department of Environmental Quality(LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.

Appendix H2 – Land Use Map


LDEQ Basin Subsegment 040901-Bayou LaCombe-From headwaters to US-190 (Scenic)
Map Date: May 16, 2011
Map Number: 201103046
Map Sources: LDEQ Basin-Subsegment data
USGS Louisiana GAP Data
Map Projection: UTM Zone 15; NAD 27
LDEQ Disclaimer: The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.
DEQ
LOUISIANA
N
040901 Land Cover
Class_Name
Deciduous Forest Land
Developed low density
Evergreen Forest Land
Forested Wetland
Gravel Pit, Strip Mine
Pasture/Hay
Transitional Areas
Urban or Built-up Land
Water
Wetland Nonforested
0 1,100 2,200 4,400 6,600 8,800
Meters


LDEQ Basin Subsegment 040902
Bayou Lacombe-US Highway 190
to Lake Pontchartrain
(Scenic) (Estuarine)
Map Date: May 17, 2011
Map Number: 201103048
Map Sources: LDEQ Basin-Subsegment data
USGS Louisiana GAP Data
Map Projection: UTM Zone 15; NAD 27
LDEQ Disclaimer: The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.
040902 Land Cover
Pontchartrain_landuse.img
Class_Name
Brackish Marsh
Clouds
Deciduous Forest Land
Developed low density
Developed medium density
Evergreen Forest Land
Forested Wetland
Fresh Marsh
Gravel Pit, Strip Mine
Pasture/Hay
Sugarcane
Transitional Areas
Urban or Built-up Land
Water
Wetland Nonforested
N
DEQ
LOUISIANA
0 700 1,400 2,800 4,200 5,600
Meters

Appendix H3 – La Precipitation Map

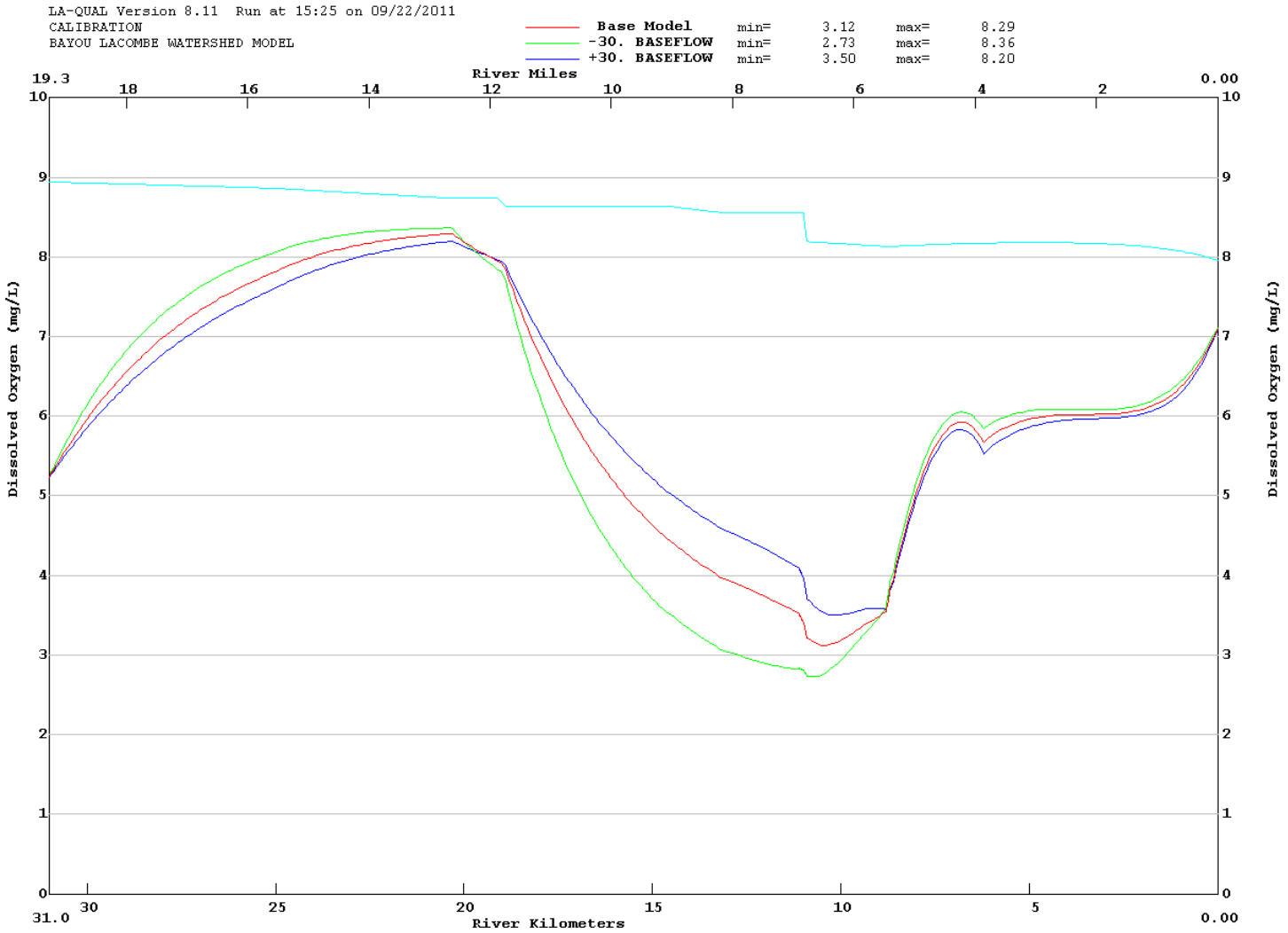


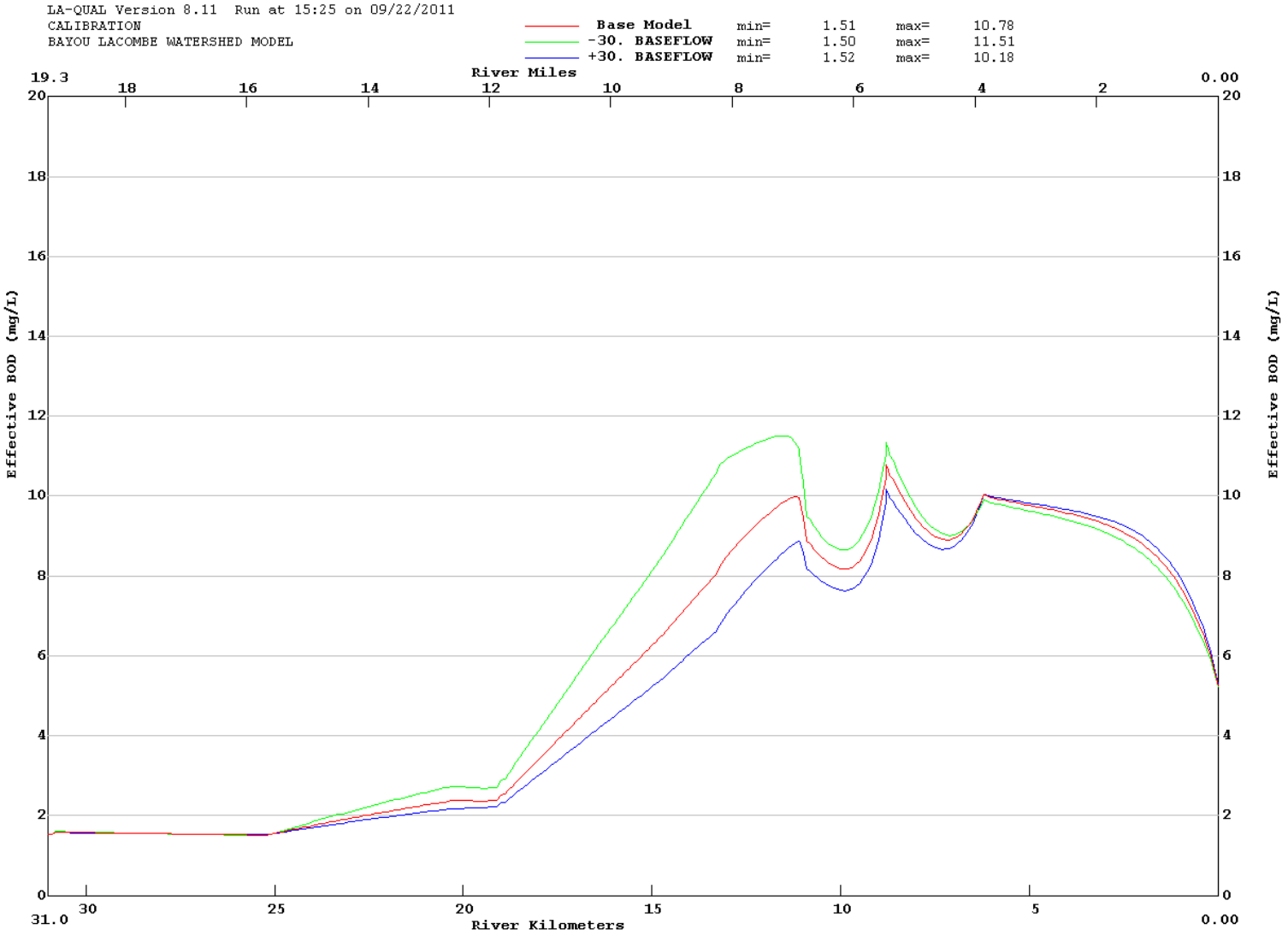
This map is a plot of 1961-1990 annual average precipitation contours from NOAA Cooperative stations and (where appropriate) USDA-NRCS SNOTEL stations. Christopher Daly used the PRISM model to generate the gridded estimates from which this map was derived; the modeled grid was approximately 4x4 km latitude/longitude, and was resampled to 2x2 km using a Gaussian filter. Mapping was performed by Jenny Weisburg. Funding was provided by USDA-NRCS National Water and Climate Center.

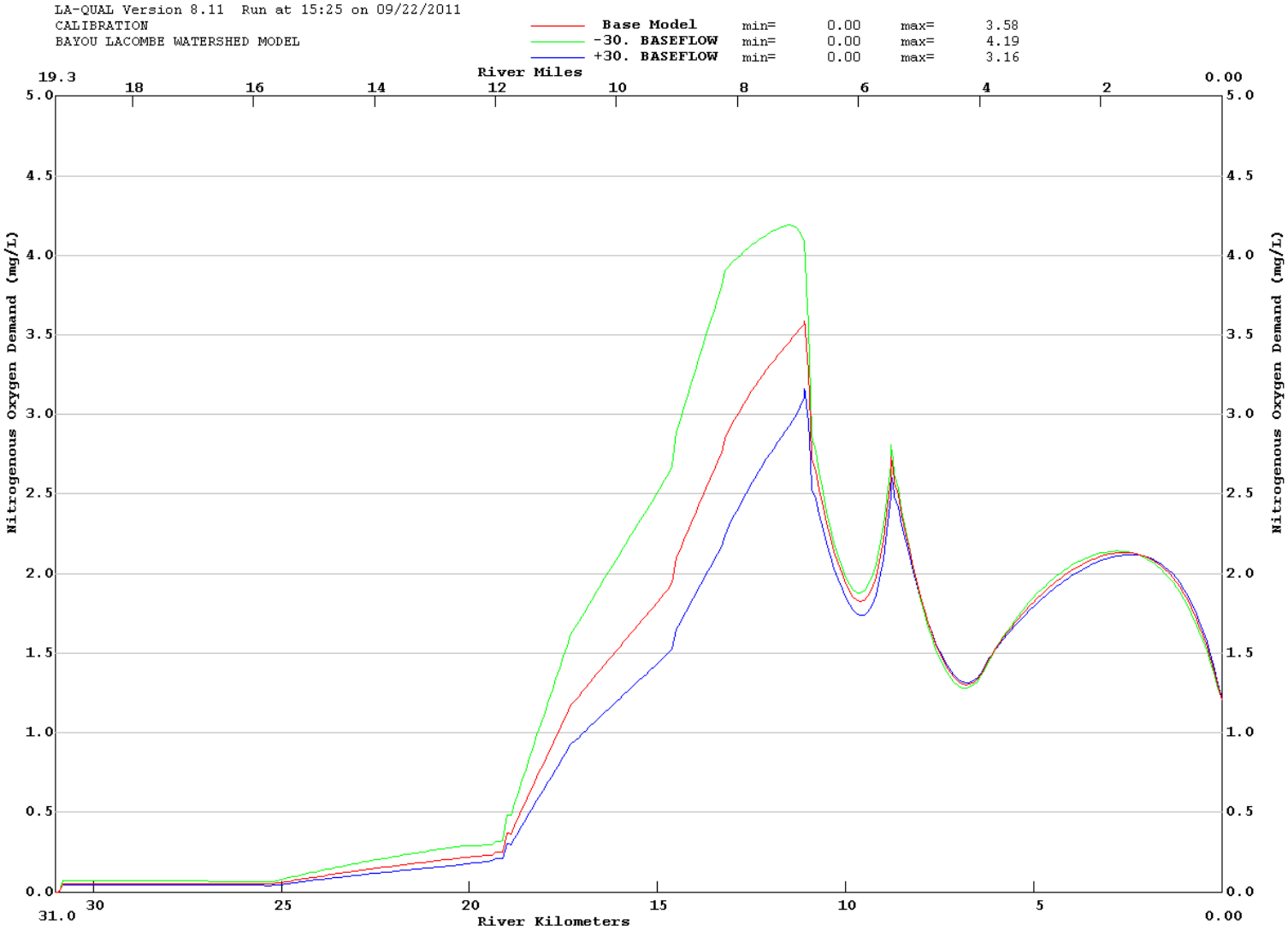
Appendix I – Sensitivity Analysis

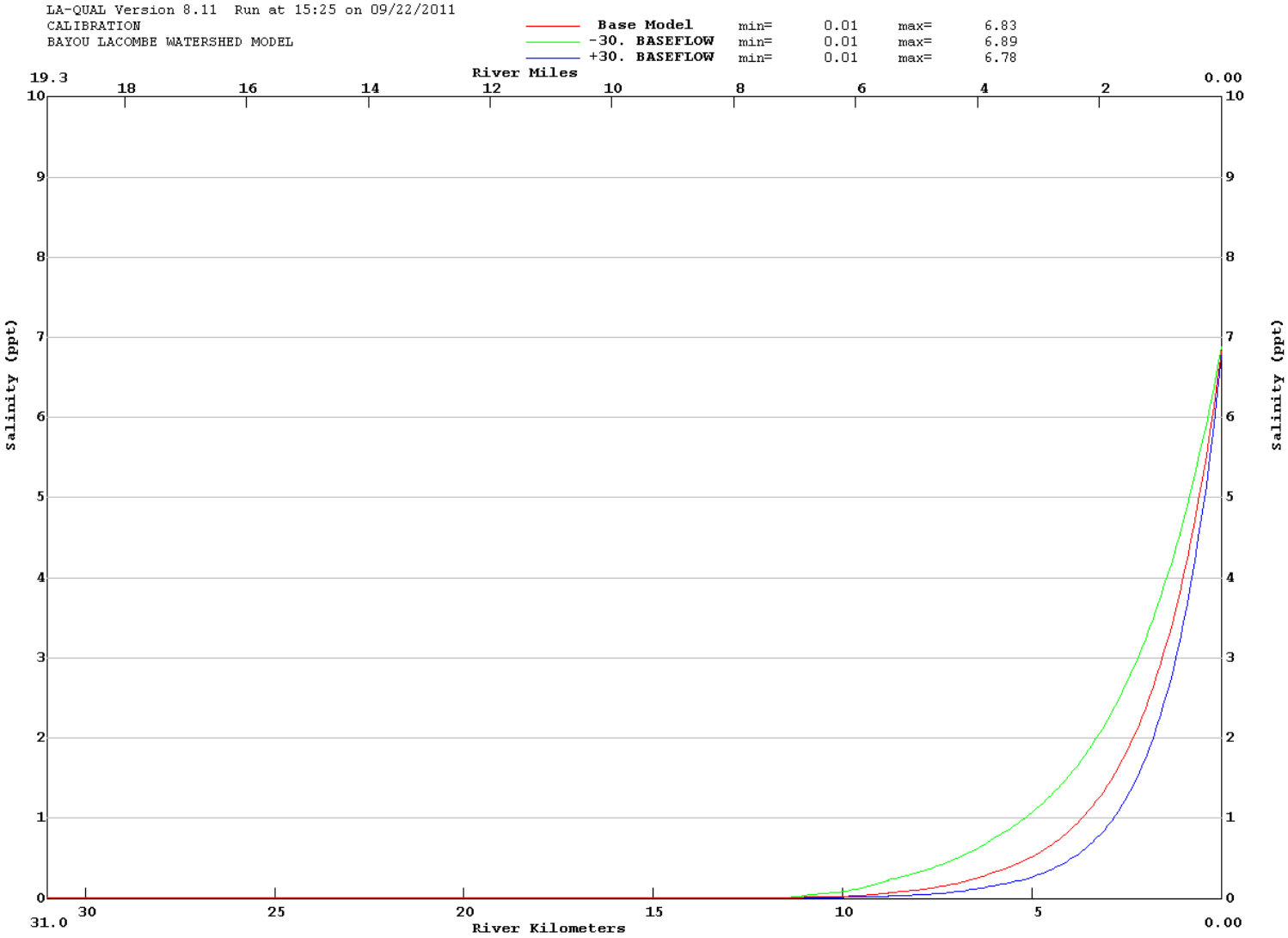
Appendix I1 – Sensitivity Output Graphs

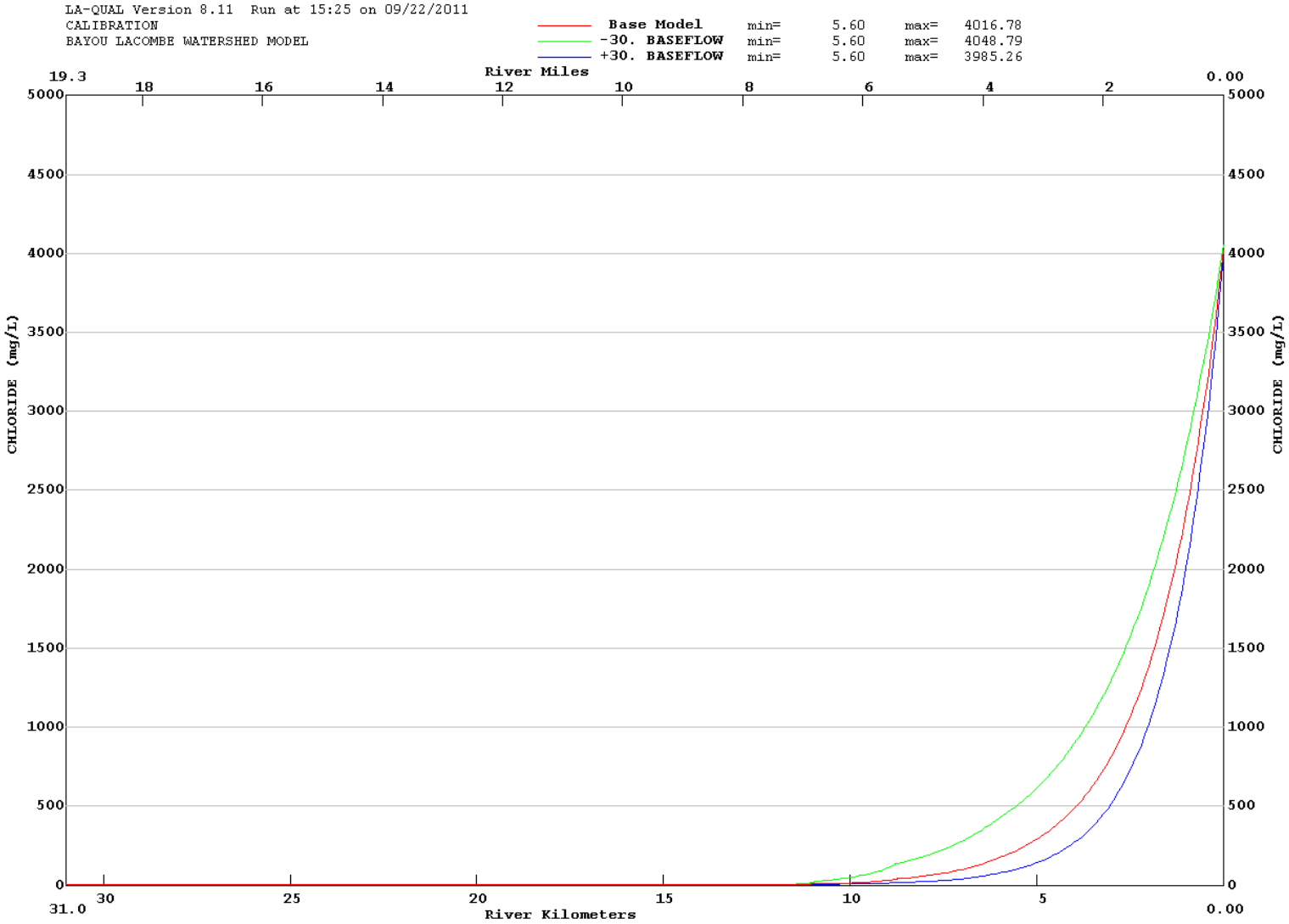
Bayou Lacombe Mainstem

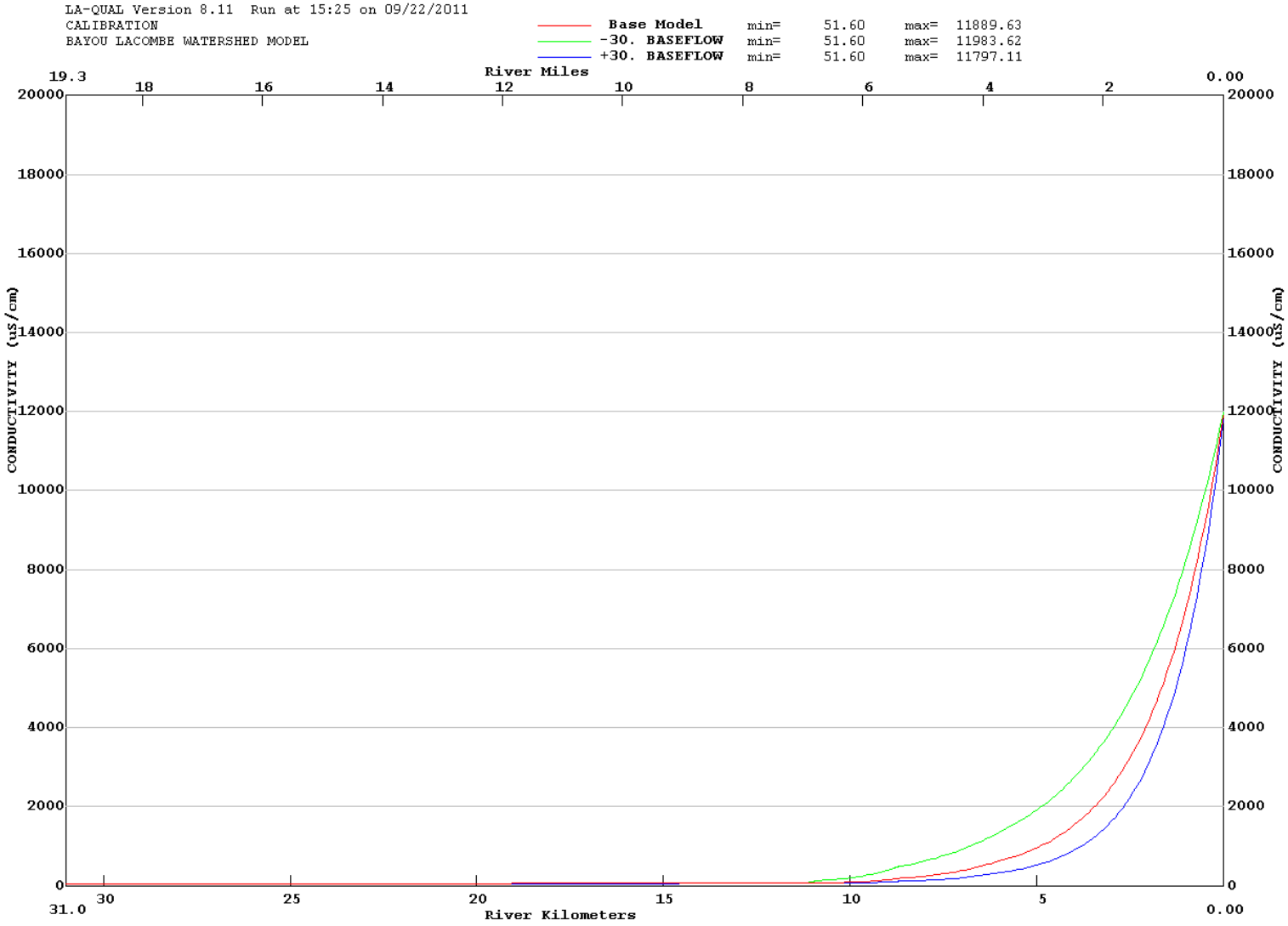


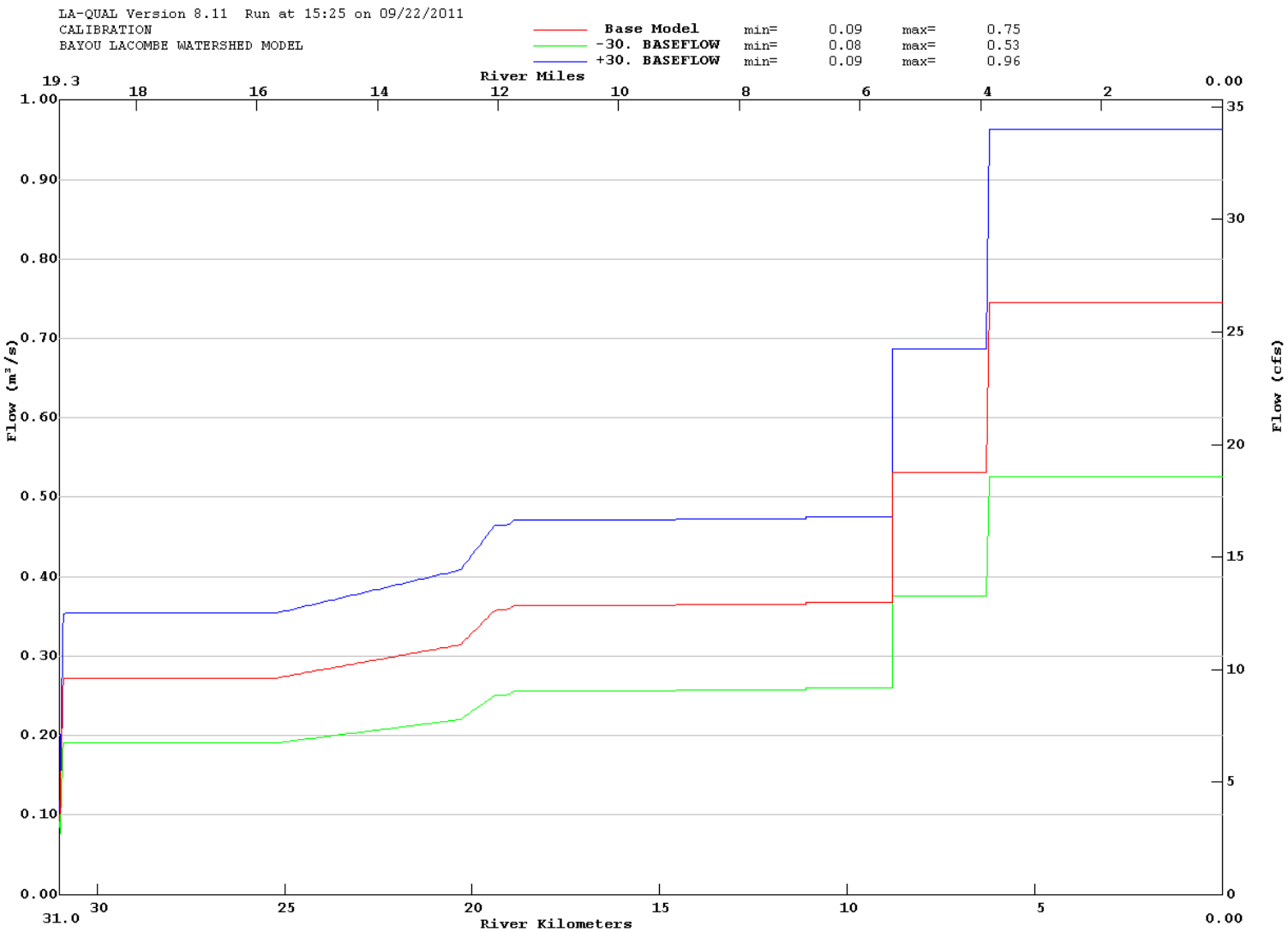

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 1.51 max= 10.78
-30. BASEFLOW min= 1.50 max= 11.51
+30. BASEFLOW min= 1.52 max= 10.18
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Effective BOD (mg/L)
20
18
16
14
12
10
8
6
4
2
0
31.0
30
25
20
15
10
5
0.00
River Kilometers

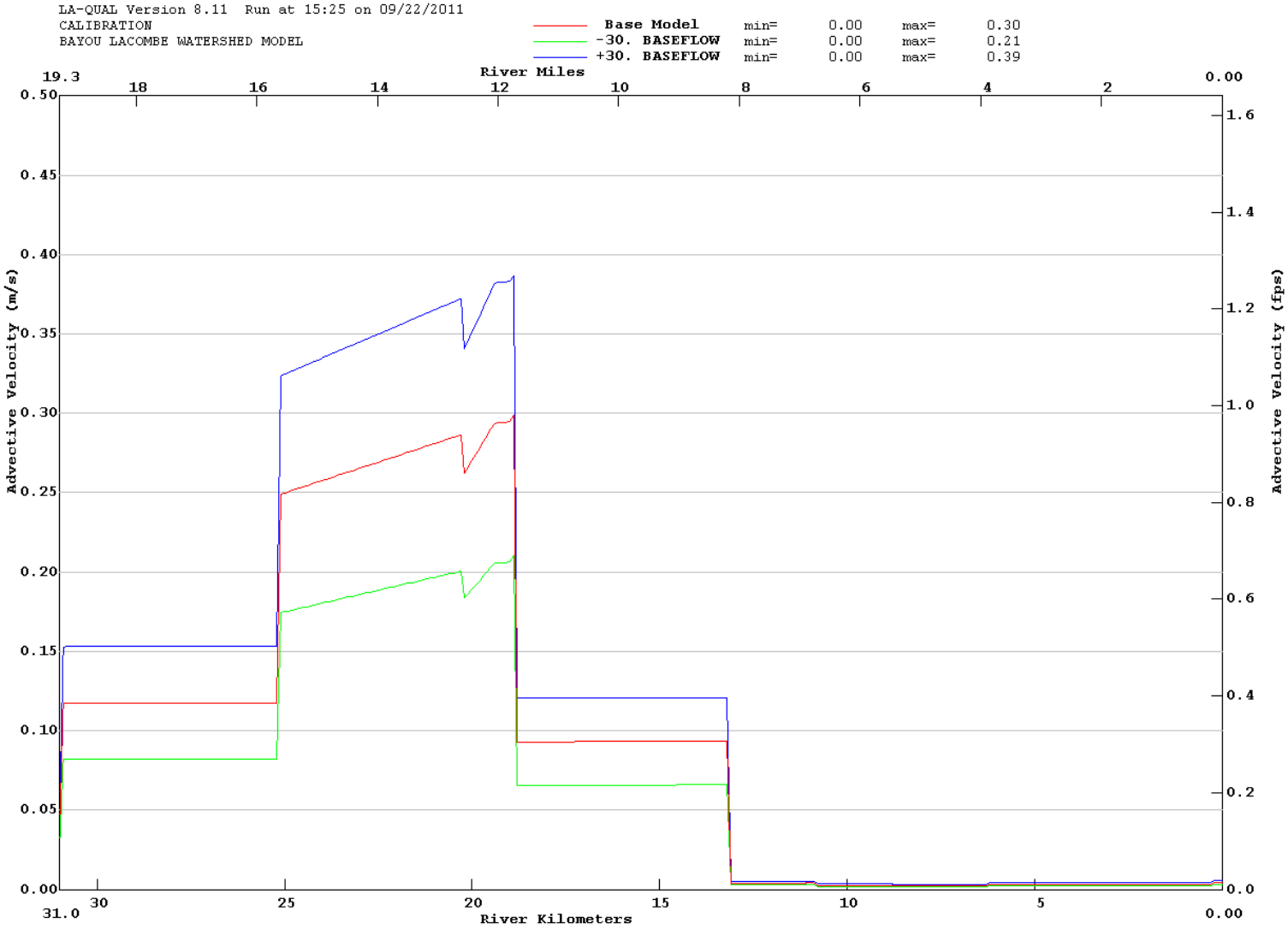

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.00 max= 3.58
-30. BASEFLOW min= 0.00 max= 4.19
+30. BASEFLOW min= 0.00 max= 3.16
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Nitrogenous Oxygen Demand (mg/L)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
31.0
30
25
20
15
10
5
0.00
River Kilometers

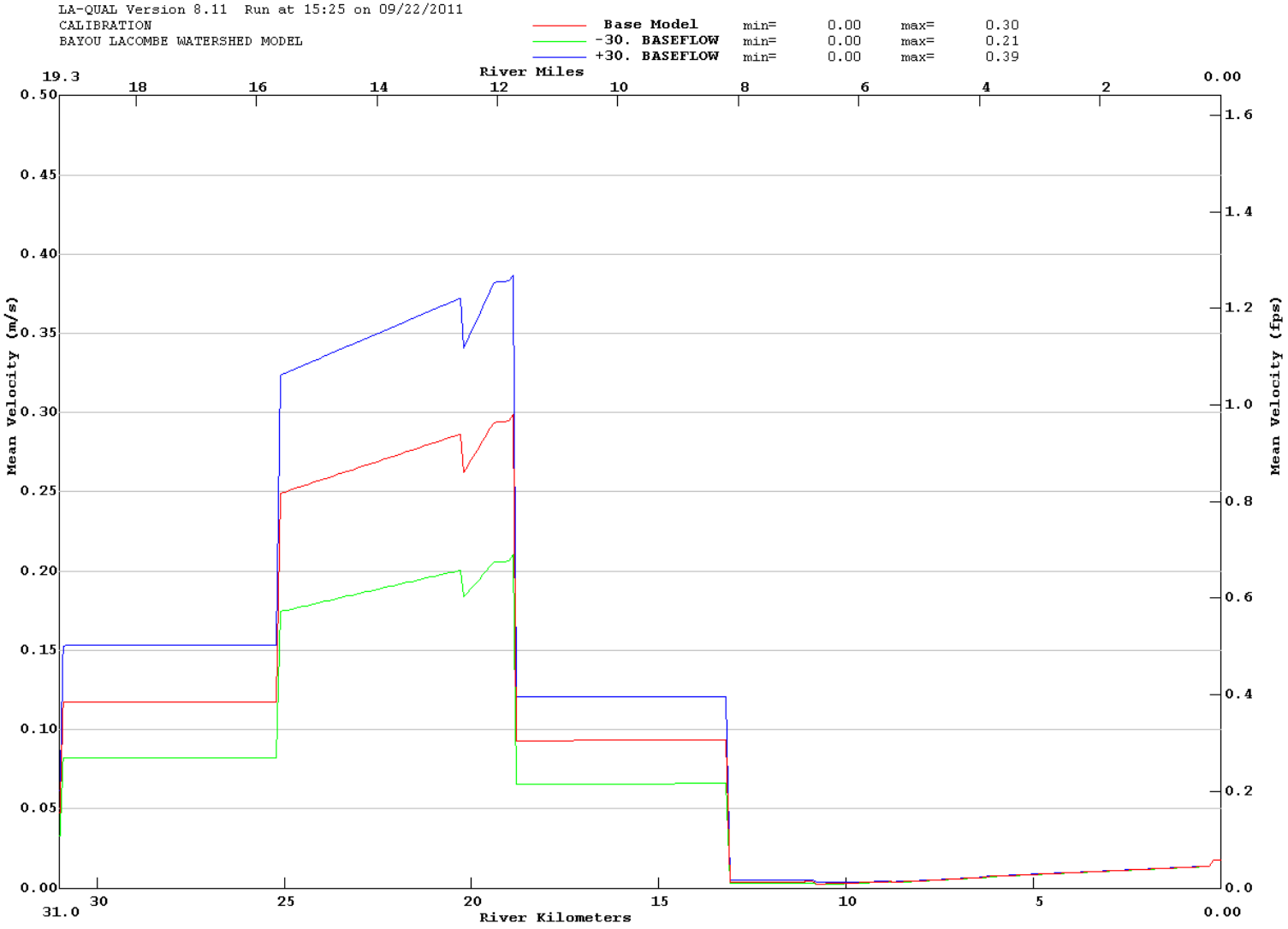

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.01 max= 6.83
-30. BASEFLOW min= 0.01 max= 6.89
+30. BASEFLOW min= 0.01 max= 6.78
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Salinity (ppt)
10
9
8
7
6
5
4
3
2
1
0
31.0
30
25
20
15
10
5
0.00
River Kilometers

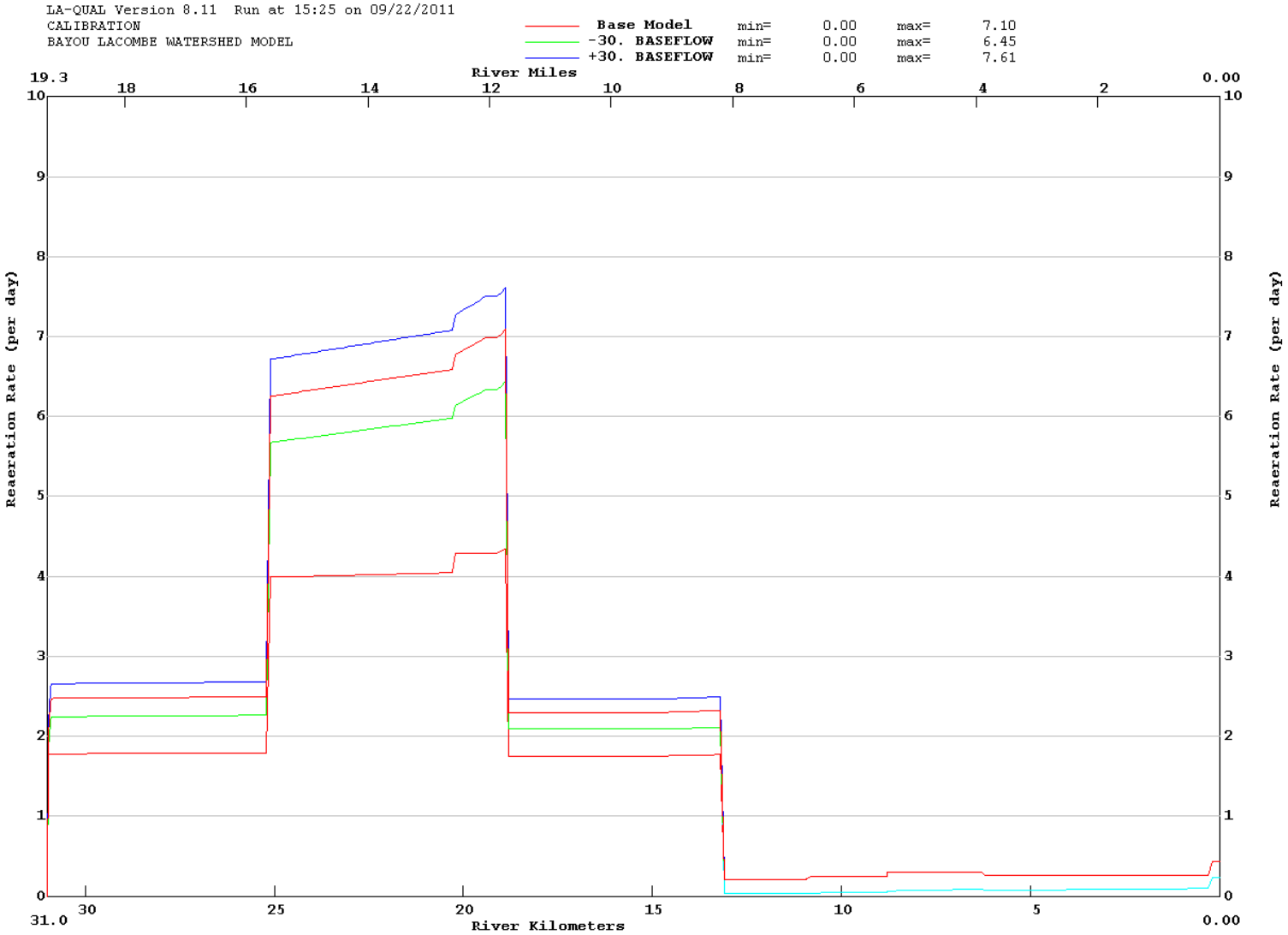

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 5.60 max= 4016.78
-30. BASEFLOW min= 5.60 max= 4048.79
+30. BASEFLOW min= 5.60 max= 3985.26
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
CHLORIDE (mg/L)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
31.0
30
25
20
15
10
5
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 51.60 max= 11889.63
-30. BASEFLOW min= 51.60 max= 11983.62
+30. BASEFLOW min= 51.60 max= 11797.11
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
CONDUCTIVITY (uS/cm)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
31.0
30
25
20
15
10
5
0.00
River Kilometers

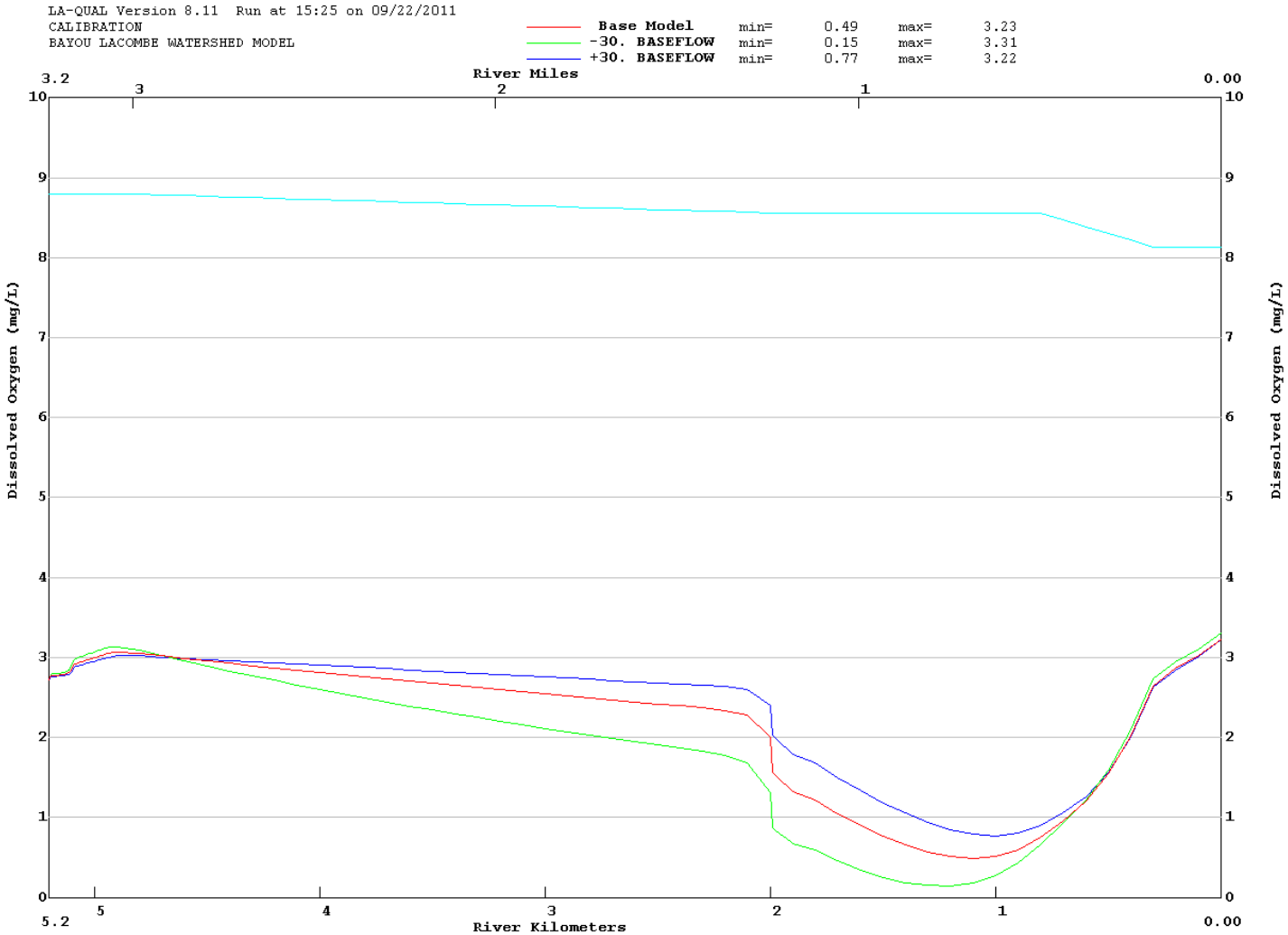

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.09 max= 0.75
-30. BASEFLOW min= 0.08 max= 0.53
+30. BASEFLOW min= 0.09 max= 0.96
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Flow (m³/s)
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Flow (cfs)
35
30
25
20
15
10
5
0
31.0
30
25
20
15
10
5
0.00
River Kilometers

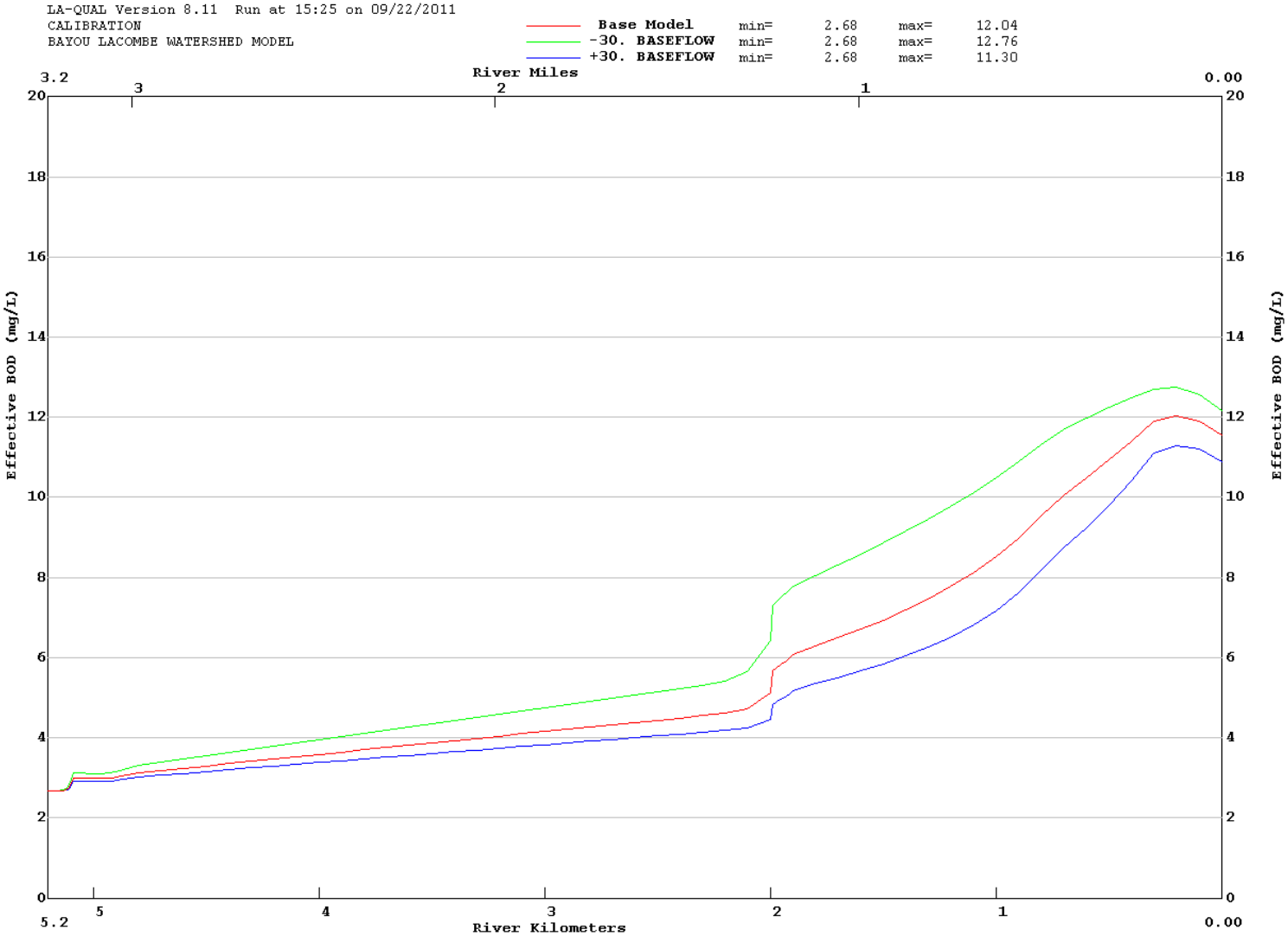

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.00 max= 0.30
-30. BASEFLOW min= 0.00 max= 0.21
+30. BASEFLOW min= 0.00 max= 0.39
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Advective Velocity (m/s)
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Advective Velocity (fps)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
31.0
30
25
20
15
10
5
0.00
River Kilometers

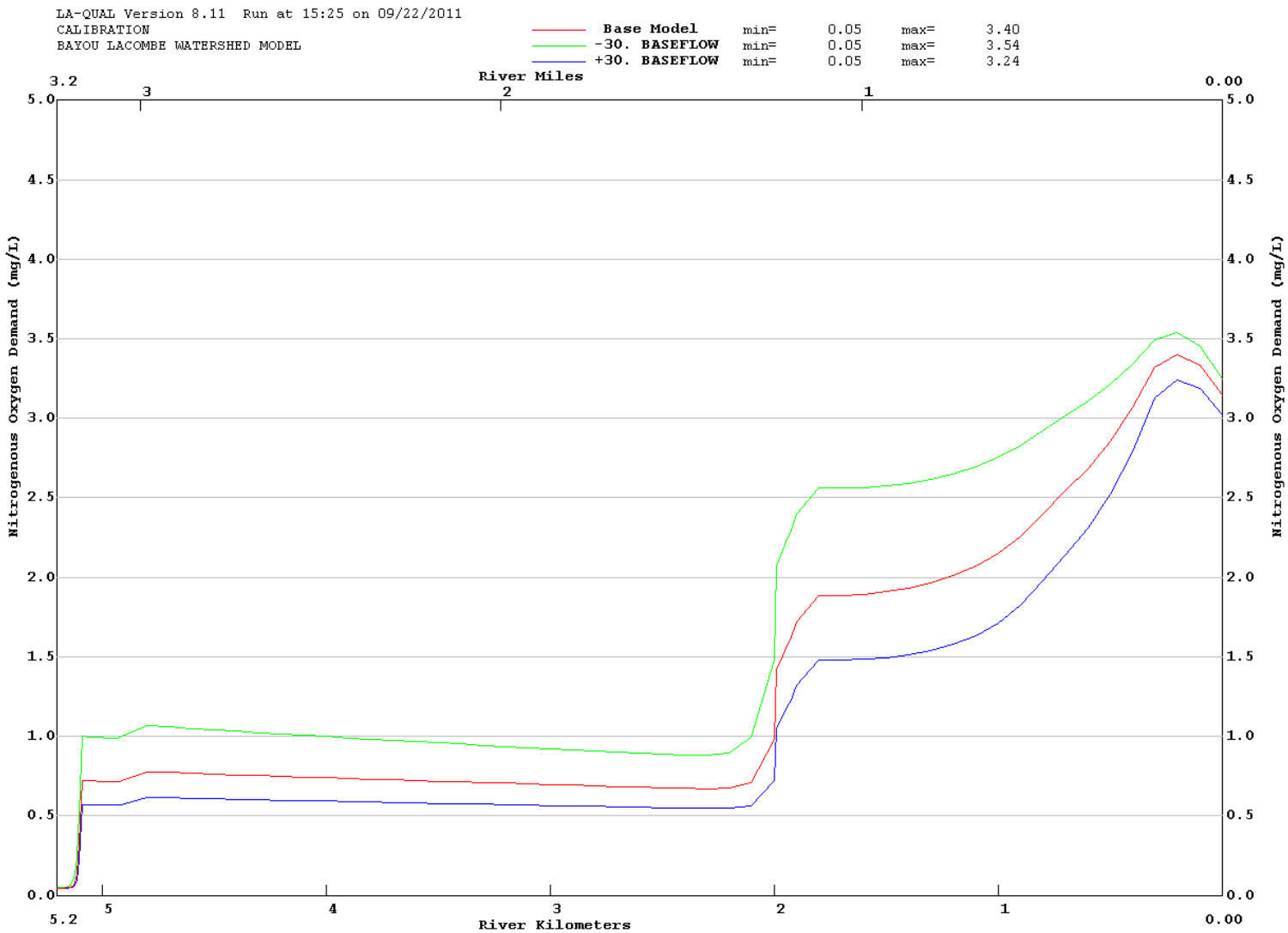

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.00 max= 0.30
-30. BASEFLOW min= 0.00 max= 0.21
+30. BASEFLOW min= 0.00 max= 0.39
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Mean Velocity (m/s)
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Mean Velocity (fps)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
31.0
30
25
20
15
10
5
0.00
River Kilometers

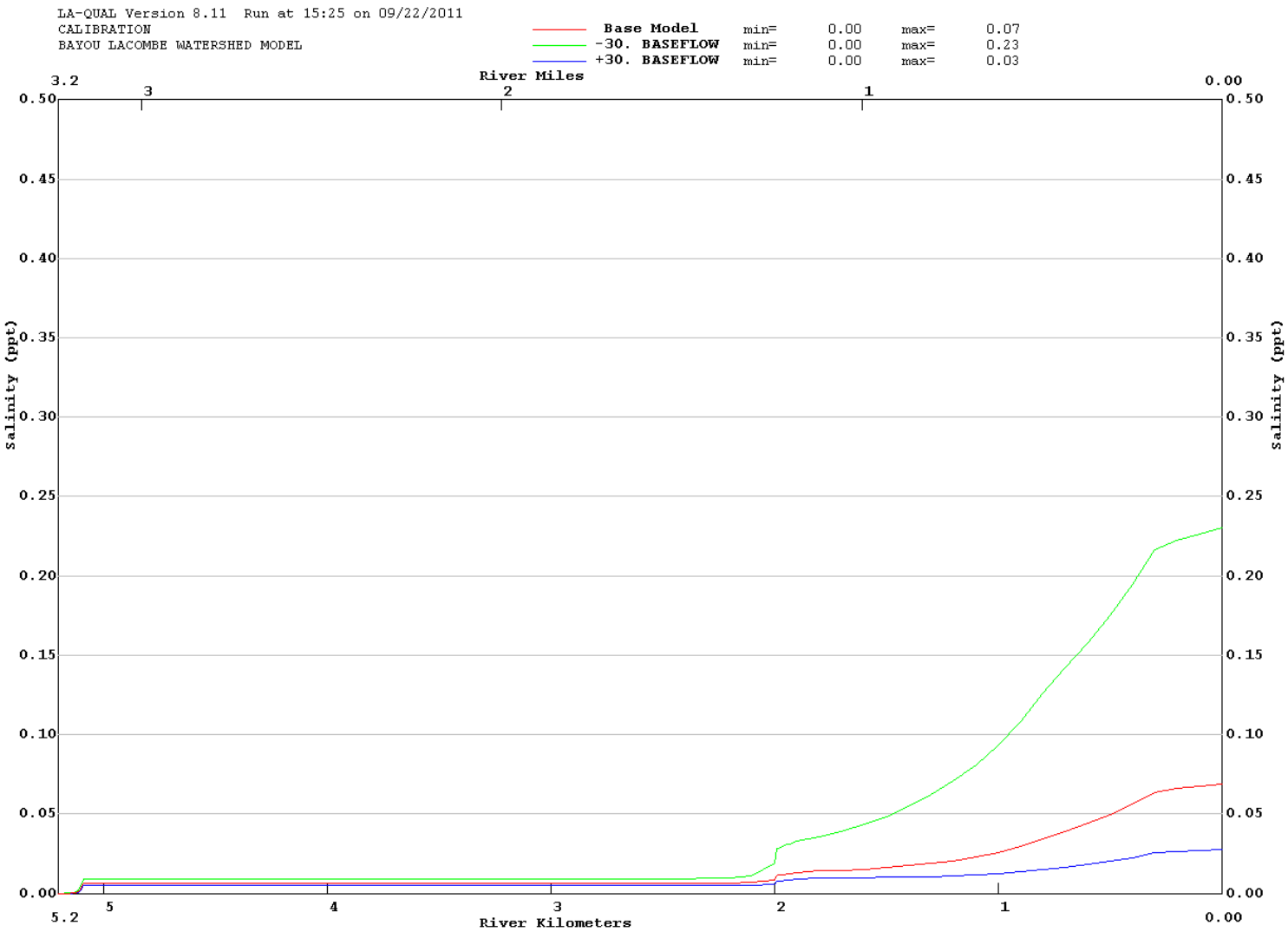

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.00 max= 7.10
-30. BASEFLOW min= 0.00 max= 7.61
+30. BASEFLOW min= 0.00 max= 7.61
River Miles
19.3
18
16
14
12
10
8
6
4
2
0.00
Reaeration Rate (per day)
0
1
2
3
4
5
6
7
8
9
10
31.0
30
25
20
15
10
5
0.00
River Kilometers

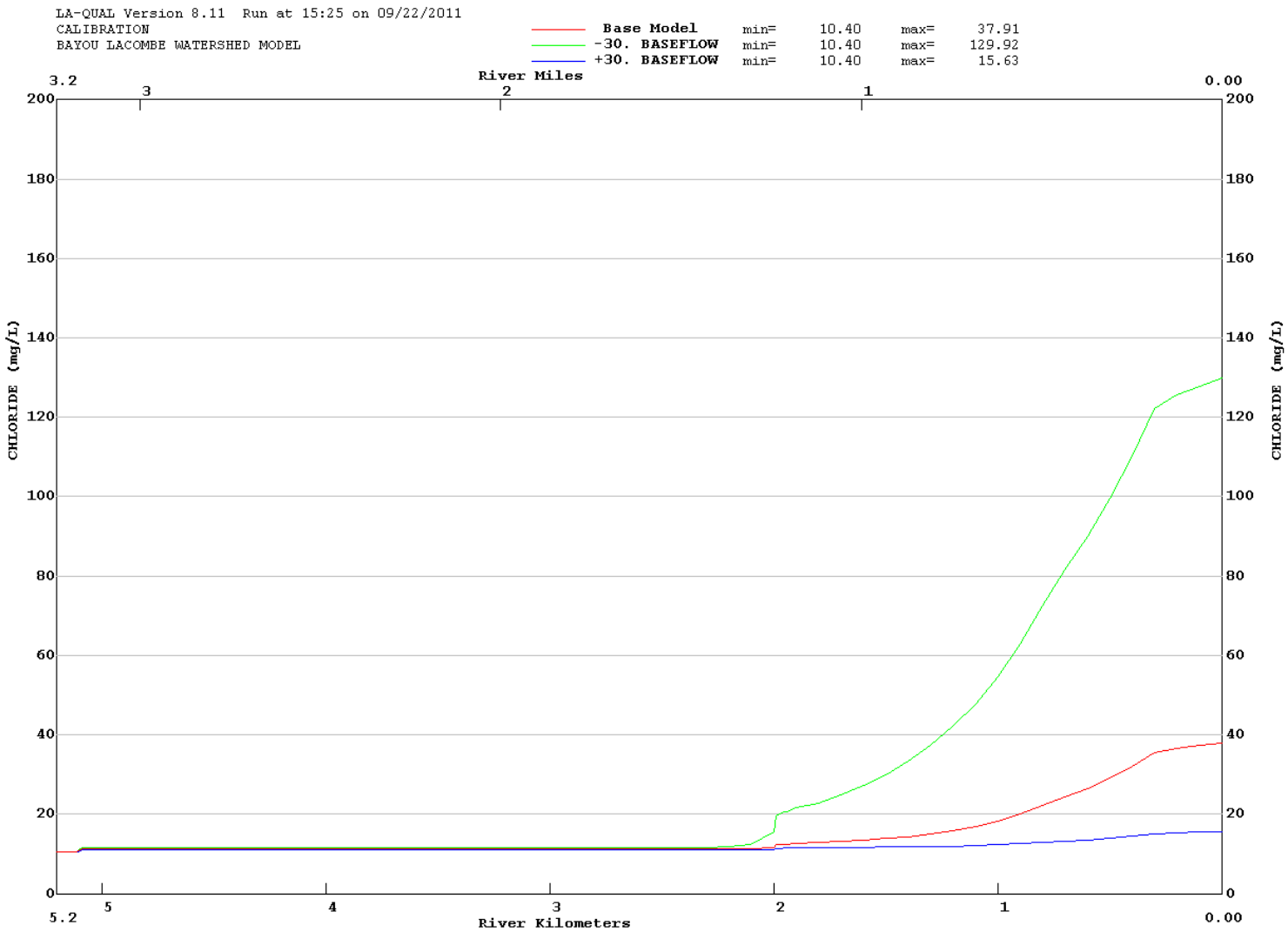
Big Branch

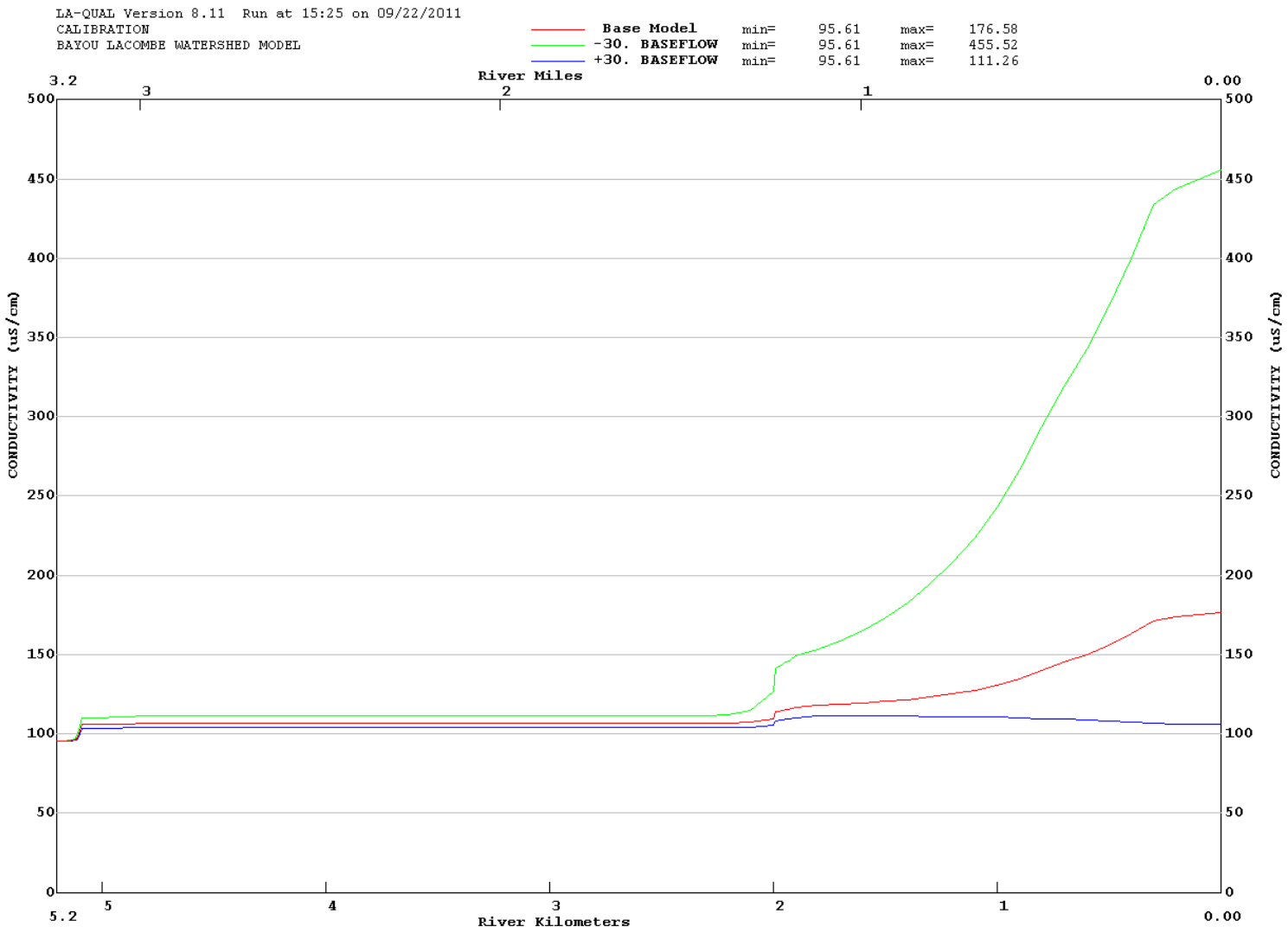

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.49 max= 3.23
-30. BASEFLOW min= 0.15 max= 3.31
+30. BASEFLOW min= 0.77 max= 3.22
River Miles
3.2
3
2
1
0.00
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
5.2
5
4
3
2
1
0.00
River Kilometers

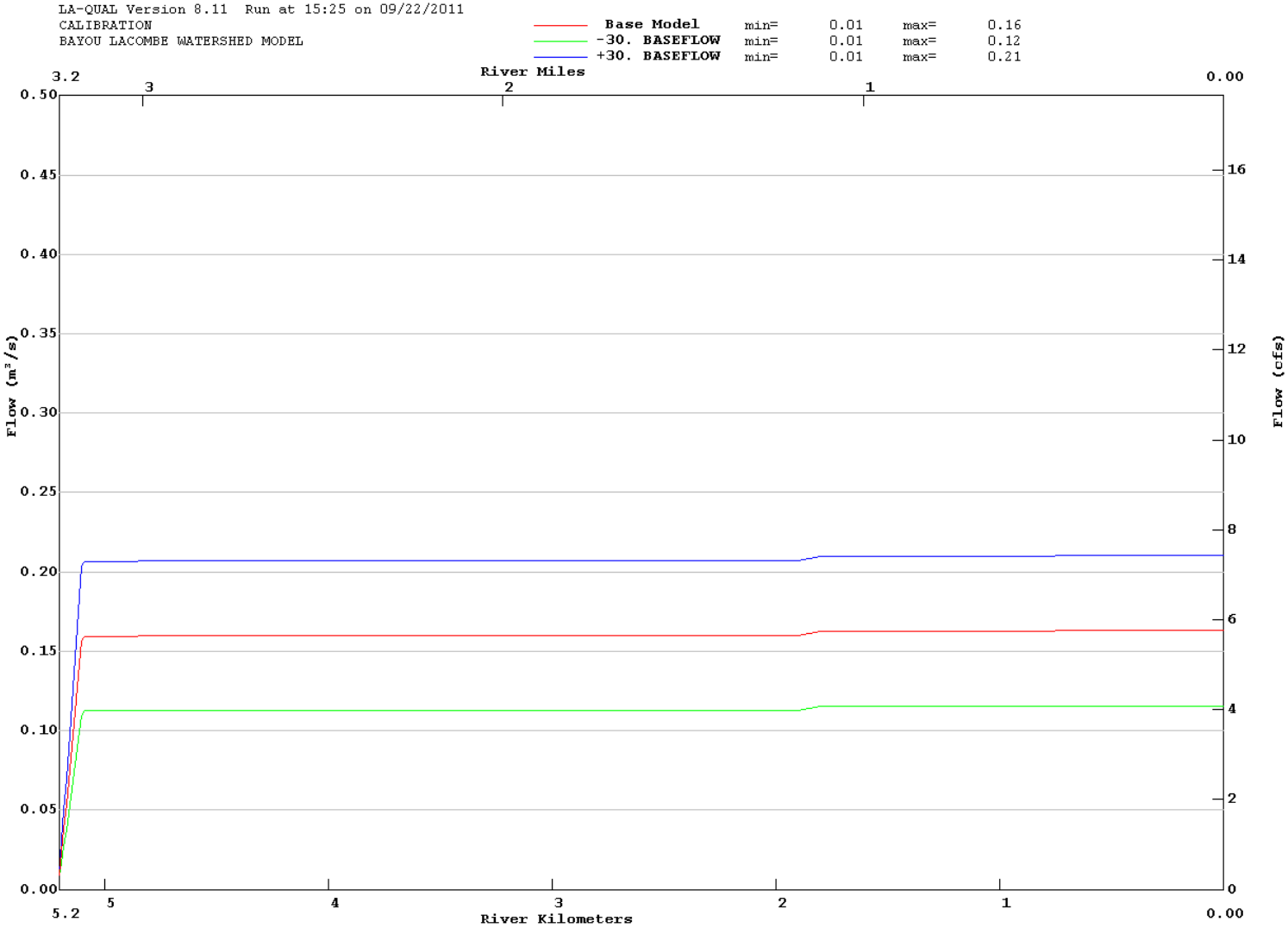

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 2.68 max= 12.04
-30. BASEFLOW min= 2.68 max= 12.76
+30. BASEFLOW min= 2.68 max= 11.30
River Miles
3.2
3
2
1
0.00
Effective BOD (mg/L)
20
18
16
14
12
10
8
6
4
2
0
5.2
5
4
3
2
1
0.00
River Kilometers

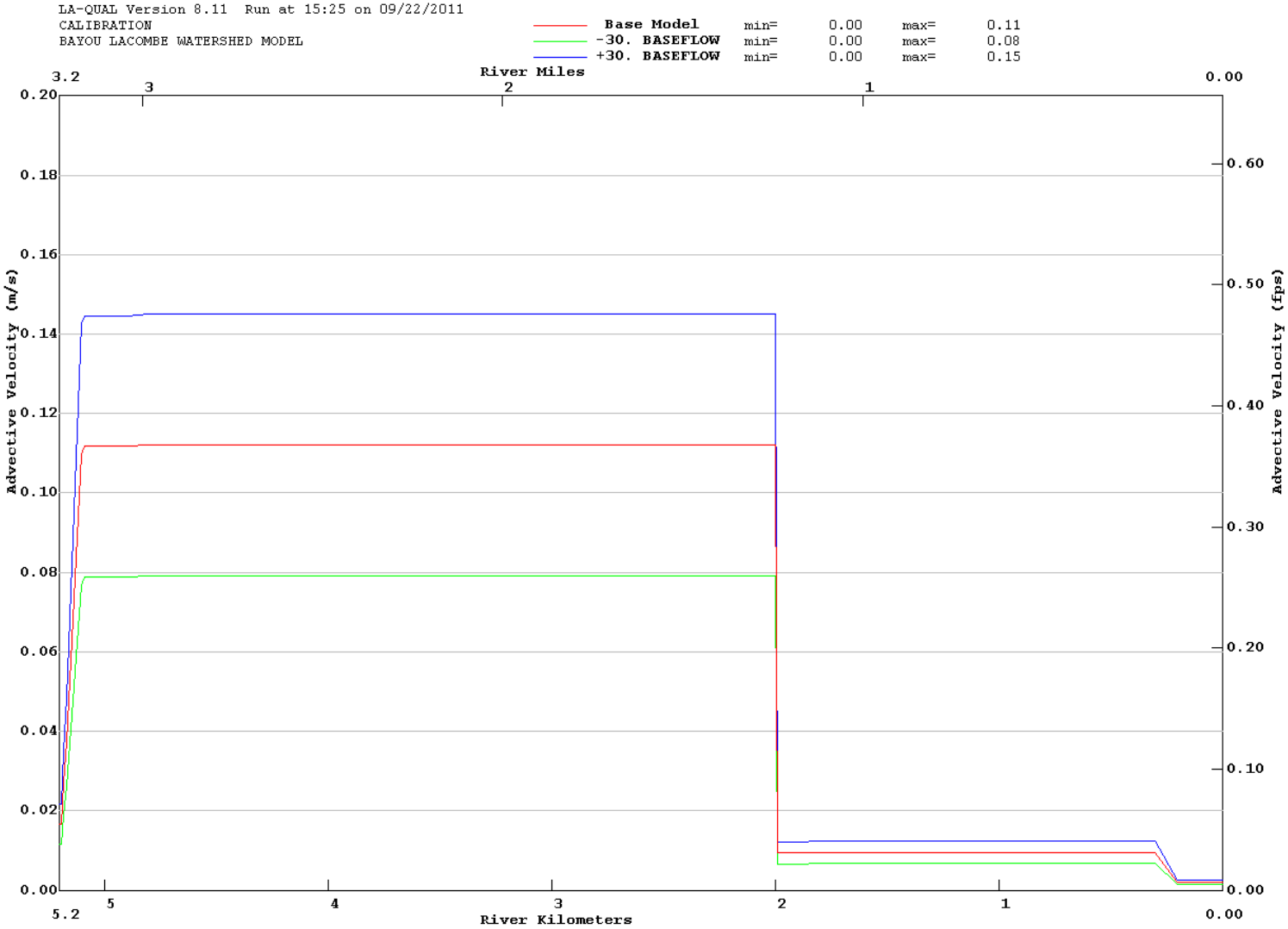

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.05 max= 3.40
-30. BASEFLOW min= 0.05 max= 3.54
+30. BASEFLOW min= 0.05 max= 3.24
River Miles
3.2
3
2
1
0.00
Nitrogenous Oxygen Demand (mg/L)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
5.2
5
4
3
2
1
0.00
River Kilometers

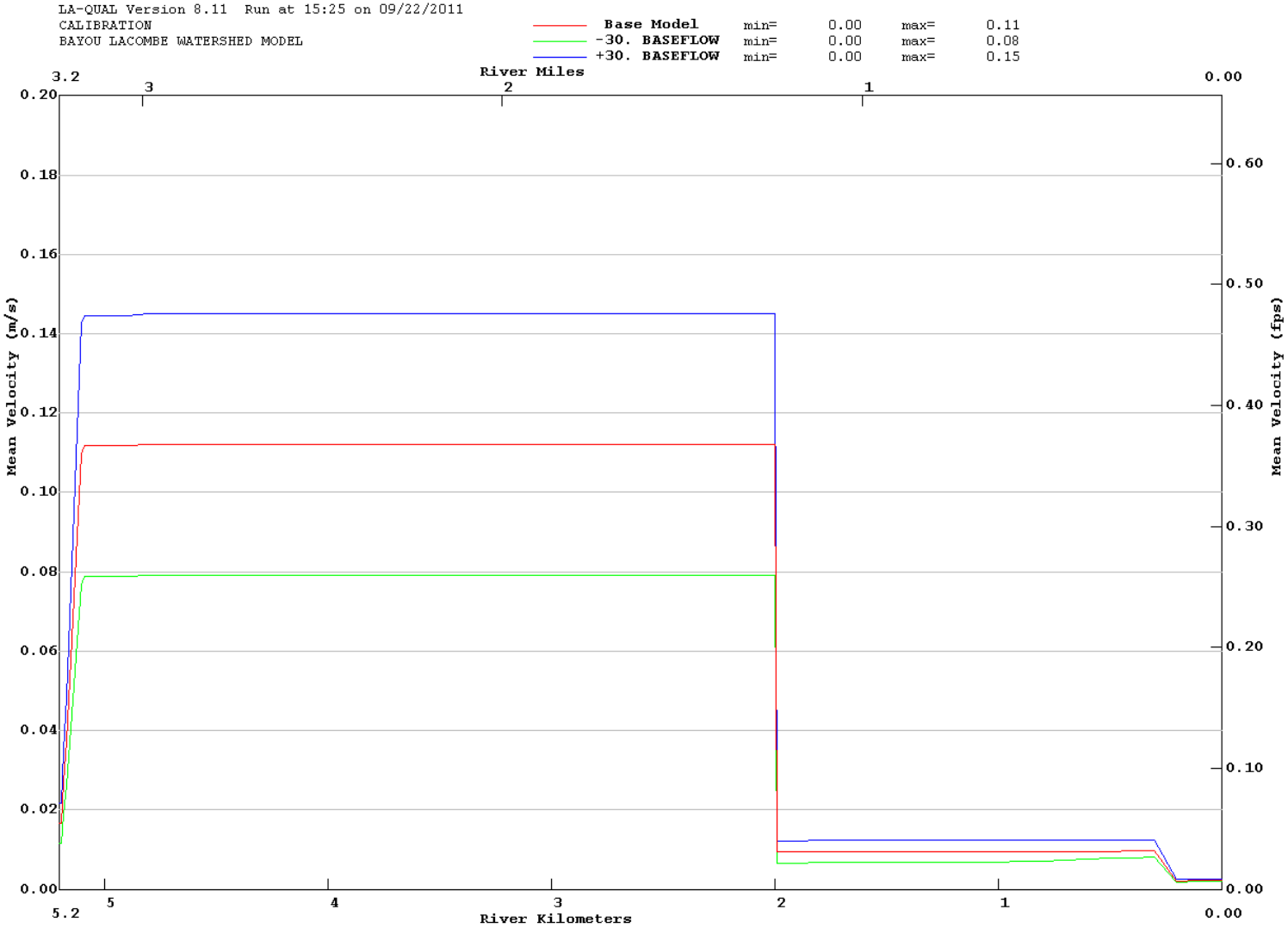

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.00 max= 0.07
-30. BASEFLOW min= 0.00 max= 0.23
+30. BASEFLOW min= 0.00 max= 0.03
River Miles
3.2
3
2
1
0.00
Salinity (ppt)
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
5.2
5
4
3
2
1
0.00
River Kilometers

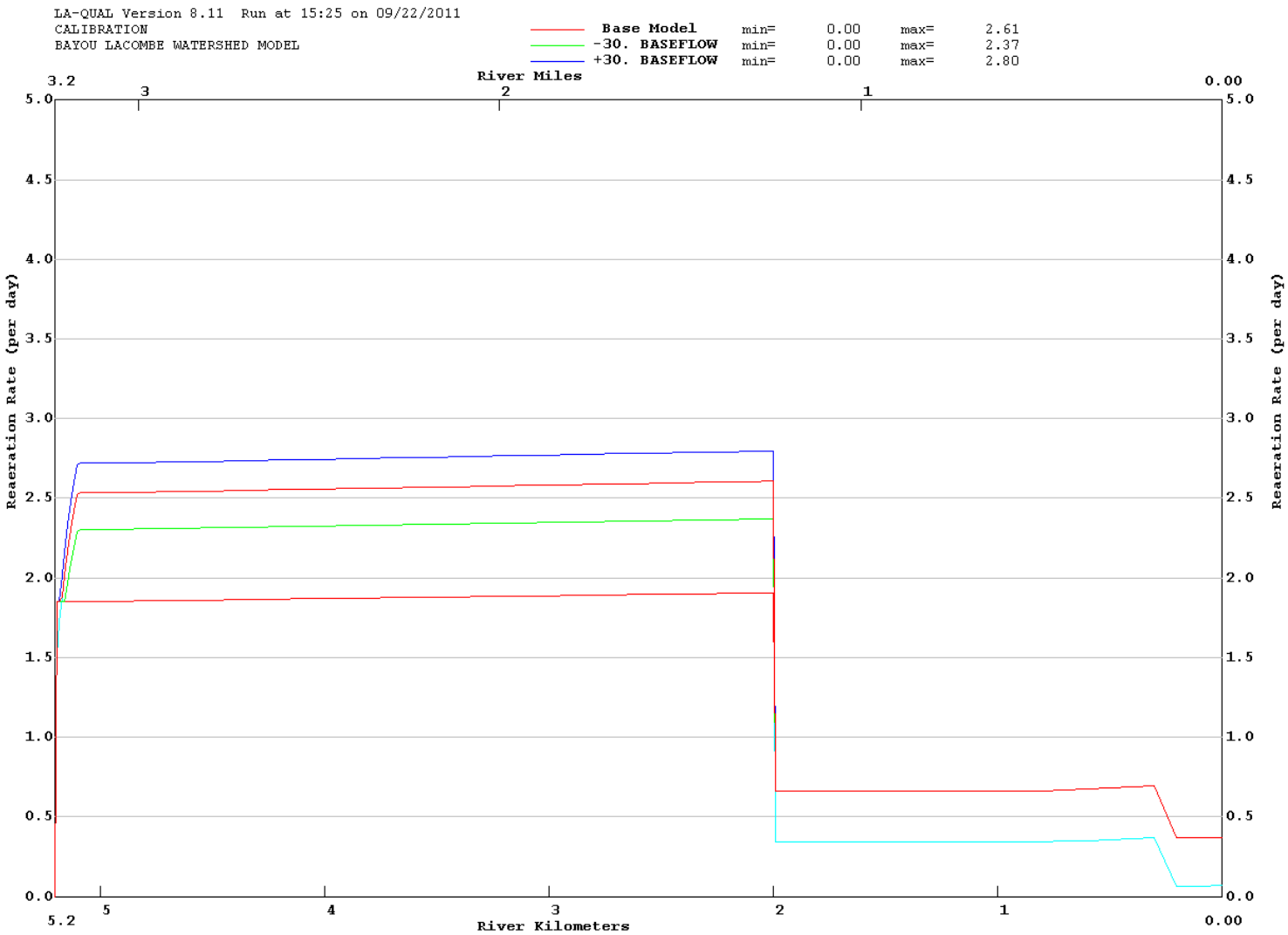

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 10.40 max= 37.91
-30. BASEFLOW min= 10.40 max= 129.92
+30. BASEFLOW min= 10.40 max= 15.63
River Miles
3.2
3
2
1
0.00
CHLORIDE (mg/L)
200
180
160
140
120
100
80
60
40
20
0
5.2
5
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 95.61 max= 176.58
-30. BASEFLOW min= 95.61 max= 455.52
+30. BASEFLOW min= 95.61 max= 111.26
River Miles
3.2
3
2
1
0.00
CONDUCTIVITY (uS/cm)
500
450
400
350
300
250
200
150
100
50
0
5.2
5
4
3
2
1
0.00
River Kilometers

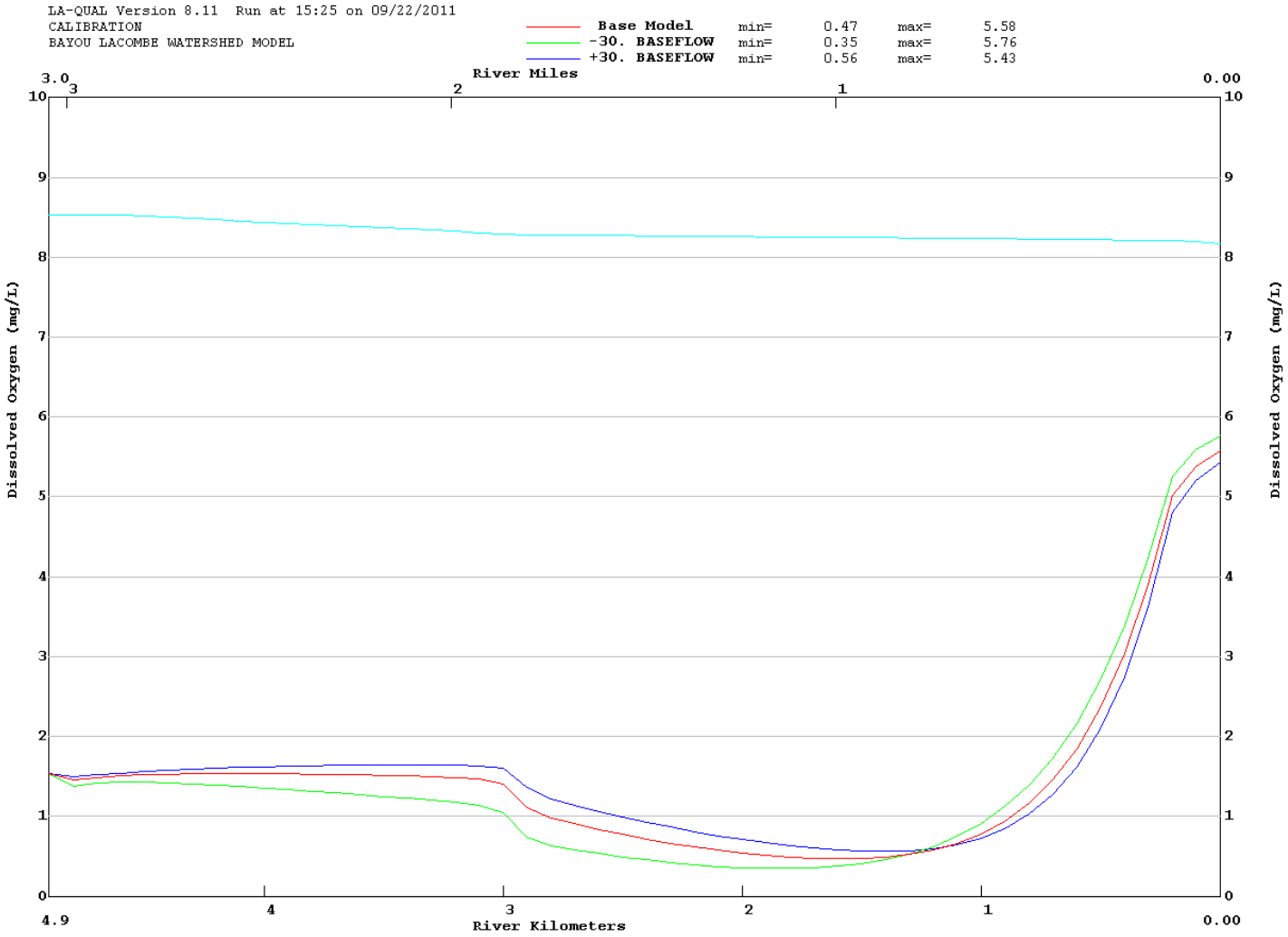

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.01 max= 0.16
-30. BASEFLOW min= 0.01 max= 0.12
+30. BASEFLOW min= 0.01 max= 0.21
River Miles
3.2
3
2
1
0.00
Flow (m³/s)
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Flow (cfs)
16
14
12
10
8
6
4
2
0
5.2
5
4
3
2
1
0.00
River Kilometers

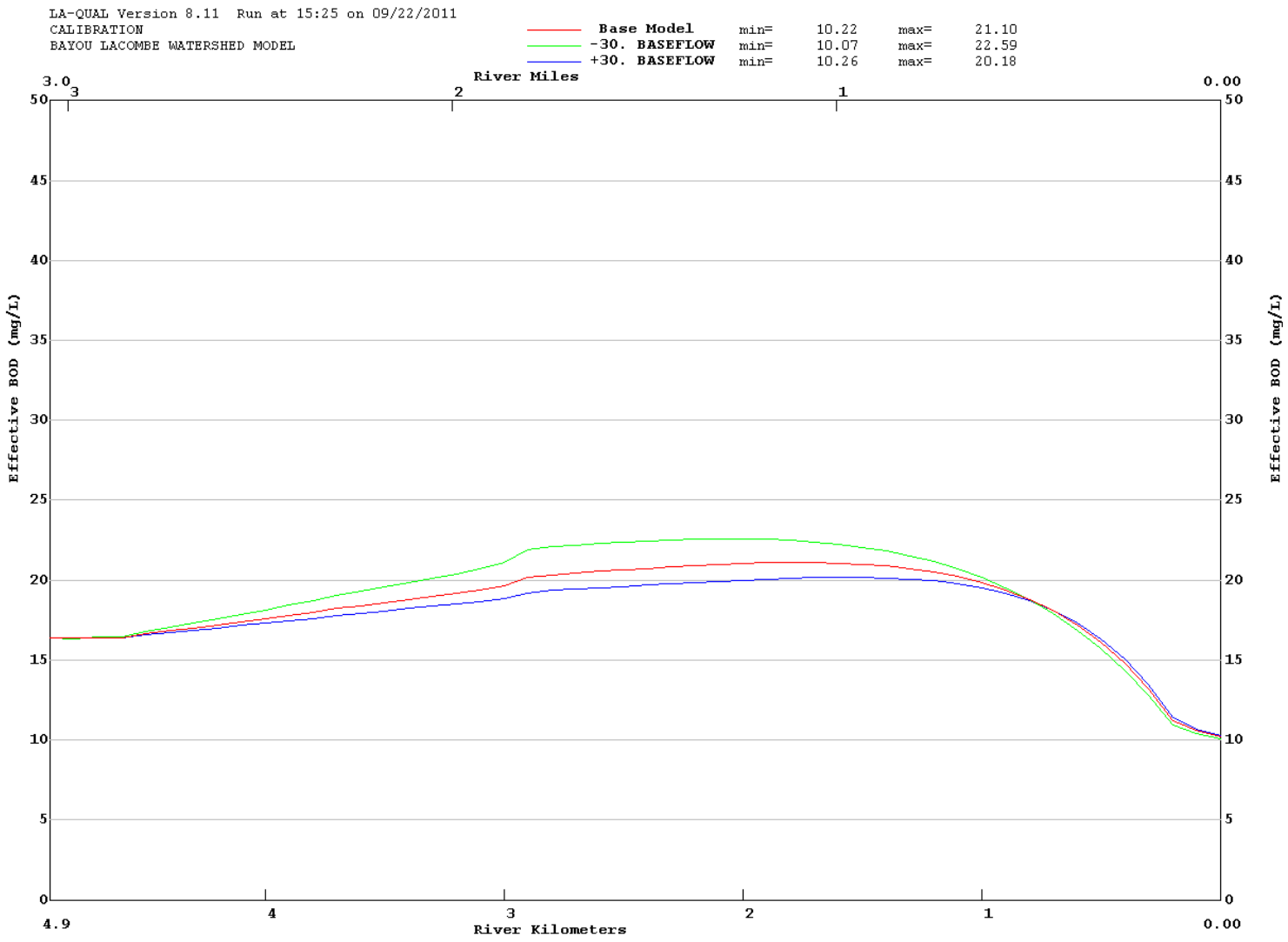

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.00 max= 0.11
-30. BASEFLOW min= 0.00 max= 0.08
+30. BASEFLOW min= 0.00 max= 0.15
River Miles
3.2
3
2
1
0.00
Advective Velocity (m/s)
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
Advective Velocity (fps)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
5.2
5
4
3
2
1
0.00
River Kilometers

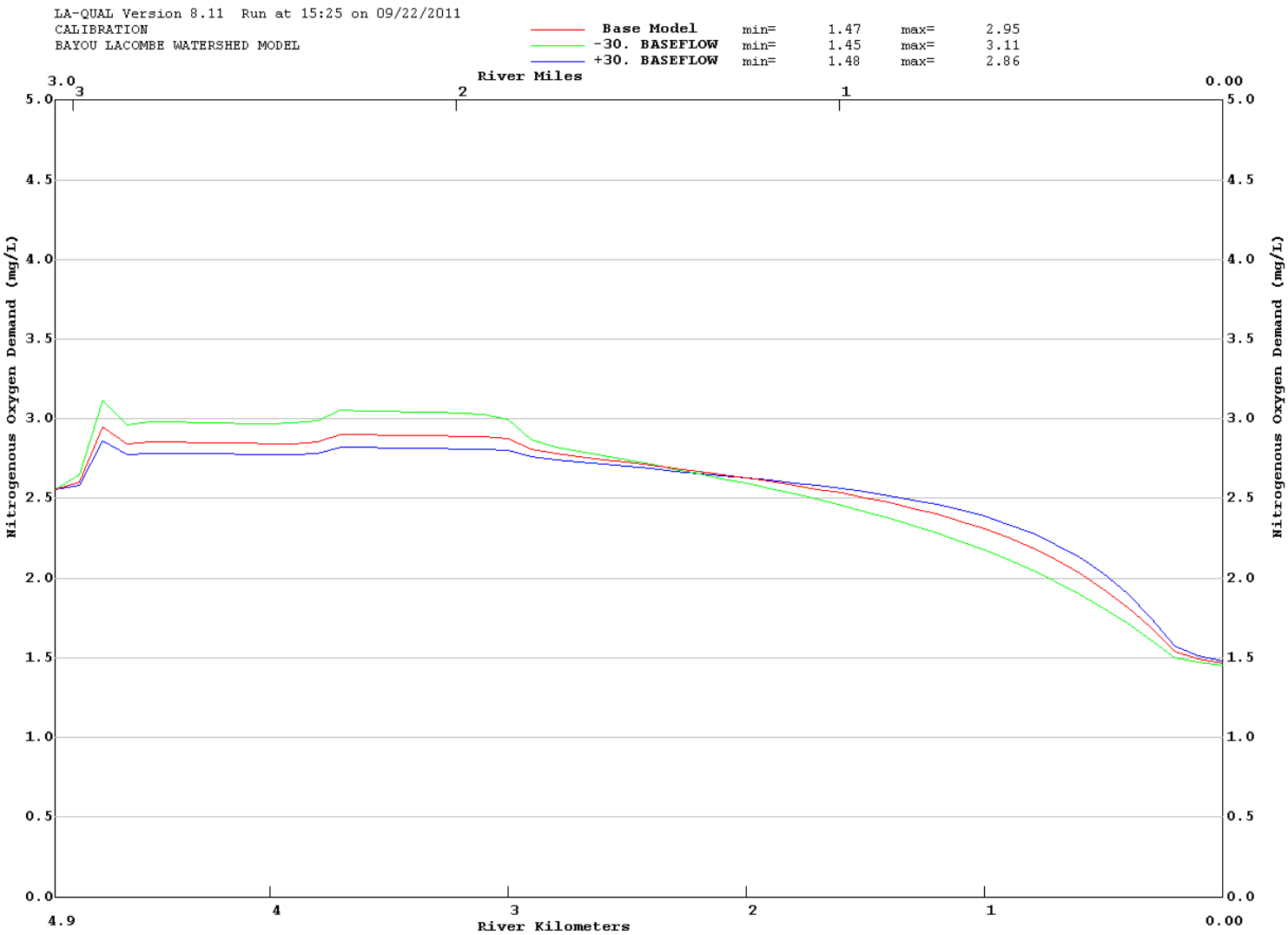

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.00 max= 0.11
-30. BASEFLOW min= 0.00 max= 0.08
+30. BASEFLOW min= 0.00 max= 0.15
River Miles
3.2
3
2
1
0.00
Mean Velocity (m/s)
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
Mean Velocity (fps)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
5.2
5
4
3
2
1
0.00
River Kilometers

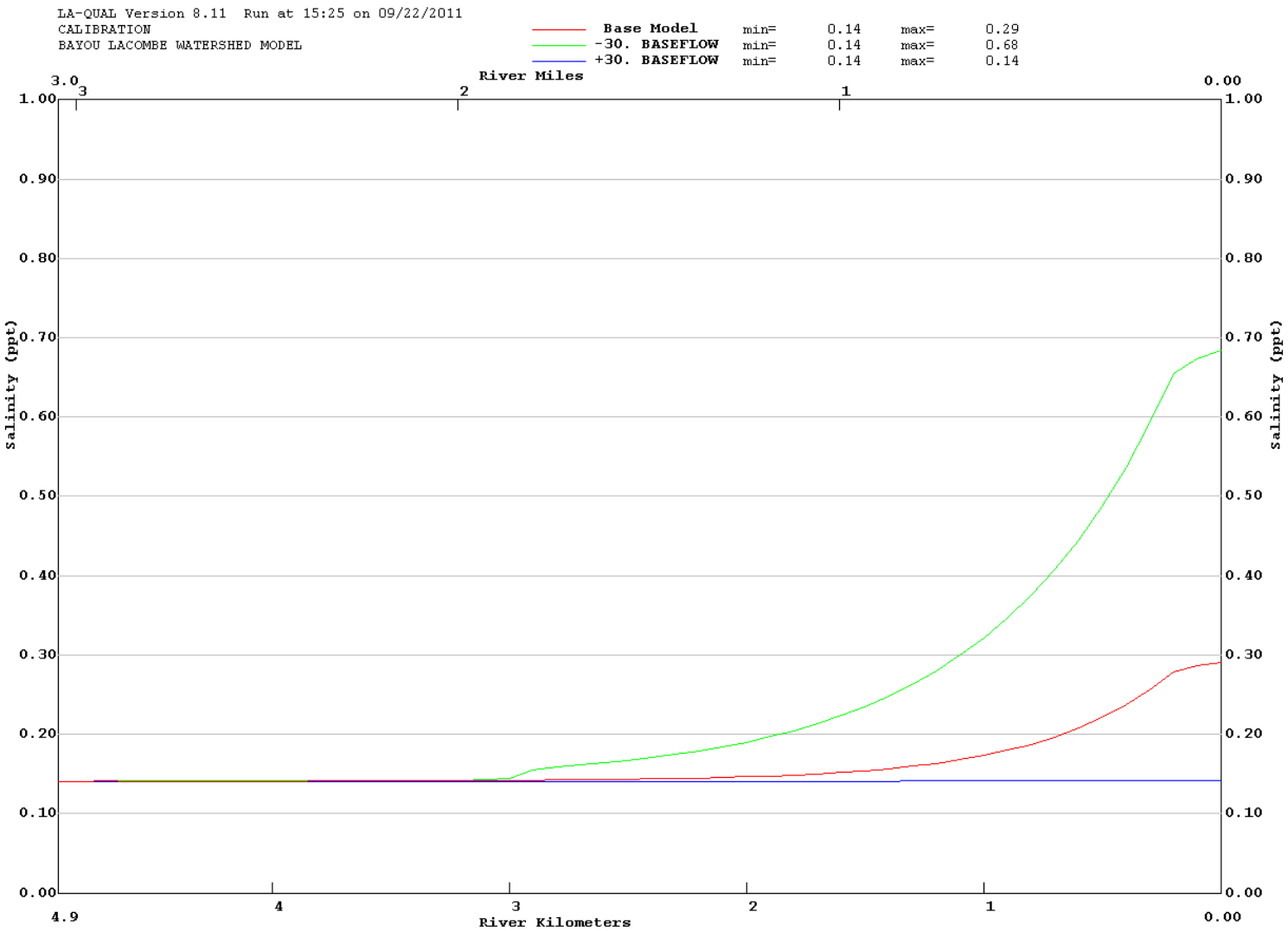

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.00 max= 2.61
-30. BASEFLOW min= 0.00 max= 2.37
+30. BASEFLOW min= 0.00 max= 2.80
River Miles
3.2
3
2
1
0.00
Reaeration Rate (per day)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
5.2
5
4
3
2
1
0.00
River Kilometers

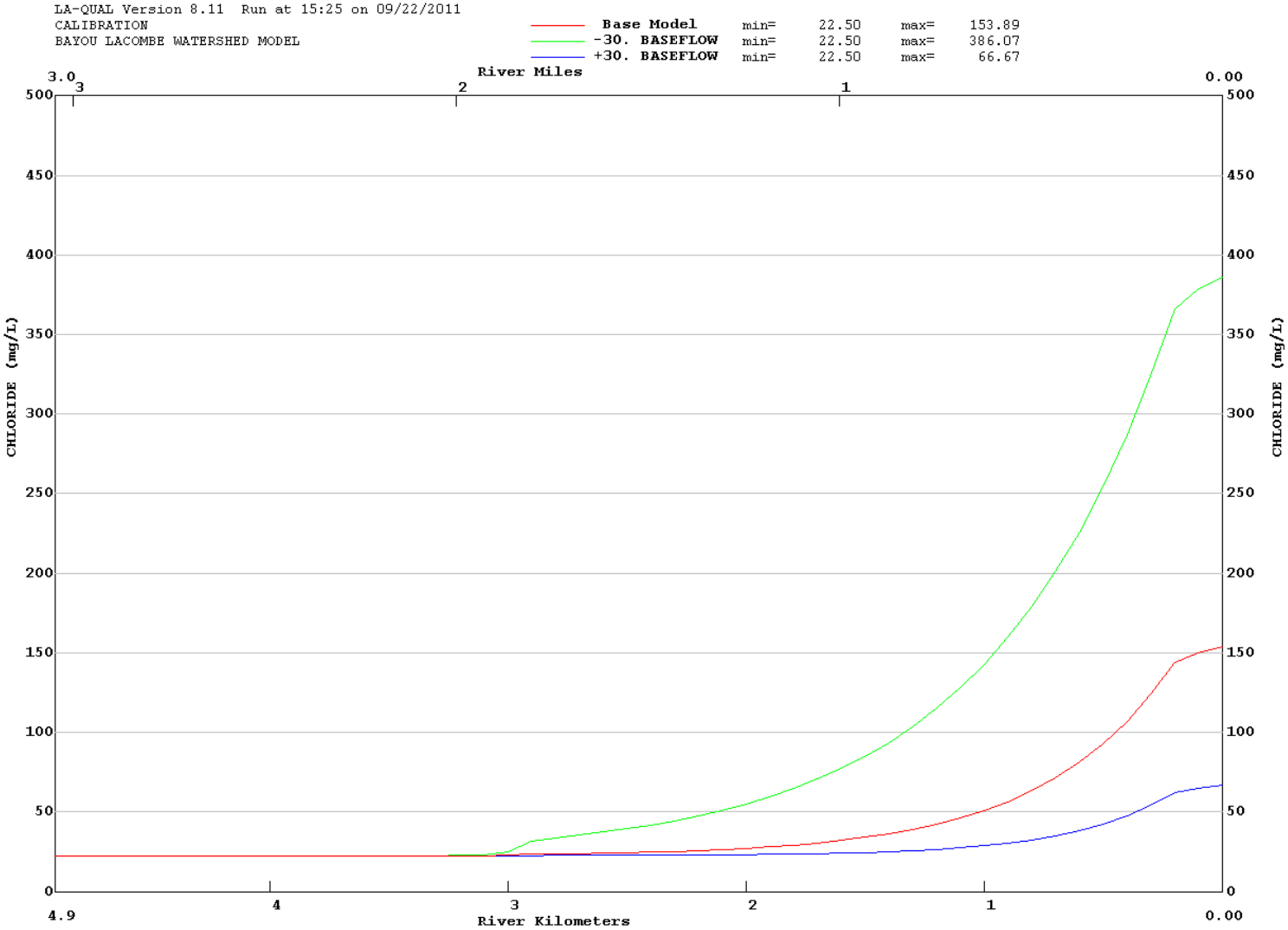
Cypress Bayou

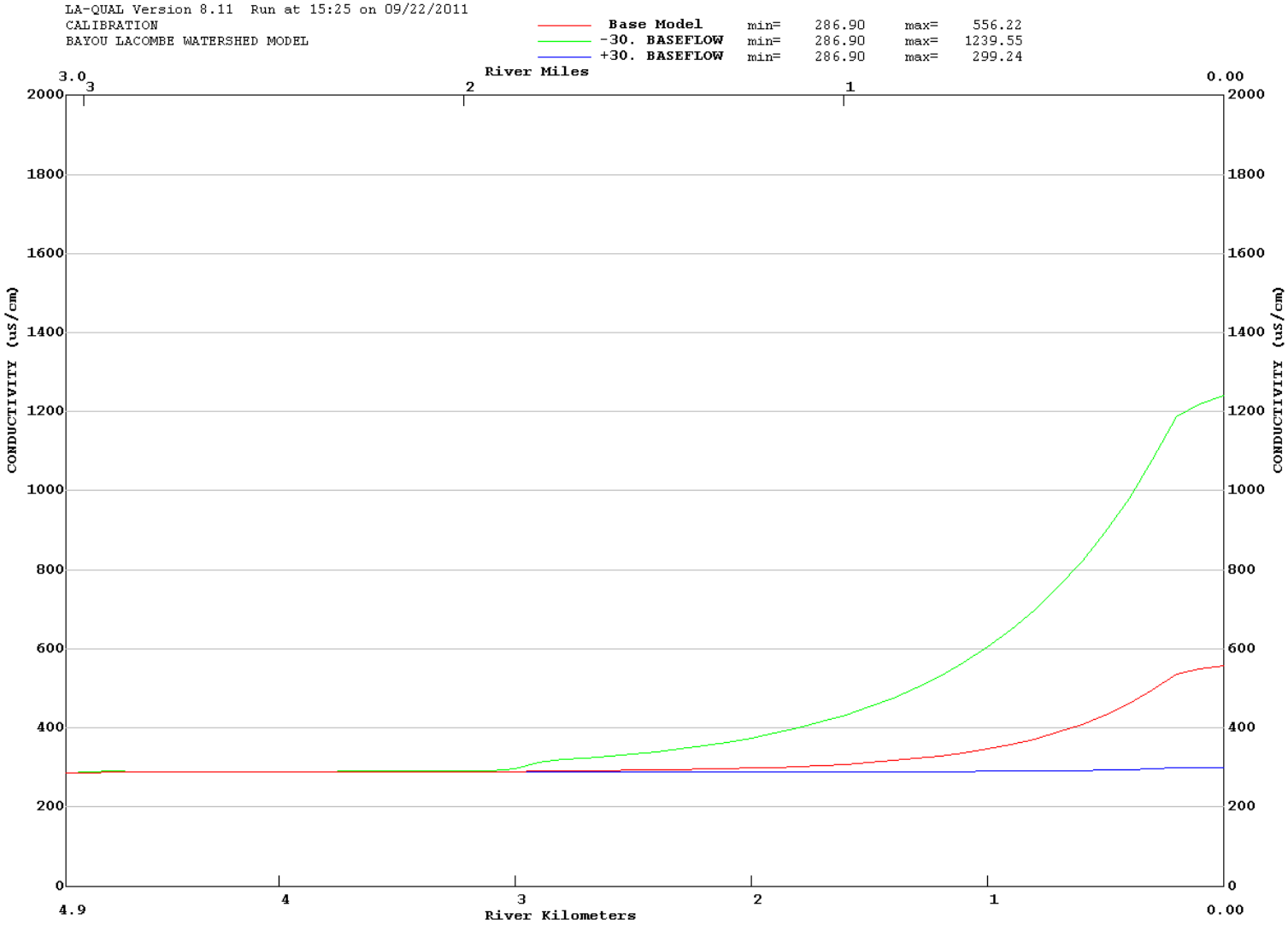


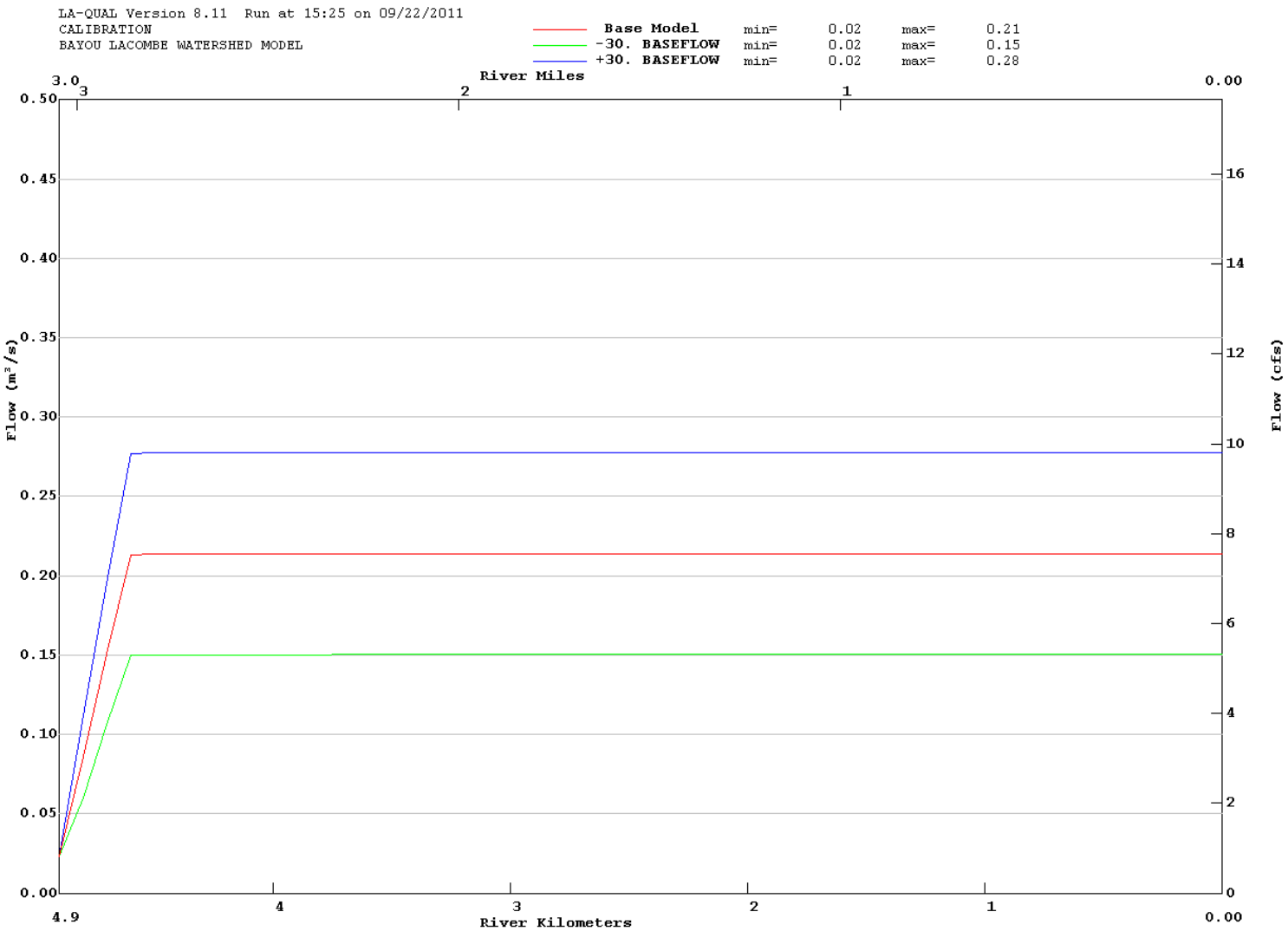

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 10.22 max= 21.10
-30. BASEFLOW min= 10.07 max= 22.59
+30. BASEFLOW min= 10.26 max= 20.18
River Miles
3.0
3
2
1
0.00
Effective BOD (mg/L)
50
45
40
35
30
25
20
15
10
5
0
4.9
4
3
2
1
0.00
River Kilometers

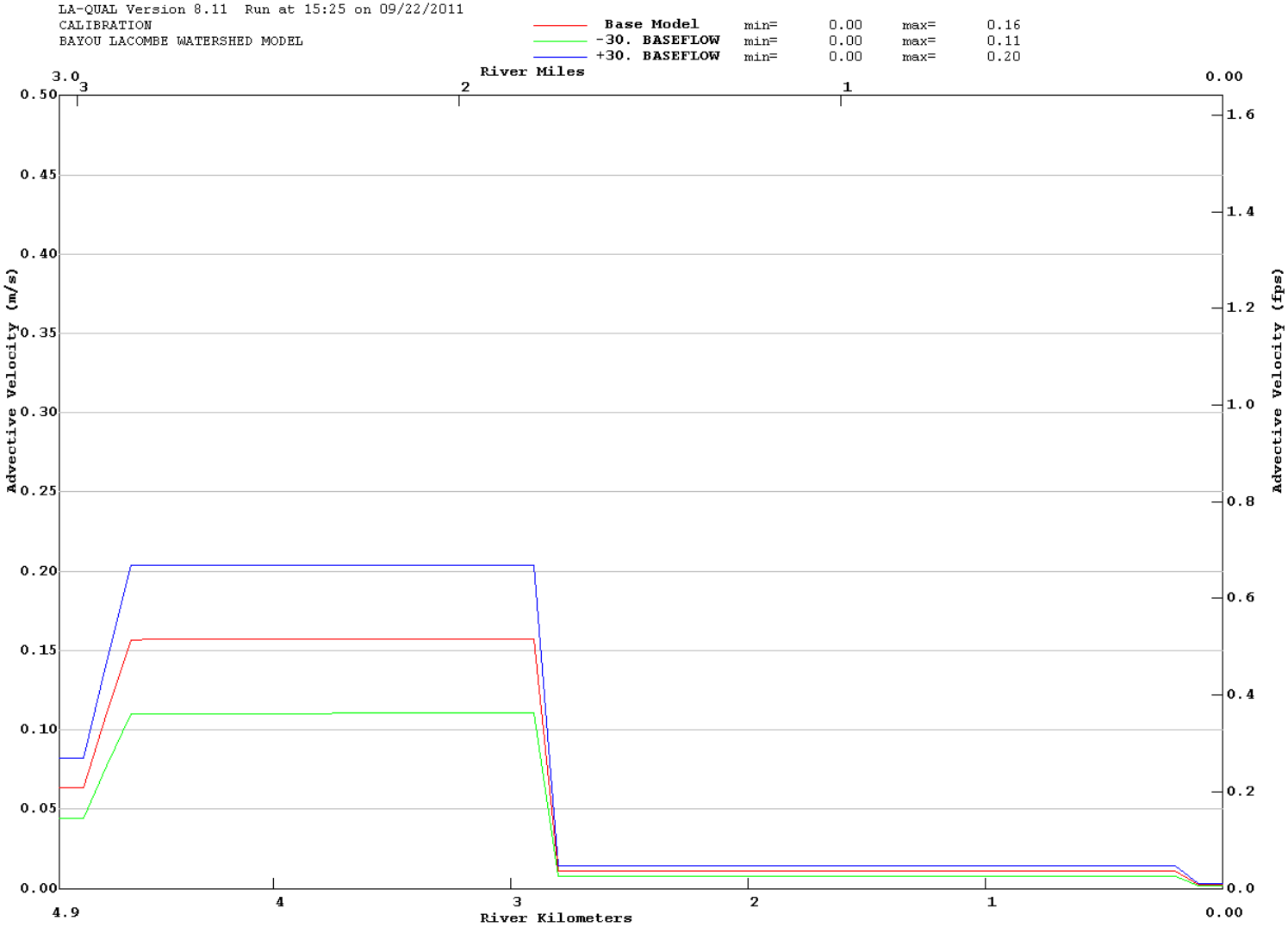

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 1.47 max= 2.95
-30. BASEFLOW min= 1.45 max= 3.11
+30. BASEFLOW min= 1.48 max= 2.86
River Miles
3.0
3
2
1
0.00
Nitrogenous Oxygen Demand (mg/L)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
4.9
4
3
2
1
0.00
River Kilometers

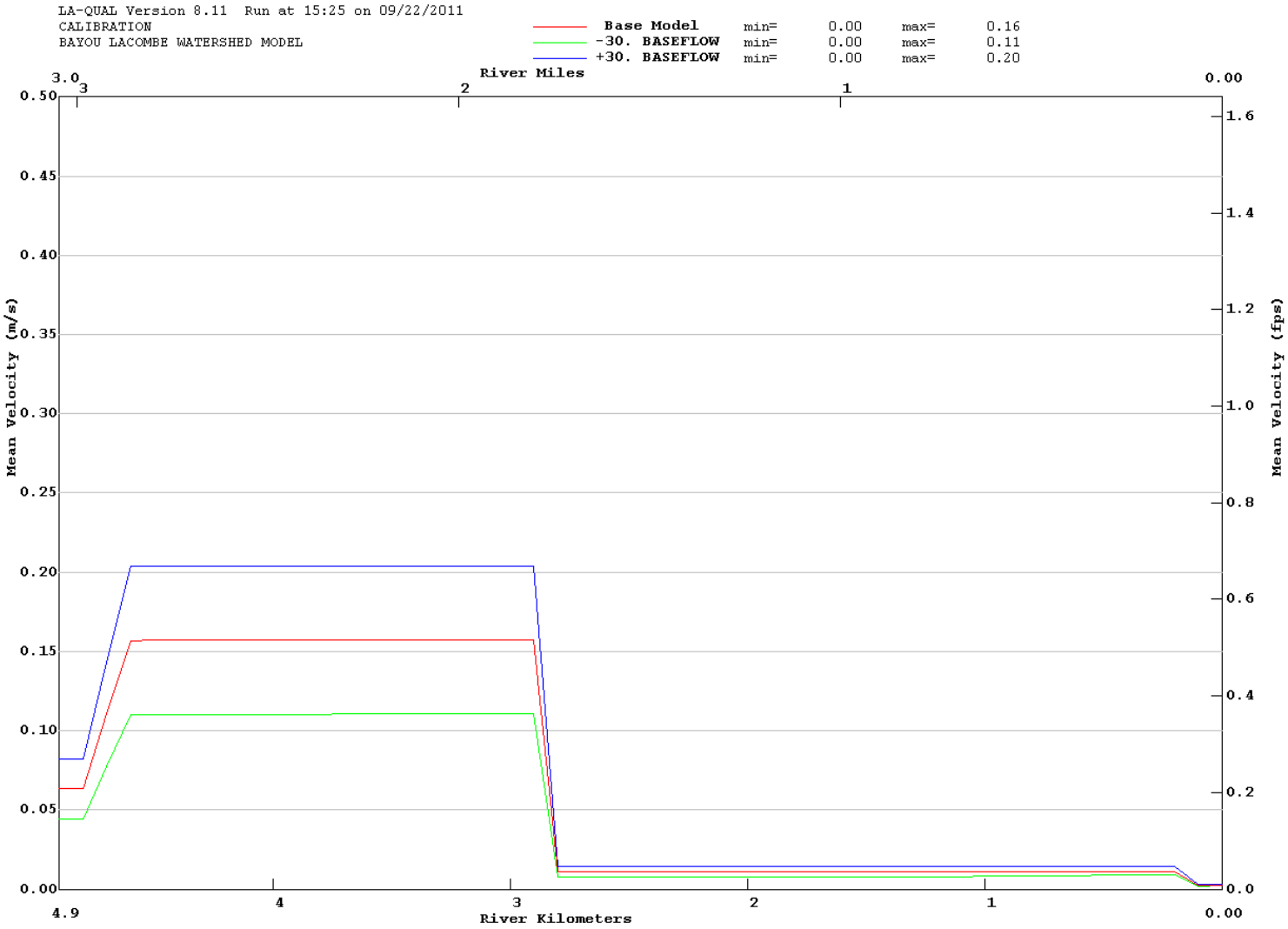

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.14 max= 0.29
-30. BASEFLOW min= 0.14 max= 0.68
+30. BASEFLOW min= 0.14 max= 0.14
River Miles
3.0
3
2
1
0.00
Salinity (ppt)
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
4.9
4
3
2
1
0.00
River Kilometers

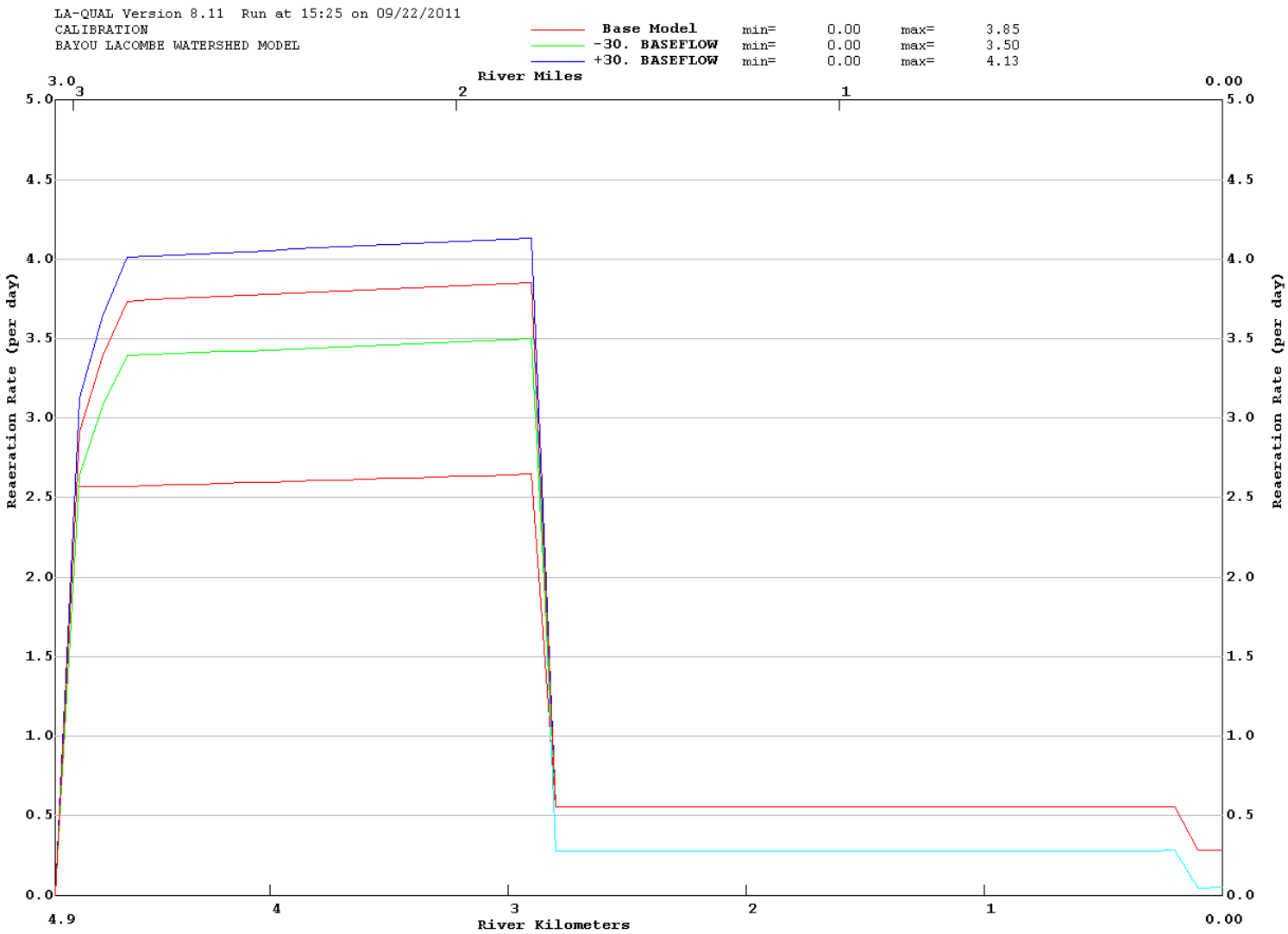

LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 22.50 max= 153.89
-30. BASEFLOW min= 22.50 max= 386.07
+30. BASEFLOW min= 22.50 max= 66.67
River Miles
3.0
3
2
1
0.00
CHLORIDE (mg/L)
500
450
400
350
300
250
200
150
100
50
0
4.9
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 286.90 max= 556.22
-30. BASEFLOW min= 286.90 max= 1239.55
+30. BASEFLOW min= 286.90 max= 299.24
River Miles
3.0
3
2
1
0.00
CONDUCTIVITY (uS/cm)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4.9
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.02 max= 0.21
-30. BASEFLOW min= 0.02 max= 0.15
+30. BASEFLOW min= 0.02 max= 0.28
River Miles
3.0
3
2
1
0.00
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Flow (m³/s)
16
14
12
10
8
6
4
2
0
Flow (cfs)
4.9
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.00 max= 0.16
-30. BASEFLOW min= 0.00 max= 0.11
+30. BASEFLOW min= 0.00 max= 0.20
River Miles
3.0
3
2
1
0.00
Advective Velocity (m/s)
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Advective Velocity (fps)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
4.9
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.00 max= 0.16
-30. BASEFLOW min= 0.00 max= 0.11
+30. BASEFLOW min= 0.00 max= 0.20
River Miles
3.0
3
2
1
0.00
Mean Velocity (m/s)
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Mean Velocity (fps)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
4.9
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 15:25 on 09/22/2011
CALIBRATION
BAYOU LACOMBE WATERSHED MODEL
Base Model min= 0.00 max= 3.85
-30. BASEFLOW min= 0.00 max= 3.50
+30. BASEFLOW min= 0.00 max= 4.13
River Miles
3.0
3
2
1
0.00
Reaeration Rate (per day)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
4.9
4
3
2
1
0.00
River Kilometers

Appendix I2 – Sensitivity Output Data Set

Bayou Lacombe 040901 and 040902 Sensitivity Analysis Input Data Set

```
TITLE01      BAYOU LACOMBE WATERSHED MODEL
TITLE02      CALIBRATION
CONTROL  YES METRIC UNITS
ENDATA01
MODOPT    NO TEMPERATURE
MODOPT   YES SALINITY
MODOPT   YES CONSERVATIVE MATERIAL  I = CHLORIDE                 IN  mg/L     chloride
MODOPT   YES CONSERVATIVE MATERIAL II = CONDUCTIVITY             IN  uS/cm    conduct
MODOPT   YES DISSOLVED OXYGEN
MODOPT   YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT    NO BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT   YES NBOD OXYGEN DEMAND
MODOPT    NO PHOSPHORUS
MODOPT    NO CHLOROPHYLL A
MODOPT    NO MACROPHYTES
MODOPT    NO COLIFORM
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  INHIBITION CONTROL VALUE          =     3.
PROGRAM  DISPERSION EQUATION               =     1
PROGRAM  OCEAN EXCHANGE RATIO              =     1.0
PROGRAM  TIDE HEIGHT                       =     0.152
PROGRAM  TIDAL PERIOD                      =     25.0
PROGRAM  PERIOD OF TIDAL RISE              =     12.5
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =      2.0
PROGRAM  SETTLING RATE UNITS               =      2.0
ENDATA03
!Temperature Correction Constants
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ******** ********
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------------------*----------
!          R#  ID   REACH NAME                          RKM       RKM    LENGTH
```

```
REACH ID    1  BL BL01 TO Hwy 36 Ditch BL              31.0       30.9     0.01
REACH ID    2  D1 Hwy 36 Ditch BL                       4.2        0.0     0.1
REACH ID    3  BL Hwy 36 Ditch BL to BL02              30.9       25.2     0.1
REACH ID    4  BL BL02 to BL03                         25.2       20.3     0.1
REACH ID    5  BL BL03 to SNG Ditch                    20.3       19.4     0.1
REACH ID    6  D2 SNG Ditch                             2.1        0.0     0.1
REACH ID    7  BL SNG Ditch to Hwy434/I-12 Dich BL     19.4       19.1     0.1
REACH ID    8  D3 Hwy 434/I-12 Ditch BL                 3.0        0.0     0.1
REACH ID    9  BL Hwy434/I-12DitchBL to BL04           19.1       18.9     0.1
REACH ID   10  BL BL04 to Keller Barn Ditch            18.9       17.3     0.1
REACH ID   11  D4 Keller Barn Ditch                     0.9        0.0     0.1
REACH ID   12  BL KellerBarnDitchToBeauVillageDich     17.3       14.6     0.1
REACH ID   13  D5 Beau Village Ditch                    3.0        0.0     0.1
REACH ID   14  BL Beau Village Ditch to BL05           14.6       13.2     0.1
REACH ID   15  BL BL05 to Hwy 190 Ditch BL             13.2       11.1     0.1
REACH ID   16  D6 Hwy 190 Ditch BL                      2.2        0.0     0.1
REACH ID   17  BL Hwy190DitchBLtoHwy434/190DitchBL     11.1       11.0     0.01
REACH ID   18  D7 Hwy 434/190 Ditch BL                  2.2        0.0     0.1
REACH ID   19  BL Hwy 434/190 Ditch BL to BL06         11.0       10.9     0.01
REACH ID   20  BL BL06 to confluence with BBB          10.9        8.8     0.1
REACH ID   21  BB BB03 to Hwy 434/I-12 ditch BBB        5.2        5.1     0.01
REACH ID   22  D8 Hwy 434/I-12 Ditch BBB                6.5        0.0     0.1
REACH ID   23  BB Hwy434/I-12DitchBBBtoFolgerDitch      5.1        4.9     0.01
REACH ID   24  D9 Folger Ditch                          0.4        0.0     0.1
REACH ID   25  BB Folger Ditch to BB02                  4.9        2.0     0.1
REACH ID   26  BB BB02 to Berry Todd Rd Ditch           2.0        1.9     0.01
REACH ID   27  DA Berry Todd Rd Ditch                   2.0        0.0     0.1
REACH ID   28  BB BerryToddRdDitchtoHwy190DitchBBB      1.9        0.8     0.1
REACH ID   29  DB Hwy 190 Ditch BBB                     1.3        0.0     0.1
REACH ID   30  BB Hwy 190 Ditch BBB to BB01             0.8        0.3     0.1
REACH ID   31  BB BB01toConfluenceWithBayouLacombe      0.3        0.0     0.1
REACH ID   32  BL Big Branch Bayou to BL07              8.8        8.7     0.01
REACH ID   33  BL BL07to confluence w/CypressBayou      8.7        6.3     0.1
REACH ID   34  CB CB03 to Hwy 190 ditch CB              4.9        4.6     0.1
REACH ID   35  DC Hwy 190 Ditch CB                      1.6        0.0     0.1
REACH ID   36  CB Hwy 190 Ditch CB to CB02              4.6        2.9     0.1
REACH ID   37  CB CB02 to CB01                          2.9        0.2     0.1
REACH ID   38  CB CB01to confluence w/BayouLacombe      0.2        0.0     0.1
REACH ID   39  BL Cypress Bayou to BL08                 6.3        6.1     0.1
REACH ID   40  BL BL08 to BL09                          6.1        0.3     0.1
REACH ID   41  BL BL09 to Lake Pontchartrain            0.3        0.0     0.1
ENDATA08
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!Advective Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------*******
!                a      b       c     d      e        f
!              WIDTH  WIDTH   WIDTH DEPTH  DEPTH   DEPTH
!          R#  COEFF   EXP    CONST COEFF   EXP    CONST SLOPE MANNING
HYDR-1      1    0.0     0.0   5.79    0.0    0.0  0.40        0   0.02
HYDR-1      2    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      3    0.0     0.0   5.79    0.0    0.0  0.40        0   0.02
HYDR-1      4    0.0     0.0   6.10    0.0    0.0  0.18        0   0.02
HYDR-1      5    0.0     0.0   7.16    0.0    0.0  0.17        0   0.02
HYDR-1      6    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      7    0.0     0.0   7.16    0.0    0.0  0.17        0   0.02
HYDR-1      8    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1      9    0.0     0.0   7.16    0.0    0.0  0.17        0   0.02
HYDR-1     10    0.0     0.0   9.30    0.0    0.0  0.42        0   0.02
HYDR-1     11    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     12    0.0     0.0   9.30    0.0    0.0  0.42        0   0.02
HYDR-1     13    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     14    0.0     0.0   9.30    0.0    0.0  0.42        0   0.02
HYDR-1     15    0.0     0.0  25.30    0.0    0.0  3.60        0   0.02
HYDR-1     16    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     17    0.0     0.0  25.30    0.0    0.0  3.60        0   0.02
HYDR-1     18    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     19    0.0     0.0  25.30    0.0    0.0  3.60        0   0.02
HYDR-1     20    0.0     0.0  44.20    0.0    0.0  3.15        0   0.02
HYDR-1     21    0.0     0.0   3.66    0.0    0.0  0.39        0   0.02
HYDR-1     22    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     23    0.0     0.0   3.66    0.0    0.0  0.39        0   0.02
HYDR-1     24    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     25    0.0     0.0   3.66    0.0    0.0  0.39        0   0.02
HYDR-1     26    0.0     0.0  15.24    0.0    0.0  1.12        0   0.02
HYDR-1     27    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     28    0.0     0.0  15.24    0.0    0.0  1.12        0   0.02
HYDR-1     29    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
HYDR-1     30    0.0     0.0  15.24    0.0    0.0  1.12        0   0.02
HYDR-1     31    0.0     0.0  39.62    0.0    0.0  2.13        0   0.02
HYDR-1     32    0.0     0.0  82.30    0.0    0.0  2.56        0   0.02
HYDR-1     33    0.0     0.0  82.30    0.0    0.0  2.56        0   0.02
HYDR-1     34    0.0     0.0   4.69    0.0    0.0  0.29        0   0.02
HYDR-1     35    0.0     0.0   1.00    0.0    0.0  0.05        0   0.02
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HYDR-1     36     0.0     0.0   4.69    0.0    0.0  0.29        0   0.02
HYDR-1     37     0.0     0.0  14.02    0.0    0.0  1.39        0   0.02
HYDR-1     38     0.0     0.0  35.36    0.0    0.0  2.73        0   0.02
HYDR-1     39     0.0     0.0  74.68    0.0    0.0  3.03        0   0.02
HYDR-1     40     0.0     0.0  74.68    0.0    0.0  3.03        0   0.02
HYDR-1     41     0.0     0.0  99.36    0.0    0.0  1.80        0   0.02
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!          R#  RANGE    a          b         c         d
!         ***  ----------*********-----------
HYDR-2      1  0.00 0.5        0.000     0.0       0.0
HYDR-2      2  0.00   0        0.000     0.0       0.0
HYDR-2      3  0.00 0.5        0.000     0.0       0.0
HYDR-2      4  0.00 0.5        0.000     0.0       0.0
HYDR-2      5  0.00 0.5        0.000     0.0       0.0
HYDR-2      6  0.00    0       0.000     0.0       0.0
HYDR-2      7  0.00 0.5        0.000     0.0       0.0
HYDR-2      8  0.00   0        0.000     0.0       0.0
HYDR-2      9  0.00 0.5        0.000     0.0       0.0
HYDR-2     10  0.25 0.5        0.000     0.0       0.0
HYDR-2     11  0.00    0       0.000     0.0       0.0
HYDR-2     12  0.25 0.5        0.000     0.0       0.0
HYDR-2     13  0.00   0        0.000     0.0       0.0
HYDR-2     14  0.50 0.5        0.000     0.0       0.0
HYDR-2     15  0.75 0.5        0.000     0.0       0.0
HYDR-2     16  0.00   0        0.000     0.0       0.0
HYDR-2     17  0.75 0.5        0.000     0.0       0.0
HYDR-2     18  0.00    0       0.000     0.0       0.0
HYDR-2     19  0.75 0.5        0.000     0.0       0.0
HYDR-2     20  1.00 2          0.000     0.0       0.0
HYDR-2     21  0.25 0.5        0.000     0.0       0.0
HYDR-2     22  0.00    0       0.000     0.0       0.0
HYDR-2     23  0.50 1.0        0.000     0.0       0.0
HYDR-2     24  0.00    0       0.000     0.0       0.0
HYDR-2     25  0.75 2.0        0.000     0.0       0.0
HYDR-2     26  1.00 2.5        0.000     0.0       0.0
HYDR-2     27  0.00    0       0.000     0.0       0.0
HYDR-2     28  1.00 3.5        0.000     0.0       0.0
HYDR-2     29  0.00    0       0.000     0.0       0.0
HYDR-2     30  1.00 5.5        0.000     0.0       0.0
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HYDR-2     31  1.00 7.5        0.000     0.0       0.0
HYDR-2     32  1.00 3          0.000     0.0       0.0
HYDR-2     33  1.00 4          0.000     0.0       0.0
HYDR-2     34  0.50 1          0.000     0.0       0.0
HYDR-2     35  0.00    0       0.000     0.0       0.0
HYDR-2     36  0.75 3.5        0.000     0.0       0.0
HYDR-2     37  1.00 5.5        0.000     0.0       0.0
HYDR-2     38  1.00 7.5        0.000     0.0       0.0
HYDR-2     39  1.00 5          0.000     0.0       0.0
HYDR-2     40  1.00 6          0.000     0.0       0.0
HYDR-2     41  1.00 7.5        0.000     0.0       0.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO     NH3 N  NIT NIT  PHOS   CHL A   MACROPHYTES
INITIAL     1     20.85    0.01   5.23    0.00    0.000   0.00    0.0     0.0
INITIAL     2     20.85    0.01   5.23    0.000   0.000   0.00    0.0     0.0
INITIAL     3     20.85    0.01   5.23    0.000   0.000   0.00    0.0     0.0
INITIAL     4     21.28    0.00   7.76    0.000   0.000   0.00    0.0     0.0
INITIAL     5     22.03    0.00   8.27    0.000   0.000   0.00   0000     0.0
INITIAL     6     22.03    0.00   8.27    0.000   0.000   0.000  0000     0.0
INITIAL     7     22.03    0.00   8.27    0.000   0.000   0.000   000     0.0
INITIAL     8     22.03    0.00   8.27    0.000   0.000   0.000  0000     0.0
INITIAL     9     22.03    0000   8.27    0.000   0.000   0.000  0000     0.0
INITIAL    10     22.64    0.02   7.86    0.000   0.000   0.000  0000     0.0
INITIAL    11     22.64    0.02   7.86    0.000   0.000   0.000  0000     0.0
INITIAL    12     22.64    0.02   7.86    0.000   0.000   0.000  0000     0.0
INITIAL    13     22.64    0.02   7.86    0.00    0.000   0.00    0.0     0.0
INITIAL    14     22.64    0.02   7.86    0.000   0.000   0.00    0.0     0.0
INITIAL    15     23.12    0.36   3.92    0.000   0.000   0.00   10.6     0.0
INITIAL    16     23.12    0.36   3.92    0.000   0.000   0.00    0.0     0.0
INITIAL    17     23.12    0.36   3.92    0.000   0.000   0.00   10.6     0.0
INITIAL    18     23.12    0.36   3.92    0.000   0.000   0.000  0000     0.0
INITIAL    19     23.12    0.36   3.92    0.000   0.000   0.000  10.6     0.0
INITIAL    20     25.47    4.78   2.42    0.000   0.000   0.000  11.3     0.0
INITIAL    21     21.66    0000   2.72    0.000   0.000   0.000  2.60     0.0
INITIAL    22     21.66    0.00   2.72    0.000   0.000   0.000  0000     0.0
INITIAL    23     21.66    0000   2.72    0.000   0.000   0.000  2.60     0.0
INITIAL    24     21.66    0.00   2.72    0.000   0.000   0.000  0000     0.0
INITIAL    25     21.66    0.00   2.72    0.000   0.000   0.000  2.60     0.0
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INITIAL    26     23.10    0.35   1.58    0.000   0.000   0.000  14.4     0.0
INITIAL    27     23.10    0.35   1.58    0.000   0.000   0.000  0000     0.0
INITIAL    28     23.10    0.35   1.58    0.000   0.000   0.000  14.4     0.0
INITIAL    29     23.10    0.35   1.58    0.000   0.000   0.000  0000     0.0
INITIAL    30     23.10    0.35   1.58    0.00    0.000   0.00   14.4     0.0
INITIAL    31     25.83    4.19   1.73    0.000   0.000   0.00   26.2     0.0
INITIAL    32     25.85    4.08   4.03    0.000   0.000   0.00   20.2     0.0
INITIAL    33     25.85    4.08   4.03    0.000   0.000   0.00   20.2     0.0
INITIAL    34     23.25    0.14   1.53    0.000   0.000   0.00   24.6     0.0
INITIAL    35     23.25    0.14   1.53    0.000   0.000   0.000  0000     0.0
INITIAL    36     23.25    0.14   1.53    0.000   0.000   0.000  24.6     0.0
INITIAL    37     24.84    3.82   0.99    0.000   0.000   0.000  22.6     0.0
INITIAL    38     25.27    5.34   5.35    0.000   0.000   0.000  20.6     0.0
INITIAL    39     25.49    5.26   5.60    0.000   0.000   0.000  17.2     0.0
INITIAL    40     25.49    5.26   5.60    0.000   0.000   0.000  17.2     0.0
INITIAL    41     24.97    7.05   6.19    0.000   0.000   0.000  11.7     0.0
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9----
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234
!         ***  -----********** ******-------*******-------*******-------*******-------*******
!               REA                            BOD 1  BOD 1   BOD 1       BOD 2    BOD 2  BOD 2
!          R#   EQ   "a"                  SOD  DECAY  SETT    CONV        DECAY    SETT   CONV
COEF-1      1   11.0  0.00 0.0   0.0     0.00  .034  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      2   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      3   11.0  0.00 0.0   0.0     0.25  .034  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      4   11.0  0.00 0.0   0.0     0.25  .031  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      5   11.0  0.00 0.0   0.0     1.75  .038  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      6   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      7   11.0  0.00 0.0   0.0     1.75  .038  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      8   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      9   11.0  0.00 0.0   0.0     1.75  .038  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     10   11.0  0.00 0.0   0.0     4.50  .029  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     11   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     12   11.0  0.00 0.0   0.0     4.50  .029  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     13   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     14   11.0  0.00 0.0   0.0     4.50  .029  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     15    3.0  0.00 0.0   0.0     3.00  .045  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     16   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     17    3.0  0.00 0.0   0.0     3.00  .045  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     18   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1     19    3.0  0.00 0.0   0.0     3.00  .045  0.05    0.0     0.00 .000    0.00    0.0
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COEF-1      20    3.0  0.00 0.0   0.0     3.50  .041  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      21   11.0  0.00 0.0   0.0     2.00  .070  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      22   15.0  0.00 0.0   0.0     0.50  .08   0.05    0.0     0.00 .000    0.00    0.0
COEF-1      23   11.0  0.00 0.0   0.0     2.00  .070  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      24   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      25   11.0  0.00 0.0   0.0     6.00  .070  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      26    3.0  0.00 0.0   0.0     7.00  .053  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      27   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      28    3.0  0.00 0.0   0.0     7.00  .053  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      29   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      30    3.0  0.00 0.0   0.0     7.00  .053  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      31    3.0  0.00 0.0   0.0     7.00  .049  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      32    3.0  0.00 0.0   0.0     3.50  .048  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      33    3.0  0.00 0.0   0.0     1.00  .048  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      34   11.0  0.00 0.0   0.0     6.00  .069  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      35   15.0  0.00 0.0   0.0     0.50  .080  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      36   11.0  0.00 0.0   0.0     6.00  .069  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      37    3.0  0.00 0.0   0.0     6.00  .052  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      38    3.0  0.00 0.0   0.0     0.00  .054  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      39    3.0  0.00 0.0   0.0     1.00  .051  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      40    3.0  0.00 0.0   0.0     1.50  .051  0.05    0.0     0.00 .000    0.00    0.0
COEF-1      41    3.0  0.00 0.0   0.0     0.00  .063  0.05    0.0     0.00 .000    0.00    0.0
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
COEF-2      1  0.005    0.05
COEF-2      2  0.030    0.05
COEF-2      3  0.005    0.05
COEF-2      4  0.595    0.05
COEF-2      5  0.041    0.05
COEF-2      6  0.030    0.05
COEF-2      7  0.041    0.05
COEF-2      8  0.030    0.05
COEF-2      9  0.041    0.05
COEF-2     10  0.070    0.05
COEF-2     11  0.030    0.05
COEF-2     12  0.070    0.05
COEF-2     13  0.030    0.05
```

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COEF-2      14  0.070    0.05
COEF-2      15  0.052    0.05
COEF-2      16  0.030    0.05
COEF-2      17  0.052    0.05
COEF-2      18  0.030    0.05
COEF-2      19  0.052    0.05
COEF-2      20  0.089    0.05
COEF-2      21  0.595    0.05
COEF-2      22  0.030    0.05
COEF-2      23  0.595    0.05
COEF-2      24  0.030    0.05
COEF-2      25  0.595    0.05
COEF-2      26  0.106    0.05
COEF-2      27  0.030    0.05
COEF-2      28  0.106    0.05
COEF-2      29  0.030    0.05
COEF-2      30  0.106    0.05
COEF-2      31  0.042    0.05
COEF-2      32  0.129    0.05
COEF-2      33  0.129    0.05
COEF-2      34  0.136    0.05
COEF-2      35  0.030    0.05
COEF-2      36  0.136    0.05
COEF-2      37  0.054    0.05
COEF-2      38  0.080    0.05
COEF-2      39  0.064    0.05
COEF-2      40  0.064    0.05
COEF-2      41  0.101    0.05
ENDATA13
ENDATA14
ENDATA15
!Incremental Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------*********
!          R#   OUTFLOW   INFLOW  TEMP     SALINITY CHLORIDE  COND
!
INCR-1      1    0.0     0.179959 20.85   0.01        5.60     51.6
INCR-1      2    0.0     0.000000 00000   0.00        0000     00.00
INCR-1      3    0.0     0.000000 00000   0.00        0000     00000
INCR-1      4    0.0     0.041881 21.28   0.00         5.5     56.00
INCR-1      5    0.0     0.043261 22.03   0.00         5.7     58.04
```

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INCR-1       6    0.0     0.0000   00.000  0.00          000     00000
INCR-1       7    0.0     0.000000 00000   0.00         0000     00000
INCR-1       8    0.0     0.0000   00.000  0.00          000     00000
INCR-1       9    0.0     0.0000   00.000  0.00          000     00000
INCR-1      10    0.0     0.000000 00000   0.00         0000     00000
INCR-1      11    0.0     0.0000   00.000  0.00          000     00000
INCR-1      12    0.0     0.0000   00.000  0.00          000     00000
INCR-1      13    0.0     0.000000 00000   0.00         0000     0000
INCR-1      14    0.0     0.000000 00000   0.00         0000     00000
INCR-1      15    0.0     0.000000 00000   0.00         0000     00000
INCR-1      16    0.0     0.0000   00.000  0.00          000     00000
INCR-1      17    0.0     0.0000   00.000  0.00          000     00000
INCR-1      18    0.0     0.0000   00.000  0.00          000     00000
INCR-1      19    0.0     0.000000 00000   0.00         0000     00000
INCR-1      20    0.0     0.0000   00.000  0.00          000     00000
INCR-1      21    0.0     0.147505 21.66   0.00          10.4    95.61
INCR-1      22    0.0     0.000000 00000   0.00         0000     00000
INCR-1      23    0.0     0.0000   00.000  0.00          000     00000
INCR-1      24    0.0     0.0000   00.000  0.00          000     00000
INCR-1      25    0.0     0.0000   00.000  0.00          000     00000
INCR-1      26    0.0     0.0000   00.000  0.00          000     00000
INCR-1      27    0.0     0.000000 00000   0.00         0000     00000
INCR-1      28    0.0     0.0000   00.000  0.00          000     00000
INCR-1      29    0.0     0.0000   00.000  0.00          000     00000
INCR-1      30    0.0     0.000000 00000   0.00         0000     0000
INCR-1      31    0.0     0.000000 00000   0.00         0000     00000
INCR-1      32    0.0     0.000000 00000   0.00         0000     00000
INCR-1      33    0.0     0.0000   00.000  0.00          000     00000
INCR-1      34    0.0     0.188823 23.25   0.14          22.5    286.9
INCR-1      35    0.0     0.0000   00.000  0.00          000     00000
INCR-1      36    0.0     0.000000 00000   0.00         0000     00000
INCR-1      37    0.0     0.0000   00.000  0.00          000     00000
INCR-1      38    0.0     0.0000   00.000  0.00          000     00000
INCR-1      39    0.0     0.000000 00000   0.00         0000     00000
INCR-1      40    0.0     0.0000   00.000  0.00          000     00000
INCR-1      41    0.0     0.0000   00.000  0.00          000     00000
ENDATA16
!Incremental Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------********---------********---------********
!          R#      DO     BOD 1     NBOD    NH3 N   NIT NIT    BOD 2
```

```
INCR-2      1      5.23    1.53     0.00     0.0      0.00    0.000
INCR-2      2      0000    0.00     0.00     0.0      0.00     0.00
INCR-2      3      0000    0000     0.00     0.0      0.00     0.00
INCR-2      4      7.76   1.318    0.023     0.0      0.00    0.000
INCR-2      5      8.27   2.393    0.388     0.0      0.00    0.000
INCR-2      6      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2      7      0000    0.00     0.00     0.0      0.00     0000
INCR-2      8      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2      9      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     10      0000   00000     0000     0.0      0.00     0000
INCR-2     11      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     12      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     13      0000    0.00     0.00     0.0      0.00     0.00
INCR-2     14      0000    0.00     0.00     0.0      0.00     0.00
INCR-2     15      0000    0000     0.00     0.0      0.00     0.00
INCR-2     16      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     17      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     18      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     19      0000    0.00     0.00     0.0      0.00     0000
INCR-2     20      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     21      2.72   2.684    0.046     0.0      0.00    00000
INCR-2     22      0000   00000     0000     0.0      0.00     0000
INCR-2     23      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     24      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     25      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     26      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     27      0000   00000     0000     0.0      0.00     0000
INCR-2     28      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     29      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     30      0000    0.00     0.00     0.0      0.00     0.00
INCR-2     31      0000    0.00     0.00     0.0      0.00     0.00
INCR-2     32      0000    0000     0.00     0.0      0.00     0.00
INCR-2     33      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     34      1.53  16.385    2.553     0.0      0.00     0000
INCR-2     35      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     36      0000    0.00     0.00     0.0      0.00     0000
INCR-2     37      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     38      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     39      0000   00000     0000     0.0      0.00     0000
INCR-2     40      0.00    0.00     0.00     0.0      0.00     0.00
INCR-2     41      0.00    0.00     0.00     0.0      0.00     0.00
ENDATA17
```

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!Incremental Data for Phosphorus, Chlorophyll, Coliform and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********---------********
!          R#   PHOSPH    CHL A   COLIFORM NONCONSERVATIVE
!
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********---------********---------********
!          R#     BOD 1    NBOD   COLIFORM NONCONS    DO      BOD 2
NONPOINT    1        0.0   0.0000     0.00      0.0      0.0      0.0
NONPOINT    2      0.063   00.017     0.00     00.0      0.0      0.0
NONPOINT    3       00.0   0.0000     0.00      0.0      0.0      0.0
NONPOINT    4       25.0   05.000     0.00     00.0      0.0    000.0
NONPOINT    5       00.0   00.000     0.00     00.0      0.0    000.0
NONPOINT    6      0.032   00.009     0.00    000.0      0.0     00.0
NONPOINT    7       00.0   00.000     0.00      0.0      0.0     00.0
NONPOINT    8      0.046   00.013     0.00     00.0      0.0     00.0
NONPOINT    9       00.0   00.000     0.00    000.0      0.0    000.0
NONPOINT   10       50.0   26.000     0.00     00.0      0.0     00.0
NONPOINT   11      0.014   0.0040     0.00      0.0      0.0      0.0
NONPOINT   12       85.0   026.00     0.00    000.0      0.0    000.0
NONPOINT   13      0.047   00.013     0.00      0.0      0.0      0.0
NONPOINT   14         50   26.000     0.00     00.0      0.0      0.0
NONPOINT   15        250    90.00     0.00      0.0      0.0      0.0
NONPOINT   16      0.035   00.010     0.00     00.0      0.0    000.0
NONPOINT   17       00.0   00.000     0.00     00.0      0.0    000.0
NONPOINT   18      0.035   00.010     0.00    000.0      0.0     00.0
NONPOINT   19       00.0   00.000     0.00      0.0      0.0     00.0
NONPOINT   20      150.0  00.0000     0.00     00.0      0.0     00.0
NONPOINT   21       00.0      000     0.00    000.0      0.0    000.0
NONPOINT   22        0.1    0.028     0.00     00.0      0.0    000.0
NONPOINT   23       00.0      000     0.00      0.0      0.0      0.0
NONPOINT   24      0.005    0.002     0.00    000.0      0.0    000.0
NONPOINT   25       25.0      000     0.00     00.0      0.0     00.0
NONPOINT   26      000.0      000     0.00    000.0      0.0    000.0
NONPOINT   27      0.033    0.009     0.00     00.0      0.0     00.0
NONPOINT   28      35.00      000     0.00      0.0      0.0      0.0
NONPOINT   29       0.02    0.006     0.00    000.0      0.0    000.0
NONPOINT   30       35.0       00     0.00      0.0      0.0      0.0
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NONPOINT   31     390.00      200     0.00     00.0      0.0      0.0
NONPOINT   32       00.0   0.0000     0.00      0.0      0.0      0.0
NONPOINT   33      200.0  000.000     0.00     00.0      0.0    000.0
NONPOINT   34     000.00   00.000     0.00     00.0      0.0    000.0
NONPOINT   35      0.025   00.007     0.00    000.0      0.0     00.0
NONPOINT   36      65.00   000.00     0.00      0.0      0.0     00.0
NONPOINT   37      150.0   000.00     0.00     00.0      0.0     00.0
NONPOINT   38      50.00   000.00     0.00    000.0      0.0    00000
NONPOINT   39       00.0    0.000     0.00     00.0      0.0     00.0
NONPOINT   40       1500   500       0.00      0.0      0.0      0.0
NONPOINT   41        200     0000     0.00    000.0      0.0    000.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                       FLOW    TEMP  SALIN   CHLORIDE   COND
HDWTR-1     1  BAYOU LACOMBE            0.092    20.85  0.01       5.6   51.6
HDWTR-1    11  Ditch #1 Hwy 36 BL       0.00028  20.85  0.01       5.6   51.6
HDWTR-1   168  Ditch #2 SNG ditch       0.00028  20.85  0.01       5.6   51.6
HDWTR-1   192  Ditch#3Hwy434/I-12BL     0.00028  20.85  0.01       5.6   51.6
HDWTR-1   240  Ditch #4 Keller Barn     0.00028  20.85  0.01       5.6   51.6
HDWTR-1   276  Ditch#5 Beau Village     0.00028  20.85  0.01       5.6   51.6
HDWTR-1   341  Ditch #6 Hwy 190 BL      0.00028  20.85  0.01       5.6   51.6
HDWTR-1   373  Ditch#7 Hwy434/190BL     0.00028  20.85  0.01       5.6   51.6
HDWTR-1   426  Big Branch Bayou         0.009    21.66  0.00      10.4   95.61
HDWTR-1   436  Dich#8Hwy434/I-12BBB     0.00028  21.66  0.00      10.4   95.61
HDWTR-1   521  Ditch #9 Folger          0.00028  21.66  0.00      10.4   95.61
HDWTR-1   564  Ditch A BerryTodd Rd     0.00028  21.66  0.00      10.4   95.61
HDWTR-1   595  Ditch B Hwy 190 BBB      0.00028  21.66  0.00      10.4   95.61
HDWTR-1   650  Cypress Bayou            0.023    23.25  0.14      22.5   286.9
HDWTR-1   653  Ditch C Hwy 190 CB       0.00028  23.25  0.14      22.5   286.9
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD    NH3-N    NIT NIT  BOD 2
HDWTR-2     1      5.23     1.53     0.000   .00      .00      0.000
HDWTR-2    11      5.00     2.200    1.000   .00      .00      00000
HDWTR-2   168      5.00     2.200    1.000   .00      .00      00000
HDWTR-2   192      5.00     2.20     1.000   .00      .00      0.000
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HDWTR-2   240      5.00     2.200    1.000   .00      .00      00000
HDWTR-2   276      5.00     2.200    1.000   .00      .00      00000
HDWTR-2   341      4.00     2.20     1.000   .00      .00      0.000
HDWTR-2   373      4.00     2.200    1.000   .00      .00      00000
HDWTR-2   426      2.72     2.684    0.046   .00      .00      00000
HDWTR-2   436      4.00     2.20     1.000   .00      .00      0.000
HDWTR-2   521      4.00     2.200    1.000   .00      .00      00000
HDWTR-2   564      4.00     2.200    1.000   .00      .00      00000
HDWTR-2   595      4.00     2.20     1.000   .00      .00      0.000
HDWTR-2   650      1.53    16.385    2.553   .00      .00      00000
HDWTR-2   653      4.00     2.200    1.000   .00      .00      00000
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#  PHOSPHOR   CHL A   COLIFORM  NONCONSERVATIVE
ENDATA22
!         DS   US
JUNCTION  53   10   Hwy 36 ditch BL confluence with Bayou Lacombe
JUNCTION  189  167  Ditch #2-SNG Ditch confluence with Bayou Lacombe
JUNCTION  222  191  Ditch #3-Hwy 434/I-12 Ditch BL confluence with Bayou Lacombe
JUNCTION  249  239  Ditch #4-Keller Barn Ditch confluence with Bayou Lacombe
JUNCTION  306  275  Ditch #5-Beau Village Ditch confluence with Bayou Lacombe
JUNCTION  363  340  Ditch #6-Hwy 190 Ditch BL confluence with Bayou Lacombe
JUNCTION  395  372  Ditch #7-Hwy 434/190 Ditch BL confluence with Bayou Lacombe
JUNCTION  501  435  Ditch #8-Hwy 434/I-12 Ditch BBB confluence w/Big BranchBayou
JUNCTION  525  520  Ditch #9-Folger Ditch confluence with Big Branch Bayou
JUNCTION  584  563  Ditch A-Berry Todd Rd Ditch confluence with Big Branch Bayou
JUNCTION  608  594  Ditch B-Hwy 190 Ditch BBB confluence with Big Branch Bayou
JUNCTION  616  425  Big Branch Bayou confluence with Bayou Lacombe
JUNCTION  669  652  Ditch C-Hwy 190 Ditch CB confluence with Cypress Bayou
JUNCTION  715  649  Cypress Bayou confluence with Bayou Lacombe
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------------------********---------********---------********
!          E#     NAME                FLOW      TEMP   SALINITY CHLORIDE  COND
WSTLD-1    12  AI 138040 Animal Se 0.0001753   30.60    0.37     57.9    719.7
WSTLD-1    40  AI 120304 St Tamman 0.0001052   30.60    0.37     57.9    719.7
WSTLD-1   169  AI 94746 Southern N 0.0001095   30.60    0.37     57.9    719.7
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WSTLD-1   196  AI 155402 Axonic Ne 0.0000438   30.60    0.37     57.9    719.7
WSTLD-1   206  Cluster1Hwy434I12BL 0.0002230   30.60    0.37     57.9    719.7
WSTLD-1   208  Cluster2Hwy434I12BL 0.0004582   30.60    0.37     57.9    719.7
WSTLD-1   223  Unnamed Tributary   0.004389    21.85    0.02      7.4     62.6
WSTLD-1   241  AI 119164 St Tamman 0.0000061   30.60    0.37     57.9    719.7
WSTLD-1   272  AI 157591 Carmelite 0.0000219   30.60    0.37     57.9    719.7
WSTLD-1   277  AI 33916 WTSO Beau  0.0010515   30.60    0.37     57.9    719.7
WSTLD-1   325  AI 93344 US Fish &  0.0000491   30.60    0.37     57.9    719.7
WSTLD-1   342  AI 43023 Regina Coe 0.0000854   30.60    0.37     57.9    719.7
WSTLD-1   344  AI 40796 Janie Brow 0.0000767   30.60    0.37     57.9    719.7
WSTLD-1   349  Cluster 1 Hwy190 BL 0.0000166   30.60    0.37     57.9    719.7
WSTLD-1   350  Cluster 2 Hwy190 BL 0.0003395   30.60    0.37     57.9    719.7
WSTLD-1   352  Cluster 3 Hwy190 BL 0.0006432   30.60    0.37     57.9    719.7
WSTLD-1   353  Cluster 4 Hwy190 BL 0.0000390   30.60    0.37     57.9    719.7
WSTLD-1   354  AI 43406 Bayou Laco 0.0002015   30.60    0.37     57.9    719.7
WSTLD-1   358  Cluster 5 Hwy190 BL 0.0001406   30.60    0.37     57.9    719.7
WSTLD-1   360  Cluster 6 Hwy190 BL 0.0009637   30.60    0.37     57.9    719.7
WSTLD-1   374  AI 97944 Hwy 34 Min 0.0000009   30.60    0.37     57.9    719.7
WSTLD-1   390  AI 157861 Kingdom H 0.0000329   30.60    0.37     57.9    719.7
WSTLD-1   391  AI 119750 Highway 4 0.0000096   30.60    0.37     57.9    719.7
WSTLD-1   442  AI 165334 H2O Syste 0.0000307   30.60    0.37     57.9    719.7
WSTLD-1   464  AI 94173 Southeaste 0.0026288   30.60    0.37     57.9    719.7
WSTLD-1   522  AI 114220 Folger Co 0.0001753   30.60    0.37     57.9    719.7
WSTLD-1   565  AI 157509 Feather & 0.0024535   30.60    0.37     57.9    719.7
WSTLD-1   596  AI 156133 Python Co 0.0000053   30.60    0.37     57.9    719.7
WSTLD-1   602  AI 101375 OW Bayou  0.0000009   30.60    0.37     57.9    719.7
WSTLD-1   651  AI 31079 Brier Lake 0.0015334   23.06    0.26     23.5    516.3
WSTLD-1   654  AI 127495 A to Z Pr 0.0000745   30.60    0.37     57.9    719.7
WSTLD-1   655  AI 123821 Kevin J S 0.0000088   30.60    0.37     57.9    719.7
WSTLD-1   660  AI 157767 St Tamman 0.0000009   30.60    0.37     57.9    719.7
WSTLD-1   661  AI 157892 Mottie Mc 0.0000018   30.60    0.37     57.9    719.7
WSTLD-1   663  AI 119584 Tiller of 0.0000044   30.60    0.37     57.9    719.7
WSTLD-1   674  AI 41881 ICO Corp   0.0000035   30.60    0.37     57.9    719.7
WSTLD-1   677  AI 117076 LA Pines  0.0002190   30.60    0.37     57.9    719.7
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678890
!        ****  ---------*********----********---------*****---------*********
!          E#      DO      BOD 1         NBOD    NH3-N        NIT NIT   BOD 2
WSTLD-2    12     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2    40     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
```

```
WSTLD-2   169     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   196     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   206     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   208     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   223     4.24      3.887  0.0   0.137    0.00    0.0   0.00     00000
WSTLD-2   241     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   272     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   277     2.00       23.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   325     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   342     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   344     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   349     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   350     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   352     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   353     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   354     2.00       23.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   358     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   360     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   374     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   390     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   391     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   442     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   464     2.00       23.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   522     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   565     2.00       57.5  0.0    86.0    0.00    0.0   0.00     00000
WSTLD-2   596     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   602     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   651     2.39       23.0  0.0    43.0    0.00    0.0   0.00     00000
WSTLD-2   654     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   655     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   660     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   661     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   663     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   674     2.00      103.5  0.0    64.5    0.00    0.0   0.00     00000
WSTLD-2   677     2.00       69.0  0.0    64.5    0.00    0.0   0.00     00000
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345789012345678901234567890123456789 0
!        ****  ---------********---------*********
!          E#  PHOSPHOR  CHL A    COLIFORM NONCONSERVATIVE
ENDATA26
```

```
LOWER BC TEMPERATURE                        =  24.97
LOWER BC SALINITY                           =   7.02
LOWER BC CONSERVATIVE MATERIAL I (chloride) =   4128
LOWER BC CONSERVATIVE MATERIAL II (conduct) =  12216
LOWER BC DISSOLVED OXYGEN                   =   7.14
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =   5.012
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =   00000
LOWER BC CHLOROPHYLL A                      =   8.3
LOWER BC NBOD                               =   1.166
ENDATA27
!Dam Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ******************** ** ******** ******** ********
ENDATA28
SENSITIV BASEFLOW   30    -30
SENSITIV VELOCITY   30    -30
SENSITIV DEPTH      30    -30
SENSITIV DISPERSI   30    -30
SENSITIV REAERATI   30    -30
SENSITIV BOD DECA   30    -30
SENSITIV BOD SETT   30    -30
SENSITIV BOD2 DEC   30    -30
SENSITIV BOD2 SET   30    -30
SENSITIV TRANGE     30    -30
SENSITIV NBOD DEC   30    -30
SENSITIV NBOD SET   30    -30
SENSITIV BENTHAL    30    -30
SENSITIV TEMPERAT    2     -2
SENSITIV SALINITY   30    -30
SENSITIV CHLOR A    30    -30
SENSITIV INC INFL   30    -30
SENSITIV INC TEMP   30    -30
SENSITIV INC DO     30    -30
SENSITIV INC BOD    30    -30
SENSITIV INC BOD2   30    -30
SENSITIV INC NBOD   30    -30
SENSITIV HDW FLOW   30    -30
SENSITIV HDW TEMP   30    -30
SENSITIV HDW DO     30    -30
SENSITIV HDW BOD    30    -30
SENSITIV HDW BOD2   30    -30
```

```
SENSITIV HDW NBOD   30    -30
SENSITIV WSL FLOW   30    -30
SENSITIV WSL TEMP    2     -2
SENSITIV WSL DO     30    -30
SENSITIV WSL BOD    30    -30
SENSITIV WSL BOD2   30    -30
SENSITIV WSL NBOD   30    -30
SENSITIV OXR        30    -30
SENSITIV LBC TEMP    2     -2
SENSITIV LBC DO     30    -30
SENSITIV LBC BOD    30    -30
SENSITIV LBC BOD2   30    -30
SENSITIV LBC CHLO   30    -30
SENSITIV LBC NBOD   30    -30
SENSITIV NPS BOD    30    -30
SENSITIV NPS BOD2   30    -30
SENSITIV NPS NBOD   30    -30
ENDATA29
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
NUMBER OF PLOTS = 8
NUMBER OF REACHES IN PLOT 1 =  18
PLOT RCH 1  3  4  5  7  9  10 12 14 15 17 19 20 32 33 39 40 41
NUMBER OF REACHES IN PLOT 2 =   7
PLOT RCH 21 23 25 26 28 30 31
NUMBER OF REACHES IN PLOT 3 =   4
PLOT RCH 34 36 37 38
NUMBER OF REACHES IN PLOT 4 =   1
PLOT RCH 22
NUMBER OF REACHES IN PLOT 5 =   1
PLOT RCH 24
NUMBER OF REACHES IN PLOT 6 =   1
PLOT RCH 27
NUMBER OF REACHES IN PLOT 7 =   1
PLOT RCH 29
NUMBER OF REACHES IN PLOT 8 =   1
PLOT RCH 35
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
ENDATA30
```

```
!OVERLAY 1 OVLBL.txt                        BAYOU LACOMBE
!OVERLAY 2 OVLBBB.txt                       BIG BRANCH BAYOU
!OVERLAY 3 OVLCB.txt                        CYPRESS BAYOU
!OVERLAY 4 ovld8rch22.txt                   Hwy 434/I-12 ditch on BBB (D8, Rch 22)
!OVERLAY 5 ovld9rch24.txt                   Folger ditch on BBB (D9, Rch 24)
!OVERLAY 6 ovldarch27.txt                   Berry Todd Rd ditch on BBB (DA, Rch 27)
!OVERLAY 7 ovldbrch29.txt                   Hwy 190 ditch on BBB (DB, Rch 29)
!OVERLAY 8 ovldcrch35.txt                   Hwy 190 ditch on CB (DC, Rch 35)
ENDATA31
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
!NUMBER OF PLOTS = 7
!NUMBER OF REACHES IN PLOT 1 =   1
!PLOT RCH 2
!NUMBER OF REACHES IN PLOT 2 =   1
!PLOT RCH 6
!NUMBER OF REACHES IN PLOT 3 =   1
!PLOT RCH 8
!NUMBER OF REACHES IN PLOT 4 =   1
!PLOT RCH 11
!NUMBER OF REACHES IN PLOT 5 =   1
!PLOT RCH 13
!NUMBER OF REACHES IN PLOT 6 =   1
!PLOT RCH 16
!NUMBER OF REACHES IN PLOT 7 =   1
!PLOT RCH 18
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
!ENDATA30
!OVERLAY 1 ovld1rch2.txt                    Hwy 36 ditch on BL (D1, Rch 2)
!OVERLAY 2 ovld2rch6.txt                    SNG ditch on BL (D2, Rch 6)
!OVERLAY 3 ovld3rch8.txt                    Hwy 434/I-12 ditch on BL (D3, Rch 8)
!OVERLAY 4 ovld4rch11.txt                   Keller Barn ditch on BL (D4, Rch 11)
!OVERLAY 5 ovld5rch13.txt                   Beau Village ditch on BL (D5, Rch 13)
!OVERLAY 6 ovld6rch16.txt                   Hwy 190 ditch on BL (D6, Rch 16)
!OVERLAY 7 ovld7rch18.txt                   Hwy 434/190 ditch on BL (D7, Rch 18)
!ENDATA31
```

BAYOU LACOMBE 040901 and 040902 Sensitivity Analysis Output Dataset

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is \\Alpha_nt\owreng\Personal_Folders\Bryan Hitt\Bayou Lacombe\Input Files\Sensitivity\Lacombe sensi input.txt
Output produced at 15:22 on 09/22/2011

$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$

CARD TYPE       CONTROL TITLES

TITLE01         BAYOU LACOMBE WATERSHED MODEL
TITLE02         CALIBRATION
CONTROL   YES   METRIC UNITS
ENDATA01

$$$ DATA TYPE 2 (MODEL OPTIONS) $$$

CARD TYPE       MODEL OPTION

MODOPT     NO   TEMPERATURE
MODOPT    YES   SALINITY
MODOPT    YES   CONSERVATIVE MATERIAL  I = CHLORIDE                  IN  mg/L     chloride
MODOPT    YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN  uS/cm    conduct
MODOPT    YES   DISSOLVED OXYGEN
MODOPT    YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT     NO   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT    YES   NBOD OXYGEN DEMAND
MODOPT     NO   PHOSPHORUS
MODOPT     NO   CHLOROPHYLL A
MODOPT     NO   MACROPHYTES
MODOPT     NO   COLIFORM
ENDATA02

$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         KL MINIMUM                        =        0.70000 meters/day
PROGRAM         INHIBITION CONTROL VALUE          =        3.00000 (inhibit all rates but SOD)
PROGRAM         DISPERSION EQUATION               =        1.00000 (values entered as a constant)
PROGRAM         OCEAN EXCHANGE RATIO              =        1.00000
PROGRAM         TIDE HEIGHT                       =        0.15200 meters
PROGRAM         TIDAL PERIOD                      =       25.00000 hours
PROGRAM         PERIOD OF TIDAL RISE              =       12.50000 hours
PROGRAM         K2 MAXIMUM                        =       25.00000 per day
PROGRAM         HYDRAULIC CALCULATION METHOD      =        2.00000 (widths and depths)
PROGRAM         SETTLING RATE UNITS               =        2.00000 (values entered as per day)
ENDATA03

$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA05

$$$ DATA TYPE 6 (ALGAE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA06

$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                                   BEGIN         END     ELEM    REACH     ELEMS   BEGIN    END
CARD TYPE  REACH  ID  NAME                         REACH        REACH   LENGTH   LENGTH    PER RCH   ELEM   ELEM
                                                      km           km       km       km               NUM    NUM

REACH ID      1   BL  BL01 TO Hwy 36 Ditch BL      31.00  TO   30.90   0.0100     0.10       10       1     10
REACH ID      2   D1  Hwy 36 Ditch BL               4.20  TO    0.00   0.1000     4.20       42      11     52
```

```
REACH ID      3   BL  Hwy 36 Ditch BL to BL02              30.90  TO   25.20   0.1000     5.70      57       53    109
REACH ID      4   BL  BL02 to BL03                         25.20  TO   20.30   0.1000     4.90      49      110    158
REACH ID      5   BL  BL03 to SNG Ditch                    20.30  TO   19.40   0.1000     0.90       9      159    167
REACH ID      6   D2  SNG Ditch                             2.10  TO    0.00   0.1000     2.10      21      168    188
REACH ID      7   BL  SNG Ditch to Hwy434/I-12 Dich BL     19.40  TO   19.10   0.1000     0.30       3      189    191
REACH ID      8   D3  Hwy 434/I-12 Ditch BL                 3.00  TO    0.00   0.1000     3.00      30      192    221
REACH ID      9   BL  Hwy434/I-12DitchBL to BL04           19.10  TO   18.90   0.1000     0.20       2      222    223
REACH ID     10   BL  BL04 to Keller Barn Ditch            18.90  TO   17.30   0.1000     1.60      16      224    239
REACH ID     11   D4  Keller Barn Ditch                     0.90  TO    0.00   0.1000     0.90       9      240    248
REACH ID     12   BL  KellerBarnDitchToBeauVillageDich     17.30  TO   14.60   0.1000     2.70      27      249    275
REACH ID     13   D5  Beau Village Ditch                    3.00  TO    0.00   0.1000     3.00      30      276    305
REACH ID     14   BL  Beau Village Ditch to BL05           14.60  TO   13.20   0.1000     1.40      14      306    319
REACH ID     15   BL  BL05 to Hwy 190 Ditch BL             13.20  TO   11.10   0.1000     2.10      21      320    340
REACH ID     16   D6  Hwy 190 Ditch BL                      2.20  TO    0.00   0.1000     2.20      22      341    362
REACH ID     17   BL  Hwy190DitchBLtoHwy434/190DitchBL     11.10  TO   11.00   0.0100     0.10      10      363    372
REACH ID     18   D7  Hwy 434/190 Ditch BL                  2.20  TO    0.00   0.1000     2.20      22      373    394
REACH ID     19   BL  Hwy 434/190 Ditch BL to BL06         11.00  TO   10.90   0.0100     0.10      10      395    404
REACH ID     20   BL  BL06 to confluence with BBB          10.90  TO    8.80   0.1000     2.10      21      405    425
REACH ID     21   BB  BB03 to Hwy 434/I-12 ditch BBB        5.20  TO    5.10   0.0100     0.10      10      426    435
REACH ID     22   D8  Hwy 434/I-12 Ditch BBB                6.50  TO    0.00   0.1000     6.50      65      436    500
REACH ID     23   BB  Hwy434/I-12DitchBBBtoFolgerDitch      5.10  TO    4.90   0.0100     0.20      20      501    520
REACH ID     24   D9  Folger Ditch                          0.40  TO    0.00   0.1000     0.40       4      521    524
REACH ID     25   BB  Folger Ditch to BB02                  4.90  TO    2.00   0.1000     2.90      29      525    553
REACH ID     26   BB  BB02 to Berry Todd Rd Ditch           2.00  TO    1.90   0.0100     0.10      10      554    563
REACH ID     27   DA  Berry Todd Rd Ditch                   2.00  TO    0.00   0.1000     2.00      20      564    583
REACH ID     28   BB  BerryToddRdDitchtoHwy190DitchBBB      1.90  TO    0.80   0.1000     1.10      11      584    594
REACH ID     29   DB  Hwy 190 Ditch BBB                     1.30  TO    0.00   0.1000     1.30      13      595    607
REACH ID     30   BB  Hwy 190 Ditch BBB to BB01             0.80  TO    0.30   0.1000     0.50       5      608    612
REACH ID     31   BB  BB01toConfluenceWithBayouLacombe      0.30  TO    0.00   0.1000     0.30       3      613    615
REACH ID     32   BL  Big Branch Bayou to BL07              8.80  TO    8.70   0.0100     0.10      10      616    625
REACH ID     33   BL  BL07to confluence w/CypressBayou      8.70  TO    6.30   0.1000     2.40      24      626    649
REACH ID     34   CB  CB03 to Hwy 190 ditch CB              4.90  TO    4.60   0.1000     0.30       3      650    652
REACH ID     35   DC  Hwy 190 Ditch CB                      1.60  TO    0.00   0.1000     1.60      16      653    668
REACH ID     36   CB  Hwy 190 Ditch CB to CB02              4.60  TO    2.90   0.1000     1.70      17      669    685
REACH ID     37   CB  CB02 to CB01                          2.90  TO    0.20   0.1000     2.70      27      686    712
REACH ID     38   CB  CB01to confluence w/BayouLacombe      0.20  TO    0.00   0.1000     0.20       2      713    714
REACH ID     39   BL  Cypress Bayou to BL08                 6.30  TO    6.10   0.1000     0.20       2      715    716
REACH ID     40   BL  BL08 to BL09                          6.10  TO    0.30   0.1000     5.80      58      717    774
REACH ID     41   BL  BL09 to Lake Pontchartrain            0.30  TO    0.00   0.1000     0.30       3      775    777
ENDATA08

$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID       WIDTH       WIDTH       WIDTH       DEPTH       DEPTH       DEPTH      SLOPE    MANNINGS
                            "A"         "B"         "C"         "D"         "E"         "F"                   "N"

HYDR-1         1   BL       0.000       0.000       5.790       0.000       0.000       0.400    0.00000   0.020
HYDR-1         2   D1       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1         3   BL       0.000       0.000       5.790       0.000       0.000       0.400    0.00000   0.020
HYDR-1         4   BL       0.000       0.000       6.100       0.000       0.000       0.180    0.00000   0.020
HYDR-1         5   BL       0.000       0.000       7.160       0.000       0.000       0.170    0.00000   0.020
HYDR-1         6   D2       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1         7   BL       0.000       0.000       7.160       0.000       0.000       0.170    0.00000   0.020
HYDR-1         8   D3       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1         9   BL       0.000       0.000       7.160       0.000       0.000       0.170    0.00000   0.020
HYDR-1        10   BL       0.000       0.000       9.300       0.000       0.000       0.420    0.00000   0.020
HYDR-1        11   D4       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1        12   BL       0.000       0.000       9.300       0.000       0.000       0.420    0.00000   0.020
HYDR-1        13   D5       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1        14   BL       0.000       0.000       9.300       0.000       0.000       0.420    0.00000   0.020
HYDR-1        15   BL       0.000       0.000      25.300       0.000       0.000       3.600    0.00000   0.020
HYDR-1        16   D6       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1        17   BL       0.000       0.000      25.300       0.000       0.000       3.600    0.00000   0.020
HYDR-1        18   D7       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1        19   BL       0.000       0.000      25.300       0.000       0.000       3.600    0.00000   0.020
HYDR-1        20   BL       0.000       0.000      44.200       0.000       0.000       3.150    0.00000   0.020
HYDR-1        21   BB       0.000       0.000       3.660       0.000       0.000       0.390    0.00000   0.020
HYDR-1        22   D8       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1        23   BB       0.000       0.000       3.660       0.000       0.000       0.390    0.00000   0.020
HYDR-1        24   D9       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1        25   BB       0.000       0.000       3.660       0.000       0.000       0.390    0.00000   0.020
HYDR-1        26   BB       0.000       0.000      15.240       0.000       0.000       1.120    0.00000   0.020
HYDR-1        27   DA       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1        28   BB       0.000       0.000      15.240       0.000       0.000       1.120    0.00000   0.020
HYDR-1        29   DB       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1        30   BB       0.000       0.000      15.240       0.000       0.000       1.120    0.00000   0.020
HYDR-1        31   BB       0.000       0.000      39.620       0.000       0.000       2.130    0.00000   0.020
HYDR-1        32   BL       0.000       0.000      82.300       0.000       0.000       2.560    0.00000   0.020
HYDR-1        33   BL       0.000       0.000      82.300       0.000       0.000       2.560    0.00000   0.020
HYDR-1        34   CB       0.000       0.000       4.690       0.000       0.000       0.290    0.00000   0.020
HYDR-1        35   DC       0.000       0.000       1.000       0.000       0.000       0.050    0.00000   0.020
HYDR-1        36   CB       0.000       0.000       4.690       0.000       0.000       0.290    0.00000   0.020
HYDR-1        37   CB       0.000       0.000      14.020       0.000       0.000       1.390    0.00000   0.020
HYDR-1        38   CB       0.000       0.000      35.360       0.000       0.000       2.730    0.00000   0.020
```

```
HYDR-1       39   BL       0.000       0.000      74.680       0.000       0.000       3.030     0.00000   0.020
HYDR-1       40   BL       0.000       0.000      74.680       0.000       0.000       3.030     0.00000   0.020
HYDR-1       41   BL       0.000       0.000      99.360       0.000       0.000       1.800     0.00000   0.020
ENDATA09

$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                         RANGE        "A"            "B"            "C"            "D"

HYDR         1   BL      0.00        0.500          0.000          0.000          0.000
HYDR         2   D1      0.00        0.000          0.000          0.000          0.000
HYDR         3   BL      0.00        0.500          0.000          0.000          0.000
HYDR         4   BL      0.00        0.500          0.000          0.000          0.000
HYDR         5   BL      0.00        0.500          0.000          0.000          0.000
HYDR         6   D2      0.00        0.000          0.000          0.000          0.000
HYDR         7   BL      0.00        0.500          0.000          0.000          0.000
HYDR         8   D3      0.00        0.000          0.000          0.000          0.000
HYDR         9   BL      0.00        0.500          0.000          0.000          0.000
HYDR        10   BL      0.25        0.500          0.000          0.000          0.000
HYDR        11   D4      0.00        0.000          0.000          0.000          0.000
HYDR        12   BL      0.25        0.500          0.000          0.000          0.000
HYDR        13   D5      0.00        0.000          0.000          0.000          0.000
HYDR        14   BL      0.50        0.500          0.000          0.000          0.000
HYDR        15   BL      0.75        0.500          0.000          0.000          0.000
HYDR        16   D6      0.00        0.000          0.000          0.000          0.000
HYDR        17   BL      0.75        0.500          0.000          0.000          0.000
HYDR        18   D7      0.00        0.000          0.000          0.000          0.000
HYDR        19   BL      0.75        0.500          0.000          0.000          0.000
HYDR        20   BL      1.00        2.000          0.000          0.000          0.000
HYDR        21   BB      0.25        0.500          0.000          0.000          0.000
HYDR        22   D8      0.00        0.000          0.000          0.000          0.000
HYDR        23   BB      0.50        1.000          0.000          0.000          0.000
HYDR        24   D9      0.00        0.000          0.000          0.000          0.000
HYDR        25   BB      0.75        2.000          0.000          0.000          0.000
HYDR        26   BB      1.00        2.500          0.000          0.000          0.000
HYDR        27   DA      0.00        0.000          0.000          0.000          0.000
HYDR        28   BB      1.00        3.500          0.000          0.000          0.000
HYDR        29   DB      0.00        0.000          0.000          0.000          0.000
HYDR        30   BB      1.00        5.500          0.000          0.000          0.000
HYDR        31   BB      1.00        7.500          0.000          0.000          0.000
HYDR        32   BL      1.00        3.000          0.000          0.000          0.000
HYDR        33   BL      1.00        4.000          0.000          0.000          0.000
HYDR        34   CB      0.50        1.000          0.000          0.000          0.000
HYDR        35   DC      0.00        0.000          0.000          0.000          0.000
HYDR        36   CB      0.75        3.500          0.000          0.000          0.000
HYDR        37   CB      1.00        5.500          0.000          0.000          0.000
HYDR        38   CB      1.00        7.500          0.000          0.000          0.000
HYDR        39   BL      1.00        5.000          0.000          0.000          0.000
HYDR        40   BL      1.00        6.000          0.000          0.000          0.000
HYDR        41   BL      1.00        7.500          0.000          0.000          0.000
ENDATA10

$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$

CARD TYPE      REACH  ID       TEMP     SALIN        DO       NH3     NO3+2      PHOS     CHL A     MACRO

INITIAL          1   BL      20.85      0.01      5.23      0.00      0.00      0.00      0.00      0.00
INITIAL          2   D1      20.85      0.01      5.23      0.00      0.00      0.00      0.00      0.00
INITIAL          3   BL      20.85      0.01      5.23      0.00      0.00      0.00      0.00      0.00
INITIAL          4   BL      21.28      0.00      7.76      0.00      0.00      0.00      0.00      0.00
INITIAL          5   BL      22.03      0.00      8.27      0.00      0.00      0.00      0.00      0.00
INITIAL          6   D2      22.03      0.00      8.27      0.00      0.00      0.00      0.00      0.00
INITIAL          7   BL      22.03      0.00      8.27      0.00      0.00      0.00      0.00      0.00
INITIAL          8   D3      22.03      0.00      8.27      0.00      0.00      0.00      0.00      0.00
INITIAL          9   BL      22.03      0.00      8.27      0.00      0.00      0.00      0.00      0.00
INITIAL         10   BL      22.64      0.02      7.86      0.00      0.00      0.00      0.00      0.00
INITIAL         11   D4      22.64      0.02      7.86      0.00      0.00      0.00      0.00      0.00
INITIAL         12   BL      22.64      0.02      7.86      0.00      0.00      0.00      0.00      0.00
INITIAL         13   D5      22.64      0.02      7.86      0.00      0.00      0.00      0.00      0.00
INITIAL         14   BL      22.64      0.02      7.86      0.00      0.00      0.00      0.00      0.00
INITIAL         15   BL      23.12      0.36      3.92      0.00      0.00      0.00     10.60      0.00
INITIAL         16   D6      23.12      0.36      3.92      0.00      0.00      0.00      0.00      0.00
INITIAL         17   BL      23.12      0.36      3.92      0.00      0.00      0.00     10.60      0.00
INITIAL         18   D7      23.12      0.36      3.92      0.00      0.00      0.00      0.00      0.00
INITIAL         19   BL      23.12      0.36      3.92      0.00      0.00      0.00     10.60      0.00
INITIAL         20   BL      25.47      4.78      2.42      0.00      0.00      0.00     11.30      0.00
INITIAL         21   BB      21.66      0.00      2.72      0.00      0.00      0.00      2.60      0.00
INITIAL         22   D8      21.66      0.00      2.72      0.00      0.00      0.00      0.00      0.00
INITIAL         23   BB      21.66      0.00      2.72      0.00      0.00      0.00      2.60      0.00
INITIAL         24   D9      21.66      0.00      2.72      0.00      0.00      0.00      0.00      0.00
INITIAL         25   BB      21.66      0.00      2.72      0.00      0.00      0.00      2.60      0.00
INITIAL         26   BB      23.10      0.35      1.58      0.00      0.00      0.00     14.40      0.00
INITIAL         27   DA      23.10      0.35      1.58      0.00      0.00      0.00      0.00      0.00
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INITIAL	28	BB	23.10	0.35	1.58	0.00	0.00	0.00	14.40	0.00
INITIAL	29	DB	23.10	0.35	1.58	0.00	0.00	0.00	0.00	0.00
INITIAL	30	BB	23.10	0.35	1.58	0.00	0.00	0.00	14.40	0.00
INITIAL	31	BB	25.83	4.19	1.73	0.00	0.00	0.00	26.20	0.00
INITIAL	32	BL	25.85	4.08	4.03	0.00	0.00	0.00	20.20	0.00
INITIAL	33	BL	25.85	4.08	4.03	0.00	0.00	0.00	20.20	0.00
INITIAL	34	CB	23.25	0.14	1.53	0.00	0.00	0.00	24.60	0.00
INITIAL	35	DC	23.25	0.14	1.53	0.00	0.00	0.00	0.00	0.00
INITIAL	36	CB	23.25	0.14	1.53	0.00	0.00	0.00	24.60	0.00
INITIAL	37	CB	24.84	3.82	0.99	0.00	0.00	0.00	22.60	0.00
INITIAL	38	CB	25.27	5.34	5.35	0.00	0.00	0.00	20.60	0.00
INITIAL	39	BL	25.49	5.26	5.60	0.00	0.00	0.00	17.20	0.00
INITIAL	40	BL	25.49	5.26	5.60	0.00	0.00	0.00	17.20	0.00
INITIAL	41	BL	24.97	7.05	6.19	0.00	0.00	0.00	11.70	0.00

ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$

CARD TYPE	RCH NUM	RCH ID	K2 OPT	K2 "A"	K2 "B"	K2 "C"	BKGRND SOD g/m²/d	BOD DECAY per day	BOD SETT m/d	BOD CONV TO SOD	ANAER BOD2 DECAY per day	BOD2 DECAY per day	BOD2 SETT m/d	BOD2 CONV TO SOD	ANAER BOD2 DECAY per day
COEF-1	1	BL	11 TEXAS	0.000	0.000	0.000	0.000	0.034	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	D1	15 LOUISIANA	0.000	0.000	0.000	0.500	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	BL	11 TEXAS	0.000	0.000	0.000	0.250	0.034	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	BL	11 TEXAS	0.000	0.000	0.000	0.250	0.031	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	BL	11 TEXAS	0.000	0.000	0.000	1.750	0.038	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	D2	15 LOUISIANA	0.000	0.000	0.000	0.500	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	BL	11 TEXAS	0.000	0.000	0.000	1.750	0.038	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	D3	15 LOUISIANA	0.000	0.000	0.000	0.500	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	BL	11 TEXAS	0.000	0.000	0.000	1.750	0.038	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	BL	11 TEXAS	0.000	0.000	0.000	4.500	0.029	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	11	D4	15 LOUISIANA	0.000	0.000	0.000	0.500	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	BL	11 TEXAS	0.000	0.000	0.000	4.500	0.029	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	D5	15 LOUISIANA	0.000	0.000	0.000	0.500	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	BL	11 TEXAS	0.000	0.000	0.000	4.500	0.029	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	15	BL	3 OCONNER-DOBB	0.000	0.000	0.000	3.000	0.045	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	16	D6	15 LOUISIANA	0.000	0.000	0.000	0.500	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	17	BL	3 OCONNER-DOBB	0.000	0.000	0.000	3.000	0.045	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	18	D7	15 LOUISIANA	0.000	0.000	0.000	0.500	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	19	BL	3 OCONNER-DOBB	0.000	0.000	0.000	3.000	0.045	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	20	BL	3 OCONNER-DOBB	0.000	0.000	0.000	3.500	0.041	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	21	BB	11 TEXAS	0.000	0.000	0.000	2.000	0.070	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	22	D8	15 LOUISIANA	0.000	0.000	0.000	0.500	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	23	BB	11 TEXAS	0.000	0.000	0.000	2.000	0.070	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	24	D9	15 LOUISIANA	0.000	0.000	0.000	0.500	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	25	BB	11 TEXAS	0.000	0.000	0.000	6.000	0.070	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	26	BB	3 OCONNER-DOBB	0.000	0.000	0.000	7.000	0.053	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	27	DA	15 LOUISIANA	0.000	0.000	0.000	0.500	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	28	BB	3 OCONNER-DOBB	0.000	0.000	0.000	7.000	0.053	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	29	DB	15 LOUISIANA	0.000	0.000	0.000	0.500	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	30	BB	3 OCONNER-DOBB	0.000	0.000	0.000	7.000	0.053	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	31	BB	3 OCONNER-DOBB	0.000	0.000	0.000	7.000	0.049	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	32	BL	3 OCONNER-DOBB	0.000	0.000	0.000	3.500	0.048	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	33	BL	3 OCONNER-DOBB	0.000	0.000	0.000	1.000	0.048	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	34	CB	11 TEXAS	0.000	0.000	0.000	6.000	0.069	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	35	DC	15 LOUISIANA	0.000	0.000	0.000	0.500	0.080	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	36	CB	11 TEXAS	0.000	0.000	0.000	6.000	0.069	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	37	CB	3 OCONNER-DOBB	0.000	0.000	0.000	6.000	0.052	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	38	CB	3 OCONNER-DOBB	0.000	0.000	0.000	0.000	0.054	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	39	BL	3 OCONNER-DOBB	0.000	0.000	0.000	1.000	0.051	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	40	BL	3 OCONNER-DOBB	0.000	0.000	0.000	1.500	0.051	0.050	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	41	BL	3 OCONNER-DOBB	0.000	0.000	0.000	0.000	0.063	0.050	0.000	0.000	0.000	0.000	0.000	0.000

ENDATA12

$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$

CARD TYPE	REACH	ID	NBOD DECA	NBOD SETT	ORGN CONV TO NH3 SRCE	NH3 DECA	NH3 SRCE	PHOS SRCE	DENIT RATE
COEF-2	1	BL	0.005	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	2	D1	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	3	BL	0.005	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	4	BL	0.595	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	5	BL	0.041	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	6	D2	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	7	BL	0.041	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	8	D3	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	9	BL	0.041	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	10	BL	0.070	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	11	D4	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	12	BL	0.070	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	13	D5	0.030	0.050	0.000	0.000	0.000	0.000	0.000
COEF-2	14	BL	0.070	0.050	0.000	0.000	0.000	0.000	0.000

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COEF-2          15  BL      0.052     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          16  D6      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          17  BL      0.052     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          18  D7      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          19  BL      0.052     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          20  BL      0.089     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          21  BB      0.595     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          22  D8      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          23  BB      0.595     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          24  D9      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          25  BB      0.595     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          26  BB      0.106     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          27  DA      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          28  BB      0.106     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          29  DB      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          30  BB      0.106     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          31  BB      0.042     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          32  BL      0.129     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          33  BL      0.129     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          34  CB      0.136     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          35  DC      0.030     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          36  CB      0.136     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          37  CB      0.054     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          38  CB      0.080     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          39  BL      0.064     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          40  BL      0.064     0.050     0.000       0.000     0.000     0.000     0.000
COEF-2          41  BL      0.101     0.050     0.000       0.000     0.000     0.000     0.000
ENDATA13

$$$ DATA TYPE 14 (ALGAE AND MACROPHYTE COEFFICIENTS) $$$

CARD TYPE      REACH  ID       SECCHI    ALGAE:     ALGAE    ALG CONV     ALGAE     ALGAE     MACRO     MACRO
                                DEPTH     CHL A      SETT     TO SOD       GROW      RESP      GROW      RESP   SHADING

ENDATA14

$$$ DATA TYPE 15 (COLIFORM AND NONCONSERVATIVE COEFFICIENTS) $$$

CARD TYPE      REACH  ID    COLIFORM       NCM       NCM    NCM CONV
                             DIE-OFF     DECAY      SETT     TO SOD

ENDATA15

$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE      REACH  ID       OUTFLOW      INFLOW      TEMP     SALIN      CM-I     CM-II   IN/DIST  OUT/DIST

INCR-1           1   BL      0.00000     0.17996     20.85      0.01      5.60     51.60   1.79958   0.00000
INCR-1           2   D1      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           3   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           4   BL      0.00000     0.04188     21.28      0.00      5.50     56.00   0.00855   0.00000
INCR-1           5   BL      0.00000     0.04326     22.03      0.00      5.70     58.04   0.04807   0.00000
INCR-1           6   D2      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           7   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           8   D3      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1           9   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          10   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          11   D4      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          12   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          13   D5      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          14   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          15   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          16   D6      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          17   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          18   D7      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          19   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          20   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          21   BB      0.00000     0.14751     21.66      0.00     10.40     95.61   1.47505   0.00000
INCR-1          22   D8      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          23   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          24   D9      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          25   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          26   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          27   DA      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          28   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          29   DB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          30   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          31   BB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          32   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          33   BL      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          34   CB      0.00000     0.18882     23.25      0.14     22.50    286.90   0.62941   0.00000
INCR-1          35   DC      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          36   CB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          37   CB      0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
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INCR-1          38   CB       0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          39   BL       0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          40   BL       0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          41   BL       0.00000     0.00000      0.00      0.00      0.00      0.00   0.00000   0.00000
ENDATA16

$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

INCR-2           1   BL        5.23      1.53      0.00      0.00      0.00       0.00
INCR-2           2   D1        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2           3   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2           4   BL        7.76      1.32      0.02      0.00      0.00       0.00
INCR-2           5   BL        8.27      2.39      0.39      0.00      0.00       0.00
INCR-2           6   D2        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2           7   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2           8   D3        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2           9   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          10   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          11   D4        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          12   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          13   D5        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          14   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          15   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          16   D6        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          17   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          18   D7        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          19   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          20   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          21   BB        2.72      2.68      0.05      0.00      0.00       0.00
INCR-2          22   D8        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          23   BB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          24   D9        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          25   BB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          26   BB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          27   DA        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          28   BB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          29   DB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          30   BB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          31   BB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          32   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          33   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          34   CB        1.53     16.39      2.55      0.00      0.00       0.00
INCR-2          35   DC        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          36   CB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          37   CB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          38   CB        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          39   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          40   BL        0.00      0.00      0.00      0.00      0.00       0.00
INCR-2          41   BL        0.00      0.00      0.00      0.00      0.00       0.00
ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

ENDATA18

$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$

CARD TYPE      REACH  ID       BOD#1      NBOD      COLI       NCM        DO     BOD#2

NONPOINT         1   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT         2   D1        0.06      0.02      0.00      0.00      0.00       0.00
NONPOINT         3   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT         4   BL       25.00      5.00      0.00      0.00      0.00       0.00
NONPOINT         5   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT         6   D2        0.03      0.01      0.00      0.00      0.00       0.00
NONPOINT         7   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT         8   D3        0.05      0.01      0.00      0.00      0.00       0.00
NONPOINT         9   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT        10   BL       50.00     26.00      0.00      0.00      0.00       0.00
NONPOINT        11   D4        0.01      0.00      0.00      0.00      0.00       0.00
NONPOINT        12   BL       85.00     26.00      0.00      0.00      0.00       0.00
NONPOINT        13   D5        0.05      0.01      0.00      0.00      0.00       0.00
NONPOINT        14   BL       50.00     26.00      0.00      0.00      0.00       0.00
NONPOINT        15   BL      250.00     90.00      0.00      0.00      0.00       0.00
NONPOINT        16   D6        0.04      0.01      0.00      0.00      0.00       0.00
NONPOINT        17   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT        18   D7        0.04      0.01      0.00      0.00      0.00       0.00
NONPOINT        19   BL        0.00      0.00      0.00      0.00      0.00       0.00
NONPOINT        20   BL      150.00      0.00      0.00      0.00      0.00       0.00
NONPOINT        21   BB        0.00      0.00      0.00      0.00      0.00       0.00
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NONPOINT        22  D8       0.10      0.03      0.00      0.00      0.00      0.00
NONPOINT        23  BB       0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        24  D9       0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        25  BB      25.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        26  BB       0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        27  DA       0.03      0.01      0.00      0.00      0.00      0.00
NONPOINT        28  BB      35.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        29  DB       0.02      0.01      0.00      0.00      0.00      0.00
NONPOINT        30  BB      35.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        31  BB     390.00    200.00      0.00      0.00      0.00      0.00
NONPOINT        32  BL       0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        33  BL     200.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        34  CB       0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        35  DC       0.03      0.01      0.00      0.00      0.00      0.00
NONPOINT        36  CB      65.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        37  CB     150.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        38  CB      50.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        39  BL       0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        40  BL    1500.00    500.00      0.00      0.00      0.00      0.00
NONPOINT        41  BL     200.00      0.00      0.00      0.00      0.00      0.00
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                  UNIT     FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                        m³/s      cfs   deg C      ppt      mg/L     uS/cm

HDWTR-1         1     BAYOU LACOMBE           0   0.09200    3.249   20.85     0.01     5.600    51.600   0.00
HDWTR-1        11     Ditch #1 Hwy 36 BL      0   0.00028    0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1       168     Ditch #2 SNG ditch      0   0.00028    0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1       192     Ditch#3Hwy434/I-12BL    0   0.00028    0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1       240     Ditch #4 Keller Barn    0   0.00028    0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1       276     Ditch#5 Beau Village    0   0.00028    0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1       341     Ditch #6 Hwy 190 BL     0   0.00028    0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1       373     Ditch#7 Hwy434/190BL    0   0.00028    0.010   20.85     0.01     5.600    51.600   0.00
HDWTR-1       426     Big Branch Bayou        0   0.00900    0.318   21.66     0.00    10.400    95.610   0.00
HDWTR-1       436     Dich#8Hwy434/I-12BBB    0   0.00028    0.010   21.66     0.00    10.400    95.610   0.00
HDWTR-1       521     Ditch #9 Folger         0   0.00028    0.010   21.66     0.00    10.400    95.610   0.00
HDWTR-1       564     Ditch A BerryTodd Rd    0   0.00028    0.010   21.66     0.00    10.400    95.610   0.00
HDWTR-1       595     Ditch B Hwy 190 BBB     0   0.00028    0.010   21.66     0.00    10.400    95.610   0.00
HDWTR-1       650     Cypress Bayou           0   0.02300    0.812   23.25     0.14    22.500   286.900   0.00
HDWTR-1       653     Ditch C Hwy 190 CB      0   0.00028    0.010   23.25     0.14    22.500   286.900   0.00
ENDATA20

$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE     ELEMENT   NAME                        DO     BOD#1     NBOD                          BOD#2
                                                    mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2         1     BAYOU LACOMBE              5.23      1.53      0.00      0.00      0.00      0.00
HDWTR-2        11     Ditch #1 Hwy 36 BL         5.00      2.20      1.00      0.00      0.00      0.00
HDWTR-2       168     Ditch #2 SNG ditch         5.00      2.20      1.00      0.00      0.00      0.00
HDWTR-2       192     Ditch#3Hwy434/I-12BL       5.00      2.20      1.00      0.00      0.00      0.00
HDWTR-2       240     Ditch #4 Keller Barn       5.00      2.20      1.00      0.00      0.00      0.00
HDWTR-2       276     Ditch#5 Beau Village       5.00      2.20      1.00      0.00      0.00      0.00
HDWTR-2       341     Ditch #6 Hwy 190 BL        4.00      2.20      1.00      0.00      0.00      0.00
HDWTR-2       373     Ditch#7 Hwy434/190BL       4.00      2.20      1.00      0.00      0.00      0.00
HDWTR-2       426     Big Branch Bayou           2.72      2.68      0.05      0.00      0.00      0.00
HDWTR-2       436     Dich#8Hwy434/I-12BBB       4.00      2.20      1.00      0.00      0.00      0.00
HDWTR-2       521     Ditch #9 Folger            4.00      2.20      1.00      0.00      0.00      0.00
HDWTR-2       564     Ditch A BerryTodd Rd       4.00      2.20      1.00      0.00      0.00      0.00
HDWTR-2       595     Ditch B Hwy 190 BBB        4.00      2.20      1.00      0.00      0.00      0.00
HDWTR-2       650     Cypress Bayou              1.53     16.39      2.55      0.00      0.00      0.00
HDWTR-2       653     Ditch C Hwy 190 CB         4.00      2.20      1.00      0.00      0.00      0.00
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                       PHOS     CHL A      COLI       NCM
                                                    mg/L      mg/L      mg/L      mg/L

ENDATA22

$$$ DATA TYPE 23 (JUNCTION DATA) $$$

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

JUNCTION         53      10      30.90  Hwy 36 ditch BL confluence with Bayou Lacombe
JUNCTION        189     167      19.40  Ditch #2-SNG Ditch confluence with Bayou Lacombe
JUNCTION        222     191      19.10  Ditch #3-Hwy 434/I-12 Ditch BL confluence with Bayou Lacombe
JUNCTION        249     239      17.30  Ditch #4-Keller Barn Ditch confluence with Bayou Lacombe
JUNCTION        306     275      14.60  Ditch #5-Beau Village Ditch confluence with Bayou Lacombe
JUNCTION        363     340      11.10  Ditch #6-Hwy 190 Ditch BL confluence with Bayou Lacombe
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JUNCTION         395     372      11.00  Ditch #7-Hwy 434/190 Ditch BL confluence with Bayou Lacombe
JUNCTION         501     435       5.10  Ditch #8-Hwy 434/I-12 Ditch BBB confluence w/Big BranchBayou
JUNCTION         525     520       4.90  Ditch #9-Folger Ditch confluence with Big Branch Bayou
JUNCTION         584     563       1.90  Ditch A-Berry Todd Rd Ditch confluence with Big Branch Bayou
JUNCTION         608     594       0.80  Ditch B-Hwy 190 Ditch BBB confluence with Big Branch Bayou
JUNCTION         616     425       8.80  Big Branch Bayou confluence with Bayou Lacombe
JUNCTION         669     652       4.60  Ditch C-Hwy 190 Ditch CB confluence with Cypress Bayou
JUNCTION         715     649       6.30  Cypress Bayou confluence with Bayou Lacombe
ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE  ELEMENT    RKILO  NAME                      FLOW       FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                       m³/s        cfs      MGD   deg C      ppt      mg/L     uS/cm

WSTLD-1       12       4.10  AI 138040 Animal Se    0.00018    0.00619    0.004   30.60     0.37    57.900   719.700
WSTLD-1       40       1.30  AI 120304 St Tamman    0.00011    0.00371    0.002   30.60     0.37    57.900   719.700
WSTLD-1      169       2.00  AI 94746 Southern N    0.00011    0.00387    0.002   30.60     0.37    57.900   719.700
WSTLD-1      196       2.60  AI 155402 Axonic Ne    0.00004    0.00155    0.001   30.60     0.37    57.900   719.700
WSTLD-1      206       1.60  Cluster1Hwy434I12BL    0.00022    0.00787    0.005   30.60     0.37    57.900   719.700
WSTLD-1      208       1.40  Cluster2Hwy434I12BL    0.00046    0.01618    0.010   30.60     0.37    57.900   719.700
WSTLD-1      223      19.00  Unnamed Tributary      0.00439    0.15498    0.100   21.85     0.02     7.400    62.600
WSTLD-1      241       0.80  AI 119164 St Tamman    0.00001    0.00022    0.000   30.60     0.37    57.900   719.700
WSTLD-1      272      15.00  AI 157591 Carmelite    0.00002    0.00077    0.000   30.60     0.37    57.900   719.700
WSTLD-1      277       2.90  AI 33916 WTSO Beau     0.00105    0.03713    0.024   30.60     0.37    57.900   719.700
WSTLD-1      325      12.70  AI 93344 US Fish &     0.00005    0.00173    0.001   30.60     0.37    57.900   719.700
WSTLD-1      342       2.10  AI 43023 Regina Coe    0.00009    0.00302    0.002   30.60     0.37    57.900   719.700
WSTLD-1      344       1.90  AI 40796 Janie Brow    0.00008    0.00271    0.002   30.60     0.37    57.900   719.700
WSTLD-1      349       1.40  Cluster 1 Hwy190 BL    0.00002    0.00059    0.000   30.60     0.37    57.900   719.700
WSTLD-1      350       1.30  Cluster 2 Hwy190 BL    0.00034    0.01199    0.008   30.60     0.37    57.900   719.700
WSTLD-1      352       1.10  Cluster 3 Hwy190 BL    0.00064    0.02271    0.015   30.60     0.37    57.900   719.700
WSTLD-1      353       1.00  Cluster 4 Hwy190 BL    0.00004    0.00138    0.001   30.60     0.37    57.900   719.700
WSTLD-1      354       0.90  AI 43406 Bayou Laco    0.00020    0.00712    0.005   30.60     0.37    57.900   719.700
WSTLD-1      358       0.50  Cluster 5 Hwy190 BL    0.00014    0.00496    0.003   30.60     0.37    57.900   719.700
WSTLD-1      360       0.30  Cluster 6 Hwy190 BL    0.00096    0.03403    0.022   30.60     0.37    57.900   719.700
WSTLD-1      374       2.10  AI 97944 Hwy 34 Min    0.00000    0.00003    0.000   30.60     0.37    57.900   719.700
WSTLD-1      390       0.50  AI 157861 Kingdom H    0.00003    0.00116    0.001   30.60     0.37    57.900   719.700
WSTLD-1      391       0.40  AI 119750 Highway 4    0.00001    0.00034    0.000   30.60     0.37    57.900   719.700
WSTLD-1      442       5.90  AI 165334 H2O Syste    0.00003    0.00108    0.001   30.60     0.37    57.900   719.700
WSTLD-1      464       3.70  AI 94173 Southeaste    0.00263    0.09282    0.060   30.60     0.37    57.900   719.700
WSTLD-1      522       0.30  AI 114220 Folger Co    0.00018    0.00619    0.004   30.60     0.37    57.900   719.700
WSTLD-1      565       1.90  AI 157509 Feather &    0.00245    0.08663    0.056   30.60     0.37    57.900   719.700
WSTLD-1      596       1.20  AI 156133 Python Co    0.00001    0.00019    0.000   30.60     0.37    57.900   719.700
WSTLD-1      602       0.60  AI 101375 OW Bayou     0.00000    0.00003    0.000   30.60     0.37    57.900   719.700
WSTLD-1      651       4.80  AI 31079 Brier Lake    0.00153    0.05415    0.035   23.06     0.26    23.500   516.300
WSTLD-1      654       1.50  AI 127495 A to Z Pr    0.00007    0.00263    0.002   30.60     0.37    57.900   719.700
WSTLD-1      655       1.40  AI 123821 Kevin J S    0.00001    0.00031    0.000   30.60     0.37    57.900   719.700
WSTLD-1      660       0.90  AI 157767 St Tamman    0.00000    0.00003    0.000   30.60     0.37    57.900   719.700
WSTLD-1      661       0.80  AI 157892 Mottie Mc    0.00000    0.00006    0.000   30.60     0.37    57.900   719.700
WSTLD-1      663       0.60  AI 119584 Tiller of    0.00000    0.00016    0.000   30.60     0.37    57.900   719.700
WSTLD-1      674       4.10  AI 41881 ICO Corp      0.00000    0.00012    0.000   30.60     0.37    57.900   719.700
WSTLD-1      677       3.80  AI 117076 LA Pines     0.00022    0.00773    0.005   30.60     0.37    57.900   719.700
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                                % BOD                          %
CARD TYPE     ELEMENT   NAME                          DO       BOD      RMVL     NBOD                NITRIF                BOD#2
                                                     mg/L      mg/L                mg/L      mg/L                 mg/L      mg/L

WSTLD-2          12     AI 138040 Animal Se         2.00     69.00      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2          40     AI 120304 St Tamman         2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         169     AI 94746 Southern N         2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         196     AI 155402 Axonic Ne         2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         206     Cluster1Hwy434I12BL         2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         208     Cluster2Hwy434I12BL         2.00     69.00      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         223     Unnamed Tributary           4.24      3.89      0.00     0.14      0.00      0.00      0.00      0.00
WSTLD-2         241     AI 119164 St Tamman         2.00     69.00      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         272     AI 157591 Carmelite         2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         277     AI 33916 WTSO Beau          2.00     23.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         325     AI 93344 US Fish &          2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         342     AI 43023 Regina Coe         2.00     69.00      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         344     AI 40796 Janie Brow         2.00     69.00      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         349     Cluster 1 Hwy190 BL         2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         350     Cluster 2 Hwy190 BL         2.00     69.00      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         352     Cluster 3 Hwy190 BL         2.00     69.00      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         353     Cluster 4 Hwy190 BL         2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         354     AI 43406 Bayou Laco         2.00     23.00      0.00    43.00      0.00      0.00      0.00      0.00
WSTLD-2         358     Cluster 5 Hwy190 BL         2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         360     Cluster 6 Hwy190 BL         2.00     69.00      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         374     AI 97944 Hwy 34 Min         2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         390     AI 157861 Kingdom H         2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         391     AI 119750 Highway 4         2.00     69.00      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         442     AI 165334 H2O Syste         2.00    103.50      0.00    64.50      0.00      0.00      0.00      0.00
WSTLD-2         464     AI 94173 Southeaste         2.00     23.00      0.00    43.00      0.00      0.00      0.00      0.00
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WSTLD-2         522     AI 114220 Folger Co         2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         565     AI 157509 Feather &         2.00     57.50      0.00     86.00      0.00      0.00      0.00      0.00
WSTLD-2         596     AI 156133 Python Co         2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         602     AI 101375 OW Bayou          2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         651     AI 31079 Brier Lake         2.39     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2         654     AI 127495 A to Z Pr         2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         655     AI 123821 Kevin J S         2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         660     AI 157767 St Tamman         2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         661     AI 157892 Mottie Mc         2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         663     AI 119584 Tiller of         2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         674     AI 41881 ICO Corp           2.00    103.50      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2         677     AI 117076 LA Pines          2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
ENDATA25

$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                        PHOS     CHL A      COLI       NCM
                                                    mg/L      mg/L      mg/L      mg/L

ENDATA26

$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$

CARD TYPE    CONSTITUENT                     CONCENTRATION

LOWER BC     TEMPERATURE                        =     24.970     deg C
LOWER BC     SALINITY                           =      7.020     ppt
LOWER BC     CONSERVATIVE MATERIAL I (chloride) =   4128.000     mg/L
LOWER BC     CONSERVATIVE MATERIAL II (conduct) =  12216.000     uS/cm
LOWER BC     DISSOLVED OXYGEN                   =      7.140     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND     =      5.012     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND     =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                      =      8.300     µg/L
LOWER BC     NBOD                               =      1.166     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$

CARD TYPE     ELEMENT   NAME                  EQN      "A"       "B"       "H"

ENDATA28

$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$

CARD TYPE       PARAMETER     COL 1     COL 2     COL 3     COL 4     COL 5     COL 6     COL 7     COL 8

SENSITIV         BASEFLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         VELOCITY      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         DEPTH         30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         DISPERSI      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         REAERATI      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD DECA      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD SETT      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD2 DEC      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BOD2 SET      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         TRANGE        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NBOD DEC      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NBOD SET      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         BENTHAL       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         TEMPERAT       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         SALINITY      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         CHLOR A       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC INFL      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC TEMP      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         INC NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW FLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW TEMP      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL FLOW      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL TEMP       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         OXR           30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC TEMP       2.0      -2.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC DO        30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
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SENSITIV         LBC BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC CHLO      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NPS BOD       30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NPS BOD2      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NPS NBOD      30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
ENDATA29

$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$


NUMBER OF PLOTS =  8
NUMBER OF REACHES IN PLOT 1 =  18
PLOT RCH  1  3  4  5  7  9 10 12 14 15 17 19 20 32 33 39 40 41
NUMBER OF REACHES IN PLOT 2 =   7
PLOT RCH 21 23 25 26 28 30 31
NUMBER OF REACHES IN PLOT 3 =   4
PLOT RCH 34 36 37 38
NUMBER OF REACHES IN PLOT 4 =   1
PLOT RCH 22
NUMBER OF REACHES IN PLOT 5 =   1
PLOT RCH 24
NUMBER OF REACHES IN PLOT 6 =   1
PLOT RCH 27
NUMBER OF REACHES IN PLOT 7 =   1
PLOT RCH 29
NUMBER OF REACHES IN PLOT 8 =   1
PLOT RCH 35
ENDATA30

$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$


ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 21
     .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 22
     .....GRAPHICS DATA FOR PLOT 3 WRITTEN TO UNIT 23
     .....GRAPHICS DATA FOR PLOT 4 WRITTEN TO UNIT 24
     .....GRAPHICS DATA FOR PLOT 5 WRITTEN TO UNIT 25
     .....GRAPHICS DATA FOR PLOT 6 WRITTEN TO UNIT 26
     .....GRAPHICS DATA FOR PLOT 7 WRITTEN TO UNIT 27
     .....GRAPHICS DATA FOR PLOT 8 WRITTEN TO UNIT 28


FINAL REPORT    BAYOU LACOMBE                                   BAYOU LACOMBE WATERSHED MODEL
REACH NO.  1    BL01 TO Hwy 36 Ditch BL                         CALIBRATION

 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

    1  HDWTR     0.09200   20.85     0.01     5.60    51.60   5.23   1.53   0.00   1.53   0.00   0.00   0.00   0.00   0.00   0.00     0.00    0.00
 EACH  INCR      0.01800   20.85     0.01     5.60    51.60   5.23   1.53   0.00                  0.00   0.00   0.00   0.00    0.00    0.00

 ************************************************** HYDRAULIC PARAMETER VALUES **************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
  NO.    DIST    DIST               EFF     VELO      TIME                                  AREA    AREA     PRISM    VELO               VELO
          km      km        m³/s              m/s      days       m       m        m³         m²      m²        m³     m/s      m²/s     m/s

    1   31.00   30.99    0.11000   0.0   0.04749      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.047
    2   30.99   30.98    0.12799   0.0   0.05526      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.055
    3   30.98   30.97    0.14599   0.0   0.06303      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.063
    4   30.97   30.96    0.16398   0.0   0.07080      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.071
    5   30.96   30.95    0.18198   0.0   0.07857      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.079
    6   30.95   30.94    0.19998   0.0   0.08635      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.086
    7   30.94   30.93    0.21797   0.0   0.09412      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.094
    8   30.93   30.92    0.23597   0.0   0.10189      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.102
    9   30.92   30.91    0.25396   0.0   0.10966      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.110
   10   30.91   30.90    0.27196   0.0   0.11743      0.00    0.40    5.79     23.16      57.90    2.32      0.00   0.000     0.500   0.117

  TOT                                                0.02                     231.60     579.00
  AVG                                       0.0760             0.40    5.79                          2.32
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CUM 0.02

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	30.990	8.94	1.93	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	30.980	8.94	2.01	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	30.970	8.94	2.09	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	30.960	8.94	2.15	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	30.950	8.94	2.22	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	30.940	8.94	2.27	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	30.930	8.94	2.33	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	30.920	8.94	2.38	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	30.910	8.94	2.43	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	30.900	8.94	2.47	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.19	0.03	0.05	0.00	0.00	0.00	0.00	0.00			0.00	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
1	30.990	20.85	0.01	5.60	51.60	5.26	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
2	30.980	20.85	0.01	5.60	51.60	5.27	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
3	30.970	20.85	0.01	5.60	51.60	5.28	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
4	30.960	20.85	0.01	5.60	51.60	5.28	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
5	30.950	20.85	0.01	5.60	51.60	5.29	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
6	30.940	20.85	0.01	5.60	51.60	5.29	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
7	30.930	20.85	0.01	5.60	51.60	5.30	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
8	30.920	20.85	0.01	5.60	51.61	5.30	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
9	30.910	20.85	0.01	5.60	51.62	5.31	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
10	30.900	20.85	0.01	5.60	51.65	5.32	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 3 Hwy 36 Ditch BL to BL02 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
53	UPR RCH	0.27196	20.85	0.01	5.60	51.65	5.32	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	TRIB	0.00056	20.85	0.19	31.77	385.95	8.11	28.99	0.00	28.99	0.00	24.93	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
53	30.90	30.80	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
54	30.80	30.70	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
55	30.70	30.60	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
56	30.60	30.50	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
57	30.50	30.40	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
58	30.40	30.30	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
59	30.30	30.20	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
60	30.20	30.10	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
61	30.10	30.00	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
62	30.00	29.90	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
63	29.90	29.80	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
64	29.80	29.70	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
65	29.70	29.60	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
66	29.60	29.50	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
67	29.50	29.40	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
68	29.40	29.30	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
69	29.30	29.20	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
70	29.20	29.10	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
71	29.10	29.00	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
72	29.00	28.90	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
73	28.90	28.80	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
74	28.80	28.70	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
75	28.70	28.60	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118

76	28.60	28.50	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
77	28.50	28.40	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
78	28.40	28.30	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
79	28.30	28.20	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
80	28.20	28.10	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
81	28.10	28.00	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
82	28.00	27.90	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
83	27.90	27.80	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
84	27.80	27.70	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
85	27.70	27.60	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
86	27.60	27.50	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
87	27.50	27.40	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
88	27.40	27.30	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
89	27.30	27.20	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
90	27.20	27.10	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
91	27.10	27.00	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
92	27.00	26.90	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
93	26.90	26.80	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
94	26.80	26.70	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
95	26.70	26.60	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
96	26.60	26.50	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
97	26.50	26.40	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
98	26.40	26.30	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
99	26.30	26.20	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
100	26.20	26.10	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
101	26.10	26.00	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
102	26.00	25.90	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
103	25.90	25.80	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
104	25.80	25.70	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
105	25.70	25.60	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
106	25.60	25.50	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
107	25.50	25.40	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
108	25.40	25.30	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
109	25.30	25.20	0.27252	0.1	0.11767	0.01	0.40	5.79	231.60	579.00	2.32	0.00	0.000	0.500	0.118
TOT						0.56			13201.19	33003.00					
AVG					0.1177		0.40	5.79			2.32				
CUM						0.58									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
53	30.800	8.94	2.47	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	30.700	8.94	2.47	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	30.600	8.94	2.47	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	30.500	8.93	2.47	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	30.400	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	30.300	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	30.200	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	30.100	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	30.000	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62	29.900	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	29.800	8.93	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	29.700	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	29.600	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66	29.500	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67	29.400	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	29.300	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	29.200	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	29.100	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	29.000	8.92	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72	28.900	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	28.800	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	28.700	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	28.600	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	28.500	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	28.400	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	28.300	8.91	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	28.200	8.90	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	28.100	8.90	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81	28.000	8.90	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82	27.900	8.90	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	27.800	8.90	2.48	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	27.700	8.90	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	27.600	8.90	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	27.500	8.90	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	27.400	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	27.300	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	27.200	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	27.100	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

91	27.000	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	26.900	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	26.800	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	26.700	8.89	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	26.600	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	26.500	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	26.400	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	26.300	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	26.200	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	26.100	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	26.000	8.88	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	25.900	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	25.800	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	25.700	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	25.600	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	25.500	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	25.400	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	25.300	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	25.200	8.87	2.49	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.43	0.03	0.05	0.00	0.00	0.00	0.00	0.25			0.00	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
53	30.800	20.86	0.01	5.65	52.29	5.40	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
54	30.700	20.87	0.01	5.65	52.29	5.47	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
55	30.600	20.87	0.01	5.65	52.29	5.55	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
56	30.500	20.88	0.01	5.65	52.29	5.62	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
57	30.400	20.89	0.01	5.65	52.29	5.70	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
58	30.300	20.90	0.01	5.65	52.29	5.77	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
59	30.200	20.90	0.01	5.65	52.29	5.83	1.58	0.00	1.58	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
60	30.100	20.91	0.01	5.65	52.29	5.90	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
61	30.000	20.92	0.01	5.65	52.29	5.97	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
62	29.900	20.93	0.01	5.65	52.29	6.03	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
63	29.800	20.93	0.01	5.65	52.29	6.09	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
64	29.700	20.94	0.01	5.65	52.29	6.15	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
65	29.600	20.95	0.01	5.65	52.29	6.21	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
66	29.500	20.96	0.01	5.65	52.29	6.27	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
67	29.400	20.96	0.01	5.65	52.29	6.32	1.57	0.00	1.57	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
68	29.300	20.97	0.01	5.65	52.29	6.38	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
69	29.200	20.98	0.01	5.65	52.29	6.43	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
70	29.100	20.99	0.01	5.65	52.29	6.48	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
71	29.000	20.99	0.01	5.65	52.29	6.54	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
72	28.900	21.00	0.01	5.65	52.29	6.59	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
73	28.800	21.01	0.01	5.65	52.29	6.63	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
74	28.700	21.02	0.01	5.65	52.29	6.68	1.56	0.00	1.56	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
75	28.600	21.02	0.01	5.65	52.29	6.73	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
76	28.500	21.03	0.01	5.65	52.29	6.77	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
77	28.400	21.04	0.01	5.65	52.29	6.82	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
78	28.300	21.05	0.01	5.65	52.29	6.86	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
79	28.200	21.05	0.01	5.65	52.29	6.90	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
80	28.100	21.06	0.01	5.65	52.29	6.94	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
81	28.000	21.07	0.01	5.65	52.29	6.98	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
82	27.900	21.08	0.01	5.65	52.29	7.02	1.55	0.00	1.55	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
83	27.800	21.08	0.01	5.65	52.29	7.06	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
84	27.700	21.09	0.01	5.65	52.29	7.09	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
85	27.600	21.10	0.01	5.65	52.29	7.13	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
86	27.500	21.11	0.01	5.65	52.29	7.17	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
87	27.400	21.11	0.01	5.65	52.29	7.20	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
88	27.300	21.12	0.01	5.65	52.29	7.23	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
89	27.200	21.13	0.01	5.65	52.29	7.27	1.54	0.00	1.54	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
90	27.100	21.14	0.01	5.65	52.29	7.30	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
91	27.000	21.14	0.01	5.65	52.29	7.33	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
92	26.900	21.15	0.01	5.65	52.29	7.36	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
93	26.800	21.16	0.01	5.65	52.29	7.39	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
94	26.700	21.17	0.01	5.65	52.29	7.42	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
95	26.600	21.17	0.01	5.65	52.29	7.45	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
96	26.500	21.18	0.01	5.65	52.29	7.47	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
97	26.400	21.19	0.01	5.65	52.29	7.50	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
98	26.300	21.20	0.01	5.65	52.29	7.53	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
99	26.200	21.20	0.01	5.65	52.29	7.55	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
100	26.100	21.21	0.01	5.65	52.29	7.58	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
101	26.000	21.22	0.01	5.65	52.29	7.60	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
102	25.900	21.23	0.01	5.65	52.29	7.62	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
103	25.800	21.23	0.01	5.65	52.29	7.65	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
104	25.700	21.24	0.01	5.65	52.29	7.67	1.52	0.00	1.52	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
105	25.600	21.25	0.01	5.65	52.29	7.69	1.51	0.00	1.51	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
106	25.500	21.26	0.01	5.65	52.29	7.71	1.51	0.00	1.51	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

107	25.400	21.26	0.01	5.65	52.29	7.73	1.51	0.00	1.51	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
108	25.300	21.27	0.01	5.65	52.29	7.75	1.51	0.00	1.51	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
109	25.200	21.28	0.01	5.65	52.29	7.77	1.51	0.00	1.51	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 4 BL02 to BL03 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
110	UPR RCH	0.27252	21.28	0.01	5.65	52.29	7.77	1.51	0.00	1.51	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
EACH	INCR	0.00085	21.28	0.00	5.50	56.00	7.76	1.32	0.00			0.02	0.00	0.00	0.00	0.00	0.00	

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
110	25.20	25.10	0.27337	0.1	0.24897	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.249
111	25.10	25.00	0.27423	0.1	0.24975	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.250
112	25.00	24.90	0.27508	0.1	0.25053	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.251
113	24.90	24.80	0.27594	0.1	0.25131	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.251
114	24.80	24.70	0.27679	0.1	0.25209	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.252
115	24.70	24.60	0.27765	0.1	0.25287	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.253
116	24.60	24.50	0.27850	0.1	0.25365	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.254
117	24.50	24.40	0.27936	0.1	0.25442	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.254
118	24.40	24.30	0.28021	0.1	0.25520	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.255
119	24.30	24.20	0.28107	0.1	0.25598	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.256
120	24.20	24.10	0.28192	0.1	0.25676	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.257
121	24.10	24.00	0.28278	0.1	0.25754	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.258
122	24.00	23.90	0.28363	0.1	0.25832	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.258
123	23.90	23.80	0.28449	0.1	0.25909	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.259
124	23.80	23.70	0.28534	0.1	0.25987	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.260
125	23.70	23.60	0.28619	0.1	0.26065	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.261
126	23.60	23.50	0.28705	0.1	0.26143	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.261
127	23.50	23.40	0.28790	0.1	0.26221	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.262
128	23.40	23.30	0.28876	0.1	0.26299	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.263
129	23.30	23.20	0.28961	0.1	0.26376	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.264
130	23.20	23.10	0.29047	0.1	0.26454	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.265
131	23.10	23.00	0.29132	0.1	0.26532	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.265
132	23.00	22.90	0.29218	0.1	0.26610	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.266
133	22.90	22.80	0.29303	0.1	0.26688	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.267
134	22.80	22.70	0.29389	0.1	0.26766	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.268
135	22.70	22.60	0.29474	0.1	0.26844	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.268
136	22.60	22.50	0.29560	0.1	0.26921	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.269
137	22.50	22.40	0.29645	0.1	0.26999	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.270
138	22.40	22.30	0.29731	0.1	0.27077	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.271
139	22.30	22.20	0.29816	0.1	0.27155	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.272
140	22.20	22.10	0.29902	0.1	0.27233	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.272
141	22.10	22.00	0.29987	0.1	0.27311	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.273
142	22.00	21.90	0.30072	0.1	0.27388	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.274
143	21.90	21.80	0.30158	0.1	0.27466	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.275
144	21.80	21.70	0.30243	0.1	0.27544	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.275
145	21.70	21.60	0.30329	0.1	0.27622	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.276
146	21.60	21.50	0.30414	0.1	0.27700	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.277
147	21.50	21.40	0.30500	0.1	0.27778	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.278
148	21.40	21.30	0.30585	0.1	0.27855	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.279
149	21.30	21.20	0.30671	0.1	0.27933	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.279
150	21.20	21.10	0.30756	0.1	0.28011	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.280
151	21.10	21.00	0.30842	0.1	0.28089	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.281
152	21.00	20.90	0.30927	0.1	0.28167	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.282
153	20.90	20.80	0.31013	0.1	0.28245	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.282
154	20.80	20.70	0.31098	0.1	0.28322	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.283
155	20.70	20.60	0.31184	0.1	0.28400	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.284
156	20.60	20.50	0.31269	0.1	0.28478	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.285
157	20.50	20.40	0.31355	0.1	0.28556	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.286
158	20.40	20.30	0.31440	0.1	0.28634	0.00	0.18	6.10	109.80	610.00	1.10	0.00	0.000	0.500	0.286
TOT						0.21			5380.20	29890.00					
AVG					0.2672		0.18	6.10			1.10				
CUM						0.79									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da

110	25.100	8.86	6.25	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	25.000	8.86	6.26	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	24.900	8.86	6.27	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	24.800	8.85	6.27	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	24.700	8.85	6.28	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	24.600	8.85	6.29	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	24.500	8.85	6.29	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	24.400	8.84	6.30	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	24.300	8.84	6.31	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	24.200	8.84	6.32	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	24.100	8.84	6.32	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	24.000	8.83	6.33	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	23.900	8.83	6.34	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	23.800	8.83	6.34	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	23.700	8.83	6.35	0.03	0.05	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	23.600	8.82	6.36	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	23.500	8.82	6.37	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	23.400	8.82	6.37	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	23.300	8.82	6.38	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	23.200	8.81	6.39	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	23.100	8.81	6.39	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	23.000	8.81	6.40	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	22.900	8.81	6.41	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	22.800	8.80	6.41	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	22.700	8.80	6.42	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	22.600	8.80	6.43	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	22.500	8.79	6.44	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	22.400	8.79	6.44	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	22.300	8.79	6.45	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	22.200	8.79	6.46	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	22.100	8.78	6.46	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	22.000	8.78	6.47	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	21.900	8.78	6.48	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	21.800	8.78	6.48	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	21.700	8.77	6.49	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	21.600	8.77	6.50	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	21.500	8.77	6.50	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	21.400	8.77	6.51	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	21.300	8.76	6.52	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	21.200	8.76	6.53	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	21.100	8.76	6.53	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	21.000	8.76	6.54	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	20.900	8.75	6.55	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	20.800	8.75	6.55	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	20.700	8.75	6.56	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	20.600	8.75	6.57	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	20.500	8.74	6.57	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157	20.400	8.74	6.58	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	20.300	8.74	6.59	0.03	0.05	0.00	0.00	0.00	0.00	0.28	0.28	0.28	0.68	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.21	0.03	0.05	0.00	0.00	0.00	0.00	0.25			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
110	25.100	21.30	0.01	5.65	52.30	7.79	1.53	0.00	1.53	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
111	25.000	21.31	0.01	5.65	52.31	7.82	1.55	0.00	1.55	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
112	24.900	21.33	0.01	5.65	52.32	7.84	1.57	0.00	1.57	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
113	24.800	21.34	0.01	5.65	52.33	7.86	1.59	0.00	1.59	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
114	24.700	21.36	0.01	5.65	52.34	7.88	1.61	0.00	1.61	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
115	24.600	21.37	0.01	5.65	52.36	7.90	1.63	0.00	1.63	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
116	24.500	21.39	0.01	5.65	52.37	7.92	1.65	0.00	1.65	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
117	24.400	21.40	0.01	5.65	52.38	7.94	1.67	0.00	1.67	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
118	24.300	21.42	0.01	5.65	52.39	7.95	1.69	0.00	1.69	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
119	24.200	21.43	0.01	5.65	52.40	7.97	1.71	0.00	1.71	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
120	24.100	21.45	0.01	5.65	52.41	7.99	1.73	0.00	1.73	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
121	24.000	21.46	0.01	5.65	52.42	8.00	1.75	0.00	1.75	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
122	23.900	21.48	0.01	5.65	52.43	8.02	1.77	0.00	1.77	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
123	23.800	21.49	0.01	5.65	52.44	8.03	1.78	0.00	1.78	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
124	23.700	21.51	0.01	5.65	52.45	8.05	1.80	0.00	1.80	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
125	23.600	21.52	0.01	5.65	52.47	8.06	1.82	0.00	1.82	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
126	23.500	21.54	0.01	5.65	52.48	8.07	1.84	0.00	1.84	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
127	23.400	21.56	0.01	5.65	52.49	8.08	1.86	0.00	1.86	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
128	23.300	21.57	0.01	5.65	52.50	8.10	1.88	0.00	1.88	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
129	23.200	21.59	0.01	5.64	52.51	8.11	1.89	0.00	1.89	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
130	23.100	21.60	0.01	5.64	52.52	8.12	1.91	0.00	1.91	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
131	23.000	21.62	0.01	5.64	52.53	8.13	1.93	0.00	1.93	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
132	22.900	21.63	0.01	5.64	52.54	8.14	1.95	0.00	1.95	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

133	22.800	21.65	0.01	5.64	52.55	8.15	1.96	0.00	1.96	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
134	22.700	21.66	0.01	5.64	52.56	8.16	1.98	0.00	1.98	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
135	22.600	21.68	0.01	5.64	52.57	8.17	2.00	0.00	2.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
136	22.500	21.69	0.01	5.64	52.58	8.18	2.02	0.00	2.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
137	22.400	21.71	0.01	5.64	52.59	8.18	2.03	0.00	2.03	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
138	22.300	21.72	0.01	5.64	52.60	8.19	2.05	0.00	2.05	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
139	22.200	21.74	0.01	5.64	52.61	8.20	2.07	0.00	2.07	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
140	22.100	21.75	0.01	5.64	52.62	8.21	2.08	0.00	2.08	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
141	22.000	21.77	0.01	5.64	52.63	8.21	2.10	0.00	2.10	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
142	21.900	21.79	0.01	5.64	52.64	8.22	2.12	0.00	2.12	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
143	21.800	21.80	0.01	5.64	52.65	8.23	2.13	0.00	2.13	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
144	21.700	21.82	0.01	5.64	52.65	8.23	2.15	0.00	2.15	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
145	21.600	21.83	0.01	5.64	52.66	8.24	2.17	0.00	2.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
146	21.500	21.85	0.01	5.64	52.67	8.24	2.18	0.00	2.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
147	21.400	21.86	0.01	5.64	52.68	8.25	2.20	0.00	2.20	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
148	21.300	21.88	0.01	5.64	52.69	8.25	2.22	0.00	2.22	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
149	21.200	21.89	0.01	5.64	52.70	8.26	2.23	0.00	2.23	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
150	21.100	21.91	0.01	5.64	52.71	8.26	2.25	0.00	2.25	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
151	21.000	21.92	0.01	5.64	52.72	8.27	2.26	0.00	2.26	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
152	20.900	21.94	0.01	5.64	52.73	8.27	2.28	0.00	2.28	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
153	20.800	21.95	0.01	5.64	52.74	8.28	2.29	0.00	2.29	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
154	20.700	21.97	0.01	5.63	52.75	8.28	2.31	0.00	2.31	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
155	20.600	21.98	0.01	5.63	52.76	8.28	2.33	0.00	2.33	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
156	20.500	22.00	0.01	5.63	52.76	8.29	2.34	0.00	2.34	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
157	20.400	22.01	0.01	5.63	52.77	8.29	2.36	0.00	2.36	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
158	20.300	22.03	0.01	5.63	52.78	8.29	2.37	0.00	2.37	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 5 BL03 to SNG Ditch CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
159	UPR RCH	0.31440	22.03	0.01	5.63	52.78	8.29	2.37	0.00	2.37	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
EACH	INCR	0.00481	22.03	0.00	5.70	58.04	8.27	2.39	0.00			0.39	0.00	0.00	0.00	0.00	0.00	

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
159	20.30	20.20	0.31921	0.1	0.26225	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.262
160	20.20	20.10	0.32401	0.1	0.26620	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.266
161	20.10	20.00	0.32882	0.1	0.27014	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.270
162	20.00	19.90	0.33363	0.1	0.27409	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.274
163	19.90	19.80	0.33843	0.1	0.27804	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.278
164	19.80	19.70	0.34324	0.1	0.28199	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.282
165	19.70	19.60	0.34805	0.1	0.28594	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.286
166	19.60	19.50	0.35285	0.1	0.28989	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.290
167	19.50	19.40	0.35766	0.1	0.29384	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.294
TOT						0.04			1095.48	6444.00					
AVG					0.2777		0.17	7.16			1.22				
CUM						0.83									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
159	20.200	8.74	6.77	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	20.100	8.74	6.80	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	20.000	8.74	6.82	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	19.900	8.74	6.85	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163	19.800	8.74	6.88	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	19.700	8.74	6.90	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	19.600	8.74	6.93	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	19.500	8.74	6.96	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167	19.400	8.74	6.98	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.61	0.04	0.05	0.00	0.00	0.00	0.00	1.75			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
159	20.200	22.03	0.01	5.63	52.86	8.26	2.37	0.00	2.37	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
160	20.100	22.03	0.01	5.64	52.94	8.22	2.37	0.00	2.37	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
161	20.000	22.03	0.01	5.64	53.01	8.19	2.37	0.00	2.37	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
162	19.900	22.03	0.01	5.64	53.09	8.15	2.37	0.00	2.37	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
163	19.800	22.03	0.01	5.64	53.16	8.12	2.37	0.00	2.37	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
164	19.700	22.03	0.01	5.64	53.22	8.10	2.37	0.00	2.37	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
165	19.600	22.03	0.01	5.64	53.29	8.07	2.37	0.00	2.37	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
166	19.500	22.03	0.01	5.64	53.36	8.04	2.37	0.00	2.37	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
167	19.400	22.03	0.01	5.64	53.42	8.02	2.37	0.00	2.37	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 7 SNG Ditch to Hwy434/I-12 Dich BL — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
189	UPR RCH	0.35766	22.03	0.01	5.64	53.42	8.02	2.37	0.00	2.37	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
189	TRIB	0.00039	22.03	0.11	20.30	239.42	7.88	21.04	0.00	21.04	0.00	14.81	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
189	19.40	19.30	0.35805	0.1	0.29416	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.294
190	19.30	19.20	0.35805	0.1	0.29416	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.294
191	19.20	19.10	0.35805	0.1	0.29416	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.294
TOT						0.01			365.16	2148.00					
AVG					0.2942		0.17	7.16			1.22				
CUM						0.84									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
189	19.300	8.74	6.98	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	19.200	8.74	6.98	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
191	19.100	8.74	6.98	0.04	0.05	0.00	0.00	0.00	0.00	1.99	1.99	1.99	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.71	0.04	0.05	0.00	0.00	0.00	0.00	1.75			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
189	19.300	22.03	0.01	5.66	53.62	7.99	2.39	0.00	2.39	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
190	19.200	22.03	0.01	5.66	53.62	7.97	2.38	0.00	2.38	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
191	19.100	22.03	0.01	5.66	53.64	7.94	2.39	0.00	2.39	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 9 Hwy434/I-12DitchBL to BL04 — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
222	UPR RCH	0.35805	22.03	0.01	5.66	53.64	7.94	2.39	0.00	2.39	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
222	TRIB	0.00100	22.03	0.27	43.33	533.56	7.84	51.90	0.00	51.90	0.00	43.08	0.00	0.00	0.00	0.00	0.00	0.00
223	WSTLD	0.00439	21.85	0.02	7.40	62.60	4.24	3.89	0.00	3.89	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
222	19.10	19.00	0.35906	0.3	0.29498	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.295
223	19.00	18.90	0.36344	1.5	0.29859	0.00	0.17	7.16	121.72	716.00	1.22	0.00	0.000	0.500	0.299
TOT						0.01			243.44	1432.00					
AVG					0.2968		0.17	7.16			1.22				
CUM						0.85									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
222	19.000	8.69	7.03	0.04	0.05	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	18.900	8.64	7.10	0.04	0.05	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			6.73	0.04	0.05	0.00	0.00	0.00	0.00	1.75			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
222	19.000	22.33	0.01	5.76	54.97	7.92	2.52	0.00	2.52	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
223	18.900	22.64	0.01	5.78	55.06	7.84	2.54	0.00	2.54	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 10 BL04 to Keller Barn Ditch CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
224	UPR RCH	0.36344	22.64	0.01	5.78	55.06	7.84	2.54	0.00	2.54	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
224	18.90	18.80	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	35.34	0.000	0.500	0.093
225	18.80	18.70	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	70.68	0.000	0.500	0.093
226	18.70	18.60	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	106.02	0.001	0.500	0.093
227	18.60	18.50	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	141.36	0.001	0.500	0.093
228	18.50	18.40	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	176.70	0.001	0.500	0.093
229	18.40	18.30	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	212.04	0.001	0.500	0.093
230	18.30	18.20	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	247.38	0.001	0.500	0.093
231	18.20	18.10	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	282.72	0.002	0.500	0.093
232	18.10	18.00	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	318.06	0.002	0.500	0.093
233	18.00	17.90	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	353.40	0.002	0.500	0.093
234	17.90	17.80	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	388.74	0.002	0.500	0.093
235	17.80	17.70	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	424.08	0.002	0.500	0.093
236	17.70	17.60	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	459.42	0.003	0.500	0.093
237	17.60	17.50	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	494.76	0.003	0.500	0.093
238	17.50	17.40	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	530.10	0.003	0.500	0.093
239	17.40	17.30	0.36344	1.5	0.09305	0.01	0.42	9.30	390.60	930.00	3.91	565.44	0.003	0.500	0.093
TOT						0.20			6249.60	14880.00					
AVG					0.0930		0.42	9.30			3.91				
CUM						1.04									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
224	18.800	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225	18.700	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
226	18.600	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

227	18.500	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
228	18.400	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
229	18.300	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
230	18.200	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
231	18.100	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
232	18.000	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
233	17.900	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
234	17.800	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
235	17.700	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
236	17.600	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
237	17.500	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
238	17.400	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
239	17.300	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.18	0.03	0.05	0.00	0.00	0.00	0.00	4.50			0.07	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
224	18.800	22.64	0.01	5.78	55.06	7.71	2.64	0.00	2.64	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
225	18.700	22.64	0.01	5.78	55.06	7.58	2.74	0.00	2.74	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
226	18.600	22.64	0.01	5.78	55.06	7.46	2.83	0.00	2.83	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
227	18.500	22.64	0.01	5.78	55.06	7.33	2.93	0.00	2.93	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
228	18.400	22.64	0.01	5.78	55.06	7.22	3.02	0.00	3.02	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
229	18.300	22.64	0.01	5.78	55.06	7.10	3.12	0.00	3.12	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
230	18.200	22.64	0.01	5.78	55.06	6.99	3.22	0.00	3.22	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
231	18.100	22.64	0.01	5.78	55.06	6.88	3.31	0.00	3.31	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
232	18.000	22.64	0.01	5.78	55.06	6.77	3.41	0.00	3.41	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
233	17.900	22.64	0.01	5.78	55.06	6.67	3.50	0.00	3.50	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
234	17.800	22.64	0.01	5.78	55.06	6.57	3.60	0.00	3.60	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
235	17.700	22.64	0.01	5.78	55.06	6.47	3.70	0.00	3.70	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
236	17.600	22.64	0.01	5.78	55.06	6.38	3.79	0.00	3.79	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
237	17.500	22.64	0.01	5.78	55.06	6.28	3.89	0.00	3.89	0.00	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
238	17.400	22.64	0.01	5.78	55.06	6.19	3.98	0.00	3.98	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
239	17.300	22.64	0.01	5.78	55.06	6.11	4.08	0.00	4.08	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 12 KellerBarnDitchToBeauVillageDich CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
249	UPR RCH	0.36344	22.64	0.01	5.78	55.06	6.11	4.08	0.00	4.08	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00
249	TRIB	0.00029	22.64	0.02	6.72	65.84	7.86	3.33	0.00	3.33	0.00	2.17	0.00	0.00	0.00	0.00	0.00	0.00
272	WSTLD	0.00002	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
249	17.30	17.20	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	600.78	0.003	0.500	0.093
250	17.20	17.10	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	636.12	0.004	0.500	0.093
251	17.10	17.00	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	671.46	0.004	0.500	0.093
252	17.00	16.90	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	706.80	0.004	0.500	0.093
253	16.90	16.80	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	742.14	0.004	0.500	0.093
254	16.80	16.70	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	777.48	0.004	0.500	0.093
255	16.70	16.60	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	812.82	0.005	0.500	0.093
256	16.60	16.50	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	848.16	0.005	0.500	0.093
257	16.50	16.40	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	883.50	0.005	0.500	0.093
258	16.40	16.30	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	918.84	0.005	0.500	0.093
259	16.30	16.20	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	954.18	0.005	0.500	0.093
260	16.20	16.10	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	989.52	0.006	0.500	0.093
261	16.10	16.00	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1024.86	0.006	0.500	0.093
262	16.00	15.90	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1060.20	0.006	0.500	0.093
263	15.90	15.80	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1095.54	0.006	0.500	0.093
264	15.80	15.70	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1130.88	0.006	0.500	0.093
265	15.70	15.60	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1166.22	0.007	0.500	0.093
266	15.60	15.50	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1201.56	0.007	0.500	0.093
267	15.50	15.40	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1236.90	0.007	0.500	0.093
268	15.40	15.30	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1272.24	0.007	0.500	0.093
269	15.30	15.20	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1307.58	0.007	0.500	0.093
270	15.20	15.10	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1342.92	0.008	0.500	0.093

271	15.10	15.00	0.36373	1.5	0.09312	0.01	0.42	9.30	390.60	930.00	3.91	1378.26	0.008	0.500	0.093
272	15.00	14.90	0.36375	1.5	0.09313	0.01	0.42	9.30	390.60	930.00	3.91	1413.60	0.008	0.500	0.093
273	14.90	14.80	0.36375	1.5	0.09313	0.01	0.42	9.30	390.60	930.00	3.91	1448.94	0.008	0.500	0.093
274	14.80	14.70	0.36375	1.5	0.09313	0.01	0.42	9.30	390.60	930.00	3.91	1484.28	0.008	0.500	0.093
275	14.70	14.60	0.36375	1.5	0.09313	0.01	0.42	9.30	390.60	930.00	3.91	1519.62	0.009	0.500	0.093
TOT						0.34			10546.20	25110.00					
AVG					0.0931		0.42	9.30			3.91				
CUM						1.38									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
249	17.200	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250	17.100	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
251	17.000	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
252	16.900	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
253	16.800	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
254	16.700	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255	16.600	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
256	16.500	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
257	16.400	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
258	16.300	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
259	16.200	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
260	16.100	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
261	16.000	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
262	15.900	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
263	15.800	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
264	15.700	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
265	15.600	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
266	15.500	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
267	15.400	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
268	15.300	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
269	15.200	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270	15.100	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
271	15.000	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
272	14.900	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273	14.800	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	14.700	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
275	14.600	8.64	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.18	0.03	0.05	0.00	0.00	0.00	0.00	4.50			0.07	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* $g/m^2/d$ ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NCM
249	17.200	22.64	0.01	5.78	55.06	6.02	4.17	0.00	4.17	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
250	17.100	22.64	0.01	5.78	55.06	5.94	4.27	0.00	4.27	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
251	17.000	22.64	0.01	5.78	55.06	5.86	4.36	0.00	4.36	0.00	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
252	16.900	22.64	0.01	5.78	55.06	5.78	4.46	0.00	4.46	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
253	16.800	22.64	0.01	5.78	55.06	5.70	4.55	0.00	4.55	0.00	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
254	16.700	22.64	0.01	5.78	55.06	5.63	4.65	0.00	4.65	0.00	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
255	16.600	22.64	0.01	5.78	55.06	5.56	4.74	0.00	4.74	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
256	16.500	22.64	0.01	5.78	55.06	5.49	4.84	0.00	4.84	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
257	16.400	22.64	0.01	5.78	55.06	5.42	4.93	0.00	4.93	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
258	16.300	22.64	0.01	5.78	55.06	5.35	5.03	0.00	5.03	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
259	16.200	22.64	0.01	5.78	55.06	5.29	5.12	0.00	5.12	0.00	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
260	16.100	22.64	0.01	5.78	55.06	5.22	5.22	0.00	5.22	0.00	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
261	16.000	22.64	0.01	5.78	55.06	5.16	5.31	0.00	5.31	0.00	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
262	15.900	22.64	0.01	5.78	55.06	5.10	5.41	0.00	5.41	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
263	15.800	22.64	0.01	5.78	55.06	5.04	5.50	0.00	5.50	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
264	15.700	22.64	0.01	5.78	55.06	4.99	5.60	0.00	5.60	0.00	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
265	15.600	22.64	0.01	5.78	55.06	4.93	5.69	0.00	5.69	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
266	15.500	22.64	0.01	5.78	55.06	4.88	5.78	0.00	5.78	0.00	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
267	15.400	22.64	0.01	5.78	55.06	4.82	5.88	0.00	5.88	0.00	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
268	15.300	22.64	0.01	5.78	55.06	4.77	5.97	0.00	5.97	0.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
269	15.200	22.64	0.01	5.78	55.06	4.72	6.06	0.00	6.06	0.00	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
270	15.100	22.64	0.01	5.78	55.06	4.68	6.16	0.00	6.16	0.00	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
271	15.000	22.64	0.01	5.78	55.07	4.63	6.25	0.00	6.25	0.00	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
272	14.900	22.64	0.01	5.79	55.10	4.58	6.35	0.00	6.35	0.00	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
273	14.800	22.64	0.01	5.79	55.10	4.54	6.44	0.00	6.44	0.00	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
274	14.700	22.64	0.01	5.79	55.11	4.50	6.54	0.00	6.54	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
275	14.600	22.64	0.01	5.79	55.20	4.45	6.63	0.00	6.63	0.00	1.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 14 Beau Village Ditch to BL05 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
306	UPR RCH	0.36375	22.64	0.01	5.79	55.20	4.45	6.63	0.00	6.63	0.00	1.94	0.00	0.00	0.00	0.00	0.00	0.00
306	TRIB	0.00133	22.64	0.29	46.90	579.21	7.97	15.91	0.00	15.91	0.00	30.65	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
306	14.60	14.50	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	1590.30	0.009	0.500	0.093
307	14.50	14.40	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	1660.98	0.009	0.500	0.093
308	14.40	14.30	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	1731.66	0.010	0.500	0.093
309	14.30	14.20	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	1802.34	0.010	0.500	0.093
310	14.20	14.10	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	1873.02	0.011	0.500	0.093
311	14.10	14.00	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	1943.70	0.011	0.500	0.093
312	14.00	13.90	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2014.38	0.011	0.500	0.093
313	13.90	13.80	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2085.06	0.012	0.500	0.093
314	13.80	13.70	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2155.74	0.012	0.500	0.093
315	13.70	13.60	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2226.42	0.013	0.500	0.093
316	13.60	13.50	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2297.10	0.013	0.500	0.093
317	13.50	13.40	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2367.78	0.013	0.500	0.093
318	13.40	13.30	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2438.46	0.014	0.500	0.093
319	13.30	13.20	0.36508	1.8	0.09347	0.01	0.42	9.30	390.60	930.00	3.91	2509.14	0.014	0.500	0.093
TOT						0.17			5468.40	13020.00					
AVG					0.0935		0.42	9.30			3.91				
CUM						1.55									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
306	14.500	8.63	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.33	5.33	5.33	0.07	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
307	14.400	8.63	2.30	0.03	0.05	0.00	0.00	0.00	0.00	5.34	5.34	5.34	0.07	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
308	14.300	8.62	2.31	0.03	0.05	0.00	0.00	0.00	0.00	5.35	5.35	5.35	0.07	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
309	14.200	8.61	2.31	0.03	0.05	0.00	0.00	0.00	0.00	5.36	5.36	5.36	0.07	0.05	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
310	14.100	8.61	2.31	0.03	0.05	0.00	0.00	0.00	0.00	5.37	5.37	5.37	0.07	0.05	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
311	14.000	8.60	2.31	0.03	0.05	0.00	0.00	0.00	0.00	5.38	5.38	5.38	0.07	0.05	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
312	13.900	8.60	2.31	0.03	0.05	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.07	0.05	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
313	13.800	8.59	2.31	0.03	0.05	0.00	0.00	0.00	0.00	5.41	5.41	5.41	0.07	0.05	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
314	13.700	8.59	2.32	0.03	0.05	0.00	0.00	0.00	0.00	5.42	5.42	5.42	0.07	0.05	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
315	13.600	8.58	2.32	0.03	0.05	0.00	0.00	0.00	0.00	5.43	5.43	5.43	0.07	0.05	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00
316	13.500	8.57	2.32	0.03	0.05	0.00	0.00	0.00	0.00	5.44	5.44	5.44	0.07	0.05	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
317	13.400	8.57	2.32	0.03	0.05	0.00	0.00	0.00	0.00	5.45	5.45	5.45	0.07	0.05	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
318	13.300	8.56	2.32	0.03	0.05	0.00	0.00	0.00	0.00	5.47	5.47	5.47	0.07	0.05	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
319	13.200	8.56	2.32	0.03	0.05	0.00	0.00	0.00	0.00	5.48	5.48	5.48	0.07	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.19	0.03	0.05	0.00	0.00	0.00	0.00	4.50			0.07	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
306	14.500	22.67	0.01	5.94	57.02	4.43	6.77	0.00	6.77	0.00	2.10	0.00	0.00	0.00	0.00	0.76	0.00	0.	0.00
307	14.400	22.71	0.01	5.94	57.02	4.39	6.88	0.00	6.88	0.00	2.15	0.00	0.00	0.00	0.00	1.51	0.00	0.	0.00
308	14.300	22.74	0.01	5.94	57.02	4.35	6.98	0.00	6.98	0.00	2.21	0.00	0.00	0.00	0.00	2.27	0.00	0.	0.00
309	14.200	22.78	0.01	5.94	57.02	4.31	7.09	0.00	7.09	0.00	2.26	0.00	0.00	0.00	0.00	3.03	0.00	0.	0.00
310	14.100	22.81	0.01	5.94	57.02	4.27	7.19	0.00	7.19	0.00	2.32	0.00	0.00	0.00	0.00	3.79	0.00	0.	0.00
311	14.000	22.85	0.01	5.94	57.02	4.24	7.30	0.00	7.30	0.00	2.37	0.00	0.00	0.00	0.00	4.54	0.00	0.	0.00
312	13.900	22.88	0.01	5.94	57.02	4.20	7.40	0.00	7.40	0.00	2.43	0.00	0.00	0.00	0.00	5.30	0.00	0.	0.00
313	13.800	22.91	0.01	5.94	57.02	4.17	7.51	0.00	7.51	0.00	2.48	0.00	0.00	0.00	0.00	6.06	0.00	0.	0.00
314	13.700	22.95	0.01	5.94	57.02	4.14	7.61	0.00	7.61	0.00	2.54	0.00	0.00	0.00	0.00	6.81	0.00	0.	0.00
315	13.600	22.98	0.01	5.94	57.02	4.10	7.72	0.00	7.72	0.00	2.59	0.00	0.00	0.00	0.00	7.57	0.00	0.	0.00
316	13.500	23.02	0.01	5.94	57.02	4.07	7.82	0.00	7.82	0.00	2.65	0.00	0.00	0.00	0.00	8.33	0.00	0.	0.00
317	13.400	23.05	0.01	5.94	57.02	4.04	7.93	0.00	7.93	0.00	2.70	0.00	0.00	0.00	0.00	9.09	0.00	0.	0.00
318	13.300	23.09	0.01	5.94	57.02	4.01	8.04	0.00	8.04	0.00	2.76	0.00	0.00	0.00	0.00	9.84	0.00	0.	0.00
319	13.200	23.12	0.01	5.94	57.02	3.97	8.24	0.00	8.24	0.00	2.85	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 15 BL05 to Hwy 190 Ditch BL CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
320	UPR RCH	0.36508	23.12	0.01	5.94	57.02	3.97	8.24	0.00	8.24	0.00	2.85	0.00	0.00	0.00	10.60	0.00	0.00
325	WSTLD	0.00005	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
320	13.20	13.10	0.36508	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	2797.56	0.001	0.500	0.004
321	13.10	13.00	0.36508	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	3085.98	0.001	0.500	0.004
322	13.00	12.90	0.36508	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	3374.40	0.001	0.500	0.004
323	12.90	12.80	0.36508	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	3662.82	0.001	0.500	0.004
324	12.80	12.70	0.36508	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	3951.24	0.001	0.500	0.004
325	12.70	12.60	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	4239.66	0.001	0.500	0.004
326	12.60	12.50	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	4528.08	0.001	0.500	0.004
327	12.50	12.40	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	4816.50	0.001	0.500	0.004
328	12.40	12.30	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	5104.92	0.001	0.500	0.004
329	12.30	12.20	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	5393.34	0.001	0.500	0.004
330	12.20	12.10	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	5681.76	0.001	0.500	0.004
331	12.10	12.00	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	5970.18	0.001	0.500	0.004
332	12.00	11.90	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	6258.60	0.002	0.500	0.004
333	11.90	11.80	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	6547.02	0.002	0.500	0.004
334	11.80	11.70	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	6835.44	0.002	0.500	0.004
335	11.70	11.60	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	7123.86	0.002	0.500	0.004
336	11.60	11.50	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	7412.28	0.002	0.500	0.004
337	11.50	11.40	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	7700.70	0.002	0.500	0.004
338	11.40	11.30	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	7989.12	0.002	0.500	0.004
339	11.30	11.20	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	8277.54	0.002	0.500	0.004
340	11.20	11.10	0.36513	1.8	0.00401	0.29	3.60	25.30	9108.00	2530.00	91.08	8565.96	0.002	0.500	0.004
TOT						6.06			191267.98	53130.00					
AVG					0.0040		3.60	25.30			91.08				
CUM						7.62									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
320	13.100	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.06	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
321	13.000	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.06	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
322	12.900	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.06	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
323	12.800	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.06	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
324	12.700	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
325	12.600	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
326	12.500	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
327	12.400	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
328	12.300	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
329	12.200	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
330	12.100	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
331	12.000	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
332	11.900	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
333	11.800	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
334	11.700	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
335	11.600	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
336	11.500	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
337	11.400	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
338	11.300	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
339	11.200	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
340	11.100	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.19	0.05	0.05	0.00	0.00	0.00	0.00	3.00			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM	ENDING	TEMP	SALN	chloride	conduct	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM

NO.	DIST	DEG C	PPT	mg/L	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL	
320	13.100	23.12	0.01	5.94	57.02	3.95	8.40	0.00	8.40	0.00	2.90	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
321	13.000	23.12	0.01	5.94	57.02	3.94	8.51	0.00	8.51	0.00	2.95	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
322	12.900	23.12	0.01	5.94	57.03	3.92	8.62	0.00	8.62	0.00	2.99	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
323	12.800	23.12	0.01	5.94	57.04	3.90	8.73	0.00	8.73	0.00	3.03	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
324	12.700	23.12	0.01	5.94	57.07	3.88	8.84	0.00	8.84	0.00	3.07	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
325	12.600	23.12	0.01	5.94	57.11	3.86	8.94	0.00	8.94	0.00	3.11	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
326	12.500	23.12	0.01	5.94	57.11	3.84	9.04	0.00	9.04	0.00	3.14	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
327	12.400	23.12	0.01	5.94	57.11	3.82	9.14	0.00	9.14	0.00	3.18	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
328	12.300	23.12	0.01	5.94	57.11	3.80	9.23	0.00	9.23	0.00	3.21	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
329	12.200	23.12	0.01	5.94	57.11	3.77	9.32	0.00	9.32	0.00	3.25	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
330	12.100	23.12	0.01	5.95	57.12	3.75	9.40	0.00	9.40	0.00	3.28	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
331	12.000	23.12	0.01	5.95	57.13	3.73	9.49	0.00	9.49	0.00	3.31	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
332	11.900	23.12	0.01	5.95	57.15	3.71	9.57	0.00	9.57	0.00	3.34	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
333	11.800	23.12	0.01	5.95	57.18	3.68	9.65	0.00	9.65	0.00	3.37	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
334	11.700	23.12	0.01	5.96	57.24	3.66	9.72	0.00	9.72	0.00	3.40	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
335	11.600	23.12	0.01	5.98	57.34	3.64	9.80	0.00	9.80	0.00	3.43	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
336	11.500	23.12	0.01	6.00	57.53	3.61	9.86	0.00	9.86	0.00	3.46	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
337	11.400	23.12	0.01	6.05	57.87	3.59	9.92	0.00	9.92	0.00	3.48	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
338	11.300	23.12	0.01	6.13	58.49	3.57	9.96	0.00	9.96	0.00	3.51	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
339	11.200	23.12	0.01	6.29	59.60	3.54	9.98	0.00	9.98	0.00	3.54	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
340	11.100	23.12	0.01	6.56	61.60	3.51	9.97	0.00	9.97	0.00	3.57	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 17 Hwy190DitchBLtoHwy434/190DitchBL CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
363	UPR RCH	0.36513	23.12	0.01	6.56	61.60	3.51	9.97	0.00	9.97	0.00	3.57	0.00	0.00	0.00	10.60	0.00	0.00
363	TRIB	0.00279	23.12	0.33	52.64	652.56	7.25	58.88	0.00	58.88	0.00	55.06	0.00	0.00	0.00	10.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
363	11.10	11.09	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8594.80	0.002	0.500	0.004
364	11.09	11.08	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8623.64	0.002	0.500	0.004
365	11.08	11.07	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8652.48	0.002	0.500	0.004
366	11.07	11.06	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8681.33	0.002	0.500	0.004
367	11.06	11.05	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8710.17	0.002	0.500	0.004
368	11.05	11.04	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8739.01	0.002	0.500	0.004
369	11.04	11.03	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8767.85	0.002	0.500	0.004
370	11.03	11.02	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8796.69	0.002	0.500	0.004
371	11.02	11.01	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8825.54	0.002	0.500	0.004
372	11.01	11.00	0.36792	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8854.38	0.002	0.500	0.004
TOT						0.29			9108.00	2530.00					
AVG					0.0040		3.60	25.30			91.08				
CUM						7.90									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
363	11.090	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
364	11.080	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
365	11.070	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
366	11.060	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
367	11.050	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
368	11.040	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
369	11.030	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
370	11.020	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
371	11.010	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
372	11.000	8.56	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.05	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.19	0.05	0.05	0.00	0.00	0.00	0.00	3.00			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
363	11.090	23.12	0.01	6.84	63.59	3.49	9.91	0.00	9.91	0.00	3.58	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
364	11.080	23.12	0.01	6.88	63.75	3.49	9.87	0.00	9.87	0.00	3.56	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
365	11.070	23.12	0.01	6.93	63.92	3.48	9.83	0.00	9.83	0.00	3.53	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
366	11.060	23.12	0.01	6.98	64.10	3.47	9.79	0.00	9.79	0.00	3.50	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
367	11.050	23.12	0.01	7.04	64.30	3.46	9.74	0.00	9.74	0.00	3.47	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
368	11.040	23.12	0.01	7.10	64.52	3.45	9.70	0.00	9.70	0.00	3.44	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
369	11.030	23.12	0.01	7.16	64.76	3.44	9.65	0.00	9.65	0.00	3.41	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
370	11.020	23.12	0.01	7.23	65.01	3.43	9.60	0.00	9.60	0.00	3.37	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
371	11.010	23.12	0.01	7.30	65.29	3.42	9.56	0.00	9.56	0.00	3.33	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00
372	11.000	23.12	0.01	7.39	65.58	3.41	9.50	0.00	9.50	0.00	3.29	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 19 Hwy 434/190 Ditch BL to BL06 — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
395	UPR RCH	0.36792	23.12	0.01	7.39	65.58	3.41	9.50	0.00	9.50	0.00	3.29	0.00	0.00	0.00	10.60	0.00	0.00
395	TRIB	0.00032	23.12	0.06	12.62	141.26	7.74	13.18	0.00	13.18	0.00	8.85	0.00	0.00	0.00	10.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
395	11.00	10.99	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8883.22	0.002	0.500	0.004
396	10.99	10.98	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8912.06	0.002	0.500	0.004
397	10.98	10.97	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8940.90	0.002	0.500	0.004
398	10.97	10.96	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8969.74	0.002	0.500	0.004
399	10.96	10.95	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	8998.59	0.002	0.500	0.004
400	10.95	10.94	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	9027.43	0.002	0.500	0.004
401	10.94	10.93	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	9056.27	0.002	0.500	0.004
402	10.93	10.92	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	9085.11	0.002	0.500	0.004
403	10.92	10.91	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	9113.95	0.002	0.500	0.004
404	10.91	10.90	0.36824	2.5	0.00404	0.03	3.60	25.30	910.80	253.00	91.08	9142.79	0.002	0.500	0.004
TOT						0.29			9108.00	2530.00					
AVG					0.0040		3.60	25.30			91.08				
CUM						8.19									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
395	10.990	8.52	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.71	3.71	3.71	0.05	0.05	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
396	10.980	8.48	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.76	3.76	3.76	0.05	0.05	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
397	10.970	8.44	0.21	0.05	0.05	0.00	0.00	0.00	0.00	3.82	3.82	3.82	0.06	0.05	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
398	10.960	8.41	0.21	0.05	0.06	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.06	0.06	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
399	10.950	8.37	0.21	0.05	0.06	0.00	0.00	0.00	0.00	3.93	3.93	3.93	0.06	0.06	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
400	10.940	8.33	0.21	0.06	0.06	0.00	0.00	0.00	0.00	3.99	3.99	3.99	0.06	0.06	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
401	10.930	8.30	0.21	0.06	0.06	0.00	0.00	0.00	0.00	4.05	4.05	4.05	0.06	0.06	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
402	10.920	8.26	0.21	0.06	0.06	0.00	0.00	0.00	0.00	4.11	4.11	4.11	0.06	0.06	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
403	10.910	8.23	0.21	0.06	0.06	0.00	0.00	0.00	0.00	4.17	4.17	4.17	0.06	0.06	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
404	10.900	8.19	0.22	0.06	0.06	0.00	0.00	0.00	0.00	4.23	4.23	4.23	0.06	0.06	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.19	0.05	0.05	0.00	0.00	0.00	0.00	3.00			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
395	10.990	23.36	0.01	7.47	65.90	3.40	9.45	0.00	9.45	0.00	3.25	0.00	0.00	0.00	0.00	10.67	0.00	0.	0.00
396	10.980	23.59	0.01	7.57	66.24	3.38	9.40	0.00	9.40	0.00	3.21	0.00	0.00	0.00	0.00	10.74	0.00	0.	0.00
397	10.970	23.83	0.01	7.67	66.61	3.37	9.34	0.00	9.34	0.00	3.16	0.00	0.00	0.00	0.00	10.81	0.00	0.	0.00
398	10.960	24.06	0.02	7.78	67.01	3.35	9.28	0.00	9.28	0.00	3.11	0.00	0.00	0.00	0.00	10.88	0.00	0.	0.00
399	10.950	24.30	0.02	7.90	67.44	3.33	9.22	0.00	9.22	0.00	3.05	0.00	0.00	0.00	0.00	10.95	0.00	0.	0.00
400	10.940	24.53	0.02	8.03	67.91	3.31	9.15	0.00	9.15	0.00	3.00	0.00	0.00	0.00	0.00	11.02	0.00	0.	0.00
401	10.930	24.76	0.02	8.17	68.41	3.29	9.09	0.00	9.09	0.00	2.94	0.00	0.00	0.00	0.00	11.09	0.00	0.	0.00

402	10.920	25.00	0.02	8.32	68.95	3.27	9.02	0.00	9.02	0.00	2.87	0.00	0.00	0.00	0.00	11.16	0.00	0.	0.00
403	10.910	25.23	0.02	8.49	69.54	3.24	8.94	0.00	8.94	0.00	2.80	0.00	0.00	0.00	0.00	11.23	0.00	0.	0.00
404	10.900	25.47	0.02	8.66	70.18	3.21	8.87	0.00	8.87	0.00	2.72	0.00	0.00	0.00	0.00	11.30	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 20 BL06 to confluence with BBB CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
405	UPR RCH	0.36824	25.47	0.02	8.66	70.18	3.21	8.87	0.00	8.87	0.00	2.72	0.00	0.00	0.00	11.30	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
405	10.90	10.80	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	9814.63	0.002	2.000	0.003
406	10.80	10.70	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	10486.47	0.002	2.000	0.003
407	10.70	10.60	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	11158.31	0.002	2.000	0.003
408	10.60	10.50	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	11830.15	0.002	2.000	0.003
409	10.50	10.40	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	12501.99	0.002	2.000	0.003
410	10.40	10.30	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	13173.83	0.002	2.000	0.003
411	10.30	10.20	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	13845.67	0.002	2.000	0.003
412	10.20	10.10	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	14517.51	0.002	2.000	0.003
413	10.10	10.00	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	15189.35	0.002	2.000	0.003
414	10.00	9.90	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	15861.19	0.003	2.000	0.003
415	9.90	9.80	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	16533.03	0.003	2.000	0.003
416	9.80	9.70	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	17204.87	0.003	2.000	0.003
417	9.70	9.60	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	17876.71	0.003	2.000	0.003
418	9.60	9.50	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	18548.55	0.003	2.000	0.003
419	9.50	9.40	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	19220.39	0.003	2.000	0.004
420	9.40	9.30	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	19892.23	0.003	2.000	0.004
421	9.30	9.20	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	20564.07	0.003	2.000	0.004
422	9.20	9.10	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	21235.91	0.003	2.000	0.004
423	9.10	9.00	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	21907.75	0.003	2.000	0.004
424	9.00	8.90	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	22579.59	0.004	2.000	0.004
425	8.90	8.80	0.36824	2.5	0.00264	0.44	3.15	44.20	13923.00	4420.00	139.23	23251.43	0.004	2.000	0.004
TOT						9.19			292383.03	92820.00					
AVG					0.0026		3.15	44.20			139.23				
CUM						17.38									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
405	10.800	8.19	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.94	4.94	4.94	0.10	0.06	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
406	10.700	8.19	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.95	4.95	4.95	0.10	0.06	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
407	10.600	8.18	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.10	0.06	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
408	10.500	8.18	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.10	0.06	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
409	10.400	8.18	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.97	4.97	4.97	0.10	0.06	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
410	10.300	8.17	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.97	4.97	4.97	0.10	0.06	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
411	10.200	8.17	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.98	4.98	4.98	0.10	0.06	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
412	10.100	8.17	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.98	4.98	4.98	0.10	0.06	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
413	10.000	8.17	0.25	0.05	0.06	0.00	0.00	0.00	0.00	4.99	4.99	4.99	0.10	0.06	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
414	9.900	8.16	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.00	5.00	5.00	0.11	0.06	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
415	9.800	8.16	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.00	5.00	5.00	0.11	0.06	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
416	9.700	8.16	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.11	0.06	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
417	9.600	8.16	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.01	5.01	5.01	0.11	0.06	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
418	9.500	8.15	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.02	5.02	5.02	0.11	0.06	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
419	9.400	8.15	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.02	5.02	5.02	0.11	0.06	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
420	9.300	8.15	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.11	0.06	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
421	9.200	8.14	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.04	5.04	5.04	0.11	0.06	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
422	9.100	8.14	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.04	5.04	5.04	0.11	0.06	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
423	9.000	8.14	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.05	5.05	5.05	0.11	0.06	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
424	8.900	8.14	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.05	5.05	5.05	0.11	0.06	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
425	8.800	8.13	0.25	0.05	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.11	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.22	0.04	0.05	0.00	0.00	0.00	0.00	3.50			0.09	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
405	10.800	25.49	0.02	8.85	70.84	3.19	8.79	0.00	8.79	0.00	2.65	0.00	0.00	0.00	0.00	11.72	0.00	0.	0.00
406	10.700	25.51	0.02	9.18	72.06	3.16	8.67	0.00	8.67	0.00	2.53	0.00	0.00	0.00	0.00	12.15	0.00	0.	0.00
407	10.600	25.52	0.02	9.56	73.43	3.13	8.56	0.00	8.56	0.00	2.42	0.00	0.00	0.00	0.00	12.57	0.00	0.	0.00
408	10.500	25.54	0.02	10.00	74.98	3.12	8.47	0.00	8.47	0.00	2.32	0.00	0.00	0.00	0.00	13.00	0.00	0.	0.00
409	10.400	25.56	0.02	10.48	76.74	3.12	8.38	0.00	8.38	0.00	2.22	0.00	0.00	0.00	0.00	13.42	0.00	0.	0.00
410	10.300	25.58	0.02	11.04	78.73	3.13	8.31	0.00	8.31	0.00	2.14	0.00	0.00	0.00	0.00	13.84	0.00	0.	0.00
411	10.200	25.60	0.02	11.66	80.98	3.14	8.25	0.00	8.25	0.00	2.06	0.00	0.00	0.00	0.00	14.27	0.00	0.	0.00
412	10.100	25.61	0.02	12.37	83.53	3.16	8.20	0.00	8.20	0.00	1.99	0.00	0.00	0.00	0.00	14.69	0.00	0.	0.00
413	10.000	25.63	0.02	13.18	86.42	3.18	8.18	0.00	8.18	0.00	1.94	0.00	0.00	0.00	0.00	15.11	0.00	0.	0.00
414	9.900	25.65	0.03	14.08	89.70	3.21	8.17	0.00	8.17	0.00	1.89	0.00	0.00	0.00	0.00	15.54	0.00	0.	0.00
415	9.800	25.67	0.03	15.11	93.40	3.24	8.18	0.00	8.18	0.00	1.85	0.00	0.00	0.00	0.00	15.96	0.00	0.	0.00
416	9.700	25.69	0.03	16.28	97.59	3.27	8.22	0.00	8.22	0.00	1.83	0.00	0.00	0.00	0.00	16.39	0.00	0.	0.00
417	9.600	25.71	0.03	17.60	102.34	3.30	8.28	0.00	8.28	0.00	1.82	0.00	0.00	0.00	0.00	16.81	0.00	0.	0.00
418	9.500	25.72	0.04	19.09	107.72	3.33	8.38	0.00	8.38	0.00	1.83	0.00	0.00	0.00	0.00	17.23	0.00	0.	0.00
419	9.400	25.74	0.04	20.78	113.81	3.36	8.51	0.00	8.51	0.00	1.86	0.00	0.00	0.00	0.00	17.66	0.00	0.	0.00
420	9.300	25.76	0.04	22.70	120.70	3.40	8.68	0.00	8.68	0.00	1.91	0.00	0.00	0.00	0.00	18.08	0.00	0.	0.00
421	9.200	25.78	0.05	24.87	128.50	3.43	8.91	0.00	8.91	0.00	1.98	0.00	0.00	0.00	0.00	18.50	0.00	0.	0.00
422	9.100	25.80	0.05	27.32	137.34	3.46	9.19	0.00	9.19	0.00	2.08	0.00	0.00	0.00	0.00	18.93	0.00	0.	0.00
423	9.000	25.81	0.06	30.10	147.35	3.48	9.54	0.00	9.54	0.00	2.21	0.00	0.00	0.00	0.00	19.35	0.00	0.	0.00
424	8.900	25.83	0.06	33.25	158.67	3.51	9.96	0.00	9.96	0.00	2.38	0.00	0.00	0.00	0.00	19.78	0.00	0.	0.00
425	8.800	25.85	0.07	36.81	171.50	3.54	10.48	0.00	10.48	0.00	2.60	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 32 Big Branch Bayou to BL07 — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
616	UPR RCH	0.36824	25.85	0.07	36.81	171.50	3.54	10.48	0.00	10.48	0.00	2.60	0.00	0.00	0.00	20.20	0.00	0.00
616	TRIB	0.16292	25.85	0.07	37.91	176.58	3.23	11.55	0.00	11.55	0.00	3.15	0.00	0.00	0.00	20.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
616	8.80	8.79	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	30400.75	0.003	3.000	0.004
617	8.79	8.78	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	30525.85	0.003	3.000	0.004
618	8.78	8.77	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	30650.94	0.003	3.000	0.004
619	8.77	8.76	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	30776.04	0.003	3.000	0.004
620	8.76	8.75	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	30901.13	0.003	3.000	0.004
621	8.75	8.74	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	31026.23	0.003	3.000	0.004
622	8.74	8.73	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	31151.33	0.003	3.000	0.004
623	8.73	8.72	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	31276.42	0.003	3.000	0.004
624	8.72	8.71	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	31401.52	0.003	3.000	0.004
625	8.71	8.70	0.53116	2.7	0.00252	0.05	2.56	82.30	2106.88	823.00	210.69	31526.61	0.003	3.000	0.004
TOT						0.46			21068.80	8230.00					
AVG					0.0025		2.56	82.30			210.69				
CUM						17.84									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
616	8.790	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
617	8.780	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
618	8.770	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
619	8.760	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
620	8.750	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
621	8.740	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
622	8.730	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
623	8.720	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
624	8.710	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
625	8.700	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	5.06	5.06	5.06	0.16	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.27	0.05	0.05	0.00	0.00	0.00	0.00	3.50			0.13	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
616	8.790	25.85	0.07	38.80	178.66	3.56	10.78	0.00	10.78	0.00	2.74	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
617	8.780	25.85	0.07	39.06	179.50	3.59	10.75	0.00	10.75	0.00	2.72	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
618	8.770	25.85	0.07	39.32	180.35	3.61	10.72	0.00	10.72	0.00	2.70	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
619	8.760	25.85	0.07	39.58	181.21	3.64	10.69	0.00	10.69	0.00	2.68	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
620	8.750	25.85	0.07	39.85	182.08	3.67	10.66	0.00	10.66	0.00	2.66	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
621	8.740	25.85	0.07	40.11	182.95	3.70	10.64	0.00	10.64	0.00	2.64	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
622	8.730	25.85	0.07	40.38	183.83	3.73	10.61	0.00	10.61	0.00	2.63	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
623	8.720	25.85	0.07	40.66	184.71	3.76	10.58	0.00	10.58	0.00	2.61	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
624	8.710	25.85	0.07	40.93	185.61	3.79	10.55	0.00	10.55	0.00	2.59	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00
625	8.700	25.85	0.08	41.21	186.51	3.82	10.52	0.00	10.52	0.00	2.57	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 33 BL07to confluence w/CypressBayou CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
626	UPR RCH	0.53116	25.85	0.08	41.21	186.51	3.82	10.52	0.00	10.52	0.00	2.57	0.00	0.00	0.00	20.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
626	8.70	8.60	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	32777.57	0.003	4.000	0.004
627	8.60	8.50	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	34028.54	0.004	4.000	0.004
628	8.50	8.40	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	35279.50	0.004	4.000	0.004
629	8.40	8.30	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	36530.46	0.004	4.000	0.004
630	8.30	8.20	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	37781.42	0.004	4.000	0.004
631	8.20	8.10	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	39032.38	0.004	4.000	0.004
632	8.10	8.00	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	40283.34	0.004	4.000	0.005
633	8.00	7.90	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	41534.30	0.004	4.000	0.005
634	7.90	7.80	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	42785.26	0.005	4.000	0.005
635	7.80	7.70	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	44036.22	0.005	4.000	0.005
636	7.70	7.60	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	45287.18	0.005	4.000	0.005
637	7.60	7.50	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	46538.14	0.005	4.000	0.005
638	7.50	7.40	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	47789.11	0.005	4.000	0.005
639	7.40	7.30	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	49040.07	0.005	4.000	0.005
640	7.30	7.20	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	50291.03	0.005	4.000	0.006
641	7.20	7.10	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	51541.99	0.005	4.000	0.006
642	7.10	7.00	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	52792.95	0.006	4.000	0.006
643	7.00	6.90	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	54043.91	0.006	4.000	0.006
644	6.90	6.80	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	55294.87	0.006	4.000	0.006
645	6.80	6.70	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	56545.83	0.006	4.000	0.006
646	6.70	6.60	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	57796.79	0.006	4.000	0.006
647	6.60	6.50	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	59047.75	0.006	4.000	0.006
648	6.50	6.40	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	60298.71	0.006	4.000	0.007
649	6.40	6.30	0.53116	2.7	0.00252	0.46	2.56	82.30	21068.80	8230.00	210.69	61549.68	0.006	4.000	0.007
TOT						11.02			505651.31	197520.00					
AVG					0.0025		2.56	82.30			210.69				
CUM						28.86									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
626	8.600	8.13	0.31	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.16	0.06	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
627	8.500	8.14	0.31	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.17	0.06	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
628	8.400	8.14	0.31	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.17	0.06	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
629	8.300	8.14	0.31	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.17	0.06	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
630	8.200	8.14	0.31	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.17	0.06	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
631	8.100	8.14	0.31	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.17	0.06	0.00	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
632	8.000	8.15	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.17	0.06	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
633	7.900	8.15	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
634	7.800	8.15	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
635	7.700	8.15	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
636	7.600	8.15	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
637	7.500	8.16	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
638	7.400	8.16	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00

639	7.300	8.16	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
640	7.200	8.16	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.18	0.06	0.00	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
641	7.100	8.16	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
642	7.000	8.16	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00
643	6.900	8.17	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
644	6.800	8.17	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
645	6.700	8.17	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
646	6.600	8.17	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
647	6.500	8.17	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.18	0.06	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
648	6.400	8.17	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.18	0.06	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
649	6.300	8.18	0.30	0.06	0.06	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.18	0.06	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.27	0.05	0.05	0.00	0.00	0.00	0.00	1.00			0.13	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
626	8.600	25.84	0.08	42.38	190.35	3.95	10.40	0.00	10.40	0.00	2.49	0.00	0.00	0.00	0.00	20.08	0.00	0.	0.00
627	8.500	25.82	0.08	44.55	197.41	4.16	10.21	0.00	10.21	0.00	2.37	0.00	0.00	0.00	0.00	19.95	0.00	0.	0.00
628	8.400	25.81	0.09	46.85	204.91	4.36	10.03	0.00	10.03	0.00	2.25	0.00	0.00	0.00	0.00	19.83	0.00	0.	0.00
629	8.300	25.79	0.09	49.29	212.89	4.55	9.86	0.00	9.86	0.00	2.14	0.00	0.00	0.00	0.00	19.70	0.00	0.	0.00
630	8.200	25.77	0.10	51.89	221.37	4.72	9.71	0.00	9.71	0.00	2.04	0.00	0.00	0.00	0.00	19.58	0.00	0.	0.00
631	8.100	25.76	0.10	54.66	230.39	4.89	9.56	0.00	9.56	0.00	1.94	0.00	0.00	0.00	0.00	19.45	0.00	0.	0.00
632	8.000	25.75	0.11	57.60	239.97	5.04	9.43	0.00	9.43	0.00	1.85	0.00	0.00	0.00	0.00	19.33	0.00	0.	0.00
633	7.900	25.73	0.11	60.72	250.16	5.17	9.32	0.00	9.32	0.00	1.77	0.00	0.00	0.00	0.00	19.20	0.00	0.	0.00
634	7.800	25.72	0.12	64.04	260.99	5.30	9.21	0.00	9.21	0.00	1.69	0.00	0.00	0.00	0.00	19.08	0.00	0.	0.00
635	7.700	25.70	0.13	67.57	272.51	5.42	9.12	0.00	9.12	0.00	1.62	0.00	0.00	0.00	0.00	18.95	0.00	0.	0.00
636	7.600	25.68	0.13	71.32	284.75	5.52	9.05	0.00	9.05	0.00	1.56	0.00	0.00	0.00	0.00	18.83	0.00	0.	0.00
637	7.500	25.67	0.14	75.31	297.76	5.61	8.99	0.00	8.99	0.00	1.50	0.00	0.00	0.00	0.00	18.70	0.00	0.	0.00
638	7.400	25.66	0.15	79.55	311.59	5.69	8.94	0.00	8.94	0.00	1.45	0.00	0.00	0.00	0.00	18.58	0.00	0.	0.00
639	7.300	25.64	0.16	84.06	326.29	5.76	8.91	0.00	8.91	0.00	1.41	0.00	0.00	0.00	0.00	18.45	0.00	0.	0.00
640	7.200	25.62	0.17	88.85	341.92	5.82	8.90	0.00	8.90	0.00	1.37	0.00	0.00	0.00	0.00	18.33	0.00	0.	0.00
641	7.100	25.61	0.18	93.95	358.53	5.86	8.91	0.00	8.91	0.00	1.34	0.00	0.00	0.00	0.00	18.20	0.00	0.	0.00
642	7.000	25.59	0.19	99.36	376.19	5.90	8.94	0.00	8.94	0.00	1.32	0.00	0.00	0.00	0.00	18.08	0.00	0.	0.00
643	6.900	25.58	0.20	105.12	394.96	5.92	8.98	0.00	8.98	0.00	1.31	0.00	0.00	0.00	0.00	17.95	0.00	0.	0.00
644	6.800	25.57	0.21	111.24	414.92	5.92	9.06	0.00	9.06	0.00	1.30	0.00	0.00	0.00	0.00	17.83	0.00	0.	0.00
645	6.700	25.55	0.22	117.74	436.13	5.92	9.15	0.00	9.15	0.00	1.30	0.00	0.00	0.00	0.00	17.70	0.00	0.	0.00
646	6.600	25.53	0.23	124.65	458.69	5.90	9.27	0.00	9.27	0.00	1.32	0.00	0.00	0.00	0.00	17.58	0.00	0.	0.00
647	6.500	25.52	0.25	132.01	482.66	5.86	9.42	0.00	9.42	0.00	1.34	0.00	0.00	0.00	0.00	17.45	0.00	0.	0.00
648	6.400	25.50	0.26	139.82	508.14	5.81	9.60	0.00	9.60	0.00	1.37	0.00	0.00	0.00	0.00	17.33	0.00	0.	0.00
649	6.300	25.49	0.28	148.12	535.23	5.74	9.82	0.00	9.82	0.00	1.41	0.00	0.00	0.00	0.00	17.20	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 39 Cypress Bayou to BL08 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
715	UPR RCH	0.53116	25.49	0.28	148.12	535.23	5.74	9.82	0.00	9.82	0.00	1.41	0.00	0.00	0.00	17.20	0.00	0.00
715	TRIB	0.21395	25.49	0.29	153.89	556.22	5.58	10.22	0.00	10.22	0.00	1.47	0.00	0.00	0.00	17.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
715	6.30	6.20	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	70529.42	0.007	5.000	0.007
716	6.20	6.10	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	71664.55	0.007	5.000	0.007
TOT						0.70			45256.08	14936.00					
AVG					0.0033		3.03	74.68			226.28				
CUM						29.56									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
715	6.200	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.09	0.06	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
716	6.100	8.17	0.26	0.07	0.06	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.09	0.06	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.23 0.05 0.05 0.00 0.00 0.00 0.00 1.00 0.06 0.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
715	6.200	25.49	0.29	155.66	559.82	5.67	10.03	0.00	10.03	0.00	1.46	0.00	0.00	0.00	0.00	17.20	0.00	0.	0.00
716	6.100	25.49	0.31	165.11	587.54	5.72	9.98	0.00	9.98	0.00	1.49	0.00	0.00	0.00	0.00	17.20	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 40 BL08 to BL09 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
717	UPR RCH	0.74511	25.49	0.31	165.11	587.54	5.72	9.98	0.00	9.98	0.00	1.49	0.00	0.00	0.00	17.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
717	6.10	6.00	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	72799.69	0.007	6.000	0.007
718	6.00	5.90	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	73934.82	0.007	6.000	0.008
719	5.90	5.80	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	75069.95	0.007	6.000	0.008
720	5.80	5.70	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	76205.09	0.007	6.000	0.008
721	5.70	5.60	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	77340.22	0.008	6.000	0.008
722	5.60	5.50	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	78475.35	0.008	6.000	0.008
723	5.50	5.40	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	79610.48	0.008	6.000	0.008
724	5.40	5.30	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	80745.62	0.008	6.000	0.008
725	5.30	5.20	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	81880.75	0.008	6.000	0.008
726	5.20	5.10	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	83015.88	0.008	6.000	0.008
727	5.10	5.00	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	84151.02	0.008	6.000	0.009
728	5.00	4.90	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	85286.15	0.008	6.000	0.009
729	4.90	4.80	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	86421.28	0.008	6.000	0.009
730	4.80	4.70	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	87556.41	0.009	6.000	0.009
731	4.70	4.60	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	88691.55	0.009	6.000	0.009
732	4.60	4.50	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	89826.68	0.009	6.000	0.009
733	4.50	4.40	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	90961.81	0.009	6.000	0.009
734	4.40	4.30	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	92096.95	0.009	6.000	0.009
735	4.30	4.20	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	93232.08	0.009	6.000	0.009
736	4.20	4.10	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	94367.21	0.009	6.000	0.010
737	4.10	4.00	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	95502.34	0.009	6.000	0.010
738	4.00	3.90	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	96637.48	0.009	6.000	0.010
739	3.90	3.80	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	97772.61	0.010	6.000	0.010
740	3.80	3.70	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	98907.74	0.010	6.000	0.010
741	3.70	3.60	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	100042.88	0.010	6.000	0.010
742	3.60	3.50	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	101178.01	0.010	6.000	0.010
743	3.50	3.40	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	102313.14	0.010	6.000	0.010
744	3.40	3.30	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	103448.27	0.010	6.000	0.010
745	3.30	3.20	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	104583.41	0.010	6.000	0.010
746	3.20	3.10	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	105718.54	0.010	6.000	0.011
747	3.10	3.00	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	106853.67	0.010	6.000	0.011
748	3.00	2.90	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	107988.80	0.011	6.000	0.011
749	2.90	2.80	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	109123.94	0.011	6.000	0.011
750	2.80	2.70	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	110259.07	0.011	6.000	0.011
751	2.70	2.60	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	111394.20	0.011	6.000	0.011
752	2.60	2.50	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	112529.34	0.011	6.000	0.011
753	2.50	2.40	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	113664.47	0.011	6.000	0.011
754	2.40	2.30	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	114799.60	0.011	6.000	0.011
755	2.30	2.20	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	115934.73	0.011	6.000	0.012
756	2.20	2.10	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	117069.87	0.011	6.000	0.012
757	2.10	2.00	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	118205.00	0.012	6.000	0.012
758	2.00	1.90	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	119340.13	0.012	6.000	0.012
759	1.90	1.80	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	120475.27	0.012	6.000	0.012
760	1.80	1.70	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	121610.40	0.012	6.000	0.012
761	1.70	1.60	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	122745.53	0.012	6.000	0.012
762	1.60	1.50	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	123880.66	0.012	6.000	0.012
763	1.50	1.40	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	125015.80	0.012	6.000	0.012
764	1.40	1.30	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	126150.93	0.012	6.000	0.013
765	1.30	1.20	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	127286.06	0.013	6.000	0.013
766	1.20	1.10	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	128421.20	0.013	6.000	0.013
767	1.10	1.00	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	129556.33	0.013	6.000	0.013
768	1.00	0.90	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	130691.46	0.013	6.000	0.013

769	0.90	0.80	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	131826.59	0.013	6.000	0.013
770	0.80	0.70	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	132961.73	0.013	6.000	0.013
771	0.70	0.60	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	134096.88	0.013	6.000	0.013
772	0.60	0.50	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	135232.02	0.013	6.000	0.013
773	0.50	0.40	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	136367.16	0.013	6.000	0.014
774	0.40	0.30	0.74511	2.2	0.00329	0.35	3.03	74.68	22628.04	7468.00	226.28	137502.30	0.014	6.000	0.014
TOT						20.39			1312426.25	433144.00					
AVG					0.0033		3.03	74.68			226.28				
CUM						49.95									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
717	6.000	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.09	0.06	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
718	5.900	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.09	0.06	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
719	5.800	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.09	0.06	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
720	5.700	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
721	5.600	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
722	5.500	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
723	5.400	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
724	5.300	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
725	5.200	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
726	5.100	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
727	5.000	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
728	4.900	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.09	0.06	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
729	4.800	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
730	4.700	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
731	4.600	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
732	4.500	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
733	4.400	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
734	4.300	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
735	4.200	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
736	4.100	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.09	0.06	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
737	4.000	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
738	3.900	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
739	3.800	8.18	0.26	0.07	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
740	3.700	8.18	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
741	3.600	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
742	3.500	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
743	3.400	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
744	3.300	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
745	3.200	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.09	0.06	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
746	3.100	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
747	3.000	8.17	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
748	2.900	8.16	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
749	2.800	8.16	0.26	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
750	2.700	8.16	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
751	2.600	8.16	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
752	2.500	8.15	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
753	2.400	8.15	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.09	0.06	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
754	2.300	8.15	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
755	2.200	8.14	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
756	2.100	8.14	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
757	2.000	8.13	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
758	1.900	8.13	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
759	1.800	8.12	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
760	1.700	8.12	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
761	1.600	8.11	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
762	1.500	8.11	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.09	0.06	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
763	1.400	8.10	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
764	1.300	8.09	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
765	1.200	8.09	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
766	1.100	8.08	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
767	1.000	8.07	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
768	0.900	8.06	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
769	0.800	8.05	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
770	0.700	8.04	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.09	0.06	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
771	0.600	8.03	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.09	0.06	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
772	0.500	8.02	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.09	0.06	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
773	0.400	8.01	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
774	0.300	8.00	0.25	0.06	0.06	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.09	0.06	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.23	0.05	0.05	0.00	0.00	0.00	0.00	1.50			0.06	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
717	6.000	25.48	0.32	174.26	614.41	5.75	9.96	0.00	9.96	0.00	1.53	0.00	0.00	0.00	0.00	17.11	0.00	0.	0.00
718	5.900	25.47	0.34	183.16	640.50	5.78	9.94	0.00	9.94	0.00	1.56	0.00	0.00	0.00	0.00	17.01	0.00	0.	0.00
719	5.800	25.46	0.35	192.54	668.03	5.81	9.92	0.00	9.92	0.00	1.60	0.00	0.00	0.00	0.00	16.92	0.00	0.	0.00
720	5.700	25.45	0.37	202.44	697.07	5.84	9.90	0.00	9.90	0.00	1.63	0.00	0.00	0.00	0.00	16.82	0.00	0.	0.00
721	5.600	25.45	0.39	212.88	727.71	5.86	9.88	0.00	9.88	0.00	1.66	0.00	0.00	0.00	0.00	16.73	0.00	0.	0.00
722	5.500	25.44	0.41	223.89	760.02	5.88	9.86	0.00	9.86	0.00	1.69	0.00	0.00	0.00	0.00	16.63	0.00	0.	0.00
723	5.400	25.43	0.43	235.51	794.11	5.90	9.84	0.00	9.84	0.00	1.72	0.00	0.00	0.00	0.00	16.54	0.00	0.	0.00
724	5.300	25.42	0.45	247.76	830.07	5.92	9.82	0.00	9.82	0.00	1.74	0.00	0.00	0.00	0.00	16.44	0.00	0.	0.00
725	5.200	25.41	0.47	260.69	868.01	5.93	9.80	0.00	9.80	0.00	1.77	0.00	0.00	0.00	0.00	16.35	0.00	0.	0.00
726	5.100	25.40	0.49	274.33	908.02	5.95	9.79	0.00	9.79	0.00	1.80	0.00	0.00	0.00	0.00	16.25	0.00	0.	0.00
727	5.000	25.39	0.52	288.71	950.24	5.96	9.77	0.00	9.77	0.00	1.82	0.00	0.00	0.00	0.00	16.16	0.00	0.	0.00
728	4.900	25.38	0.54	303.89	994.76	5.97	9.75	0.00	9.75	0.00	1.84	0.00	0.00	0.00	0.00	16.06	0.00	0.	0.00
729	4.800	25.37	0.57	319.90	1041.74	5.98	9.73	0.00	9.73	0.00	1.87	0.00	0.00	0.00	0.00	15.97	0.00	0.	0.00
730	4.700	25.36	0.60	336.78	1091.29	5.99	9.71	0.00	9.71	0.00	1.89	0.00	0.00	0.00	0.00	15.87	0.00	0.	0.00
731	4.600	25.36	0.63	354.59	1143.56	5.99	9.69	0.00	9.69	0.00	1.91	0.00	0.00	0.00	0.00	15.78	0.00	0.	0.00
732	4.500	25.35	0.66	373.39	1198.69	6.00	9.67	0.00	9.67	0.00	1.93	0.00	0.00	0.00	0.00	15.68	0.00	0.	0.00
733	4.400	25.34	0.69	393.21	1256.86	6.01	9.65	0.00	9.65	0.00	1.95	0.00	0.00	0.00	0.00	15.59	0.00	0.	0.00
734	4.300	25.33	0.73	414.12	1318.21	6.01	9.63	0.00	9.63	0.00	1.97	0.00	0.00	0.00	0.00	15.49	0.00	0.	0.00
735	4.200	25.32	0.77	436.17	1382.94	6.01	9.61	0.00	9.61	0.00	1.98	0.00	0.00	0.00	0.00	15.40	0.00	0.	0.00
736	4.100	25.31	0.81	459.44	1451.21	6.02	9.59	0.00	9.59	0.00	2.00	0.00	0.00	0.00	0.00	15.30	0.00	0.	0.00
737	4.000	25.30	0.85	483.99	1523.23	6.02	9.57	0.00	9.57	0.00	2.02	0.00	0.00	0.00	0.00	15.21	0.00	0.	0.00
738	3.900	25.29	0.89	509.88	1599.21	6.02	9.55	0.00	9.55	0.00	2.03	0.00	0.00	0.00	0.00	15.11	0.00	0.	0.00
739	3.800	25.28	0.94	537.19	1679.35	6.02	9.53	0.00	9.53	0.00	2.05	0.00	0.00	0.00	0.00	15.02	0.00	0.	0.00
740	3.700	25.27	0.99	566.00	1763.89	6.02	9.50	0.00	9.50	0.00	2.06	0.00	0.00	0.00	0.00	14.92	0.00	0.	0.00
741	3.600	25.27	1.04	596.39	1853.08	6.02	9.48	0.00	9.48	0.00	2.07	0.00	0.00	0.00	0.00	14.83	0.00	0.	0.00
742	3.500	25.26	1.09	628.45	1947.15	6.02	9.45	0.00	9.45	0.00	2.08	0.00	0.00	0.00	0.00	14.73	0.00	0.	0.00
743	3.400	25.25	1.15	662.27	2046.39	6.02	9.42	0.00	9.42	0.00	2.09	0.00	0.00	0.00	0.00	14.64	0.00	0.	0.00
744	3.300	25.24	1.21	697.95	2151.08	6.02	9.39	0.00	9.39	0.00	2.10	0.00	0.00	0.00	0.00	14.54	0.00	0.	0.00
745	3.200	25.23	1.27	735.58	2261.51	6.02	9.36	0.00	9.36	0.00	2.11	0.00	0.00	0.00	0.00	14.45	0.00	0.	0.00
746	3.100	25.22	1.34	775.28	2378.00	6.02	9.33	0.00	9.33	0.00	2.12	0.00	0.00	0.00	0.00	14.36	0.00	0.	0.00
747	3.000	25.21	1.41	817.16	2500.88	6.03	9.30	0.00	9.30	0.00	2.12	0.00	0.00	0.00	0.00	14.26	0.00	0.	0.00
748	2.900	25.20	1.49	861.34	2630.51	6.03	9.26	0.00	9.26	0.00	2.13	0.00	0.00	0.00	0.00	14.17	0.00	0.	0.00
749	2.800	25.19	1.57	907.94	2767.26	6.03	9.22	0.00	9.22	0.00	2.13	0.00	0.00	0.00	0.00	14.07	0.00	0.	0.00
750	2.700	25.19	1.65	957.10	2911.50	6.03	9.18	0.00	9.18	0.00	2.13	0.00	0.00	0.00	0.00	13.98	0.00	0.	0.00
751	2.600	25.18	1.74	1008.95	3063.67	6.04	9.13	0.00	9.13	0.00	2.13	0.00	0.00	0.00	0.00	13.88	0.00	0.	0.00
752	2.500	25.17	1.83	1063.66	3224.18	6.04	9.09	0.00	9.09	0.00	2.13	0.00	0.00	0.00	0.00	13.79	0.00	0.	0.00
753	2.400	25.16	1.93	1121.36	3393.50	6.05	9.04	0.00	9.04	0.00	2.13	0.00	0.00	0.00	0.00	13.69	0.00	0.	0.00
754	2.300	25.15	2.03	1182.23	3572.12	6.05	8.98	0.00	8.98	0.00	2.13	0.00	0.00	0.00	0.00	13.60	0.00	0.	0.00
755	2.200	25.14	2.14	1246.44	3760.54	6.06	8.92	0.00	8.92	0.00	2.12	0.00	0.00	0.00	0.00	13.50	0.00	0.	0.00
756	2.100	25.13	2.25	1314.18	3959.30	6.07	8.86	0.00	8.86	0.00	2.11	0.00	0.00	0.00	0.00	13.41	0.00	0.	0.00
757	2.000	25.12	2.38	1385.63	4168.96	6.09	8.79	0.00	8.79	0.00	2.10	0.00	0.00	0.00	0.00	13.31	0.00	0.	0.00
758	1.900	25.11	2.50	1461.00	4390.14	6.10	8.72	0.00	8.72	0.00	2.09	0.00	0.00	0.00	0.00	13.22	0.00	0.	0.00
759	1.800	25.10	2.64	1540.52	4623.45	6.12	8.64	0.00	8.64	0.00	2.08	0.00	0.00	0.00	0.00	13.12	0.00	0.	0.00
760	1.700	25.10	2.78	1624.39	4869.56	6.14	8.55	0.00	8.55	0.00	2.06	0.00	0.00	0.00	0.00	13.03	0.00	0.	0.00
761	1.600	25.09	2.93	1712.87	5129.19	6.16	8.46	0.00	8.46	0.00	2.05	0.00	0.00	0.00	0.00	12.93	0.00	0.	0.00
762	1.500	25.08	3.09	1806.20	5403.06	6.18	8.36	0.00	8.36	0.00	2.03	0.00	0.00	0.00	0.00	12.84	0.00	0.	0.00
763	1.400	25.07	3.25	1904.66	5691.96	6.21	8.25	0.00	8.25	0.00	2.00	0.00	0.00	0.00	0.00	12.74	0.00	0.	0.00
764	1.300	25.06	3.43	2008.51	5996.71	6.24	8.13	0.00	8.13	0.00	1.97	0.00	0.00	0.00	0.00	12.65	0.00	0.	0.00
765	1.200	25.05	3.62	2118.07	6318.19	6.27	8.01	0.00	8.01	0.00	1.94	0.00	0.00	0.00	0.00	12.55	0.00	0.	0.00
766	1.100	25.04	3.81	2233.64	6657.32	6.31	7.87	0.00	7.87	0.00	1.91	0.00	0.00	0.00	0.00	12.46	0.00	0.	0.00
767	1.000	25.03	4.02	2355.56	7015.05	6.36	7.72	0.00	7.72	0.00	1.87	0.00	0.00	0.00	0.00	12.36	0.00	0.	0.00
768	0.900	25.02	4.24	2484.16	7392.42	6.40	7.56	0.00	7.56	0.00	1.83	0.00	0.00	0.00	0.00	12.27	0.00	0.	0.00
769	0.800	25.01	4.47	2619.82	7790.50	6.46	7.39	0.00	7.39	0.00	1.78	0.00	0.00	0.00	0.00	12.17	0.00	0.	0.00
770	0.700	25.01	4.71	2762.93	8210.42	6.52	7.20	0.00	7.20	0.00	1.73	0.00	0.00	0.00	0.00	12.08	0.00	0.	0.00
771	0.600	25.00	4.96	2913.89	8653.40	6.58	7.00	0.00	7.00	0.00	1.67	0.00	0.00	0.00	0.00	11.98	0.00	0.	0.00
772	0.500	24.99	5.23	3073.14	9120.68	6.65	6.78	0.00	6.78	0.00	1.61	0.00	0.00	0.00	0.00	11.89	0.00	0.	0.00
773	0.400	24.98	5.52	3241.12	9613.60	6.73	6.54	0.00	6.54	0.00	1.54	0.00	0.00	0.00	0.00	11.79	0.00	0.	0.00
774	0.300	24.97	5.82	3418.33	10133.58	6.81	6.28	0.00	6.28	0.00	1.47	0.00	0.00	0.00	0.00	11.70	0.00	0.	0.00

FINAL REPORT BAYOU LACOMBE BAYOU LACOMBE WATERSHED MODEL
REACH NO. 41 BL09 to Lake Pontchartrain CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
775	UPR RCH	0.74511	24.97	5.82	3418.33	10133.58	6.81	6.28	0.00	6.28	0.00	1.47	0.00	0.00	0.00	11.70	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
775	0.30	0.20	0.74511	2.2	0.00417	0.28	1.80	99.36	17884.80	9936.00	178.85	139012.56	0.017	7.500	0.017
776	0.20	0.10	0.74511	2.2	0.00417	0.28	1.80	99.36	17884.80	9936.00	178.85	140522.83	0.017	7.500	0.018
777	0.10	0.00	0.74511	2.2	0.00417	0.28	1.80	99.36	17884.80	9936.00	178.85	142033.09	0.018	7.500	0.018

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 TOT                                          0.83                 53654.40   29808.00
 AVG                                  0.0042             1.80   99.36                        178.85
 CUM                                        50.78

 ********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************

 ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN    NH3   NH3  DENIT   PO4   ALG   MAC   COLI    NCM    NCM
 NO.     DIST  D.O.    RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
               mg/L    1/da   1/da  1/da   1/da   1/da  1/da   1/da     *     *     *    1/da  1/da   1/da     *    1/da     *    **    **    1/da   1/da   1/da

 775    0.200  7.98    0.43   0.08  0.06   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.14  0.06   0.00  0.00   0.00  0.00  0.66  0.00   0.00   0.00   0.00
 776    0.100  7.97    0.43   0.08  0.06   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.14  0.06   0.00  0.00   0.00  0.00  0.59  0.00   0.00   0.00   0.00
 777    0.000  7.95    0.43   0.08  0.06   0.00   0.00  0.00   0.00  0.00  0.00  0.00   0.14  0.06   0.00  0.00   0.00  0.00  0.52  0.00   0.00   0.00   0.00

 AVG 20 DEG C RATE      0.39   0.06  0.05   0.00   0.00  0.00   0.00  0.00                0.10  0.05   0.00  0.00   0.00  0.00                0.00   0.00   0.00

 *   g/m²/d             **   mg/L/day

 ************************************************* WATER QUALITY CONSTITUENT VALUES *************************************************

 ELEM  ENDING   TEMP  SALN chloride  conduct    DO   BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   TOTN   PHOS  CHL A   MACRO     COLI     NCM
 NO.     DIST  DEG C   PPT     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L    g/m³  #/100mL

 775    0.200  24.97  6.14  3606.39 10685.41   6.91   6.00   0.00   6.00   0.00   1.38   0.00   0.00   0.00   0.00  10.57    0.00       0.    0.00
 776    0.100  24.97  6.47  3806.04 11271.25   7.00   5.66   0.00   5.66   0.00   1.30   0.00   0.00   0.00   0.00   9.43    0.00       0.    0.00
 777    0.000  24.97  6.83  4016.78 11889.63   7.09   5.25   0.00   5.25   0.00   1.21   0.00   0.00   0.00   0.00   8.30    0.00       0.    0.00


STREAM SUMMARY                                                    BAYOU LACOMBE WATERSHED MODEL
BAYOU LACOMBE                                                     CALIBRATION

 TRAVEL TIME       =          50.78 DAYS

 MAXIMUM EFFLUENT  =           2.73 PERCENT

 FLOW              =   0.11000 TO    0.74511   m³/s
 DISPERSION        =   0.5000  TO    7.5000    m²/s
 VELOCITY          =   0.00252 TO    0.29859   m/s
 DEPTH             =   0.17    TO    3.60      m
 WIDTH             =   5.79    TO   99.36      m

 BOD DECAY         =    0.03   TO    0.08      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    0.00   TO    5.48      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =    0.21   TO    7.10      per day
 BOD SETTLING      =    0.05   TO    0.06      per day
 NBOD DECAY        =    0.00   TO    0.68      per day
 NBOD SETTLING     =    0.05   TO    0.06      per day

 TEMPERATURE       =   20.85   TO   25.85      deg C
 DISSOLVED OXYGEN  =    3.12   TO    8.29      mg/L


FINAL REPORT    Ditch #1 Hwy 36 BL                                BAYOU LACOMBE WATERSHED MODEL
REACH NO.  2    Hwy 36 Ditch BL                                   CALIBRATION

 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

   11  HDWTR     0.00028   20.85     0.01     5.60    51.60   5.00   2.20   0.00   2.20   0.00   1.00   0.00   0.00   0.00   0.00     0.00    0.00
   12  WSTLD     0.00018   30.60     0.37    57.90   719.70   2.00  69.00   0.00  69.00   0.00  64.50   0.00   0.00   0.00   0.00     0.00    0.00
   40  WSTLD     0.00011   30.60     0.37    57.90   719.70   2.00 103.50   0.00 103.50   0.00  64.50   0.00   0.00   0.00   0.00     0.00    0.00

 ************************************************** HYDRAULIC PARAMETER VALUES **************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
  NO.    DIST    DIST              EFF     VELO      TIME                                   AREA    AREA     PRISM    VELO              VELO
          km      km        m³/s            m/s      days       m       m        m³         m²      m²        m³     m/s      m²/s     m/s

   11    4.20    4.10    0.00028   0.0   0.00560      0.21    0.05    1.00      5.00     100.00    0.05      0.00   0.000     0.000   0.006
   12    4.10    4.00    0.00046  38.5   0.00911      0.13    0.05    1.00      5.00     100.00    0.05      0.00   0.000     0.000   0.009
   13    4.00    3.90    0.00046  38.5   0.00911      0.13    0.05    1.00      5.00     100.00    0.05      0.00   0.000     0.000   0.009
   14    3.90    3.80    0.00046  38.5   0.00911      0.13    0.05    1.00      5.00     100.00    0.05      0.00   0.000     0.000   0.009
   15    3.80    3.70    0.00046  38.5   0.00911      0.13    0.05    1.00      5.00     100.00    0.05      0.00   0.000     0.000   0.009
   16    3.70    3.60    0.00046  38.5   0.00911      0.13    0.05    1.00      5.00     100.00    0.05      0.00   0.000     0.000   0.009
   17    3.60    3.50    0.00046  38.5   0.00911      0.13    0.05    1.00      5.00     100.00    0.05      0.00   0.000     0.000   0.009
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18	3.50	3.40	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
19	3.40	3.30	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
20	3.30	3.20	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
21	3.20	3.10	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
22	3.10	3.00	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
23	3.00	2.90	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
24	2.90	2.80	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
25	2.80	2.70	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
26	2.70	2.60	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
27	2.60	2.50	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
28	2.50	2.40	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
29	2.40	2.30	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
30	2.30	2.20	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
31	2.20	2.10	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
32	2.10	2.00	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
33	2.00	1.90	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
34	1.90	1.80	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
35	1.80	1.70	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
36	1.70	1.60	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
37	1.60	1.50	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
38	1.50	1.40	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
39	1.40	1.30	0.00046	38.5	0.00911	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
40	1.30	1.20	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
41	1.20	1.10	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
42	1.10	1.00	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
43	1.00	0.90	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
44	0.90	0.80	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
45	0.80	0.70	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
46	0.70	0.60	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
47	0.60	0.50	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
48	0.50	0.40	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
49	0.40	0.30	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
50	0.30	0.20	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
51	0.20	0.10	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
52	0.10	0.00	0.00056	50.0	0.01121	0.10	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
TOT						5.11			210.00	4200.00					
AVG					0.0095		0.05	1.00			0.05				
CUM						5.11									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
11	4.100	8.94	15.13	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	4.000	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	3.900	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	3.800	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	3.700	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	3.600	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	3.500	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	3.400	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	3.300	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	3.200	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	3.100	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	3.000	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	2.900	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	2.800	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	2.700	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	2.600	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	2.500	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	2.400	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	2.300	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	2.200	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	2.100	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	2.000	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	1.900	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	1.800	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	1.700	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	1.600	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	1.500	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	1.400	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	1.300	8.93	16.15	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	1.200	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	1.100	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	1.000	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	0.900	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	0.800	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.700	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	0.600	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	0.500	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

48	0.400	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.300	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	0.200	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	0.100	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	0.000	8.93	16.76	0.08	0.05	0.00	0.00	0.00	0.00	0.53	0.53	0.53	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			16.04	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
11	4.100	20.85	0.01	5.60	51.60	7.45	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
12	4.000	20.85	0.15	25.74	308.83	7.19	27.49	0.00	27.49	0.00	25.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
13	3.900	20.85	0.15	25.74	308.83	7.80	27.07	0.00	27.07	0.00	24.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
14	3.800	20.85	0.15	25.74	308.83	8.00	26.65	0.00	26.65	0.00	24.69	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
15	3.700	20.85	0.15	25.74	308.83	8.06	26.24	0.00	26.24	0.00	24.45	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
16	3.600	20.85	0.15	25.74	308.83	8.09	25.84	0.00	25.84	0.00	24.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
17	3.500	20.85	0.15	25.74	308.83	8.10	25.44	0.00	25.44	0.00	23.96	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
18	3.400	20.85	0.15	25.74	308.83	8.10	25.05	0.00	25.05	0.00	23.72	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
19	3.300	20.85	0.15	25.74	308.83	8.11	24.67	0.00	24.67	0.00	23.48	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
20	3.200	20.85	0.15	25.74	308.83	8.11	24.29	0.00	24.29	0.00	23.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
21	3.100	20.85	0.15	25.74	308.83	8.11	23.92	0.00	23.92	0.00	23.02	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
22	3.000	20.85	0.15	25.74	308.83	8.11	23.56	0.00	23.56	0.00	22.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
23	2.900	20.85	0.15	25.74	308.83	8.11	23.20	0.00	23.20	0.00	22.56	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
24	2.800	20.85	0.15	25.74	308.83	8.12	22.85	0.00	22.85	0.00	22.34	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
25	2.700	20.85	0.15	25.74	308.83	8.12	22.50	0.00	22.50	0.00	22.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
26	2.600	20.85	0.15	25.74	308.83	8.12	22.16	0.00	22.16	0.00	21.89	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
27	2.500	20.85	0.15	25.74	308.83	8.12	21.83	0.00	21.83	0.00	21.68	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
28	2.400	20.85	0.15	25.74	308.83	8.13	21.50	0.00	21.50	0.00	21.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
29	2.300	20.85	0.15	25.74	308.83	8.13	21.18	0.00	21.18	0.00	21.25	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
30	2.200	20.85	0.15	25.74	308.83	8.13	20.86	0.00	20.86	0.00	21.04	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
31	2.100	20.85	0.15	25.74	308.83	8.13	20.55	0.00	20.55	0.00	20.83	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
32	2.000	20.85	0.15	25.74	308.83	8.13	20.24	0.00	20.24	0.00	20.62	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
33	1.900	20.85	0.15	25.74	308.83	8.14	19.94	0.00	19.94	0.00	20.42	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
34	1.800	20.85	0.15	25.74	308.83	8.14	19.64	0.00	19.64	0.00	20.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
35	1.700	20.85	0.15	25.74	308.83	8.14	19.35	0.00	19.35	0.00	20.01	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
36	1.600	20.85	0.15	25.74	308.83	8.14	19.06	0.00	19.06	0.00	19.82	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
37	1.500	20.85	0.15	25.74	308.83	8.14	18.78	0.00	18.78	0.00	19.62	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
38	1.400	20.85	0.15	25.74	308.83	8.15	18.50	0.00	18.50	0.00	19.43	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
39	1.300	20.85	0.15	25.74	308.83	8.15	18.23	0.00	18.23	0.00	19.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
40	1.200	20.85	0.19	31.77	385.95	7.68	33.80	0.00	33.80	0.00	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
41	1.100	20.85	0.19	31.77	385.95	7.94	33.37	0.00	33.37	0.00	27.28	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
42	1.000	20.85	0.19	31.77	385.95	8.03	32.94	0.00	32.94	0.00	27.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
43	0.900	20.85	0.19	31.77	385.95	8.07	32.52	0.00	32.52	0.00	26.84	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
44	0.800	20.85	0.19	31.77	385.95	8.08	32.11	0.00	32.11	0.00	26.62	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
45	0.700	20.85	0.19	31.77	385.95	8.09	31.70	0.00	31.70	0.00	26.40	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
46	0.600	20.85	0.19	31.77	385.95	8.09	31.30	0.00	31.30	0.00	26.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
47	0.500	20.85	0.19	31.77	385.95	8.10	30.90	0.00	30.90	0.00	25.97	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
48	0.400	20.85	0.19	31.77	385.95	8.10	30.51	0.00	30.51	0.00	25.76	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
49	0.300	20.85	0.19	31.77	385.95	8.10	30.12	0.00	30.12	0.00	25.55	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
50	0.200	20.85	0.19	31.77	385.95	8.10	29.74	0.00	29.74	0.00	25.34	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
51	0.100	20.85	0.19	31.77	385.95	8.11	29.36	0.00	29.36	0.00	25.13	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
52	0.000	20.85	0.19	31.77	385.95	8.11	28.99	0.00	28.99	0.00	24.93	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch #1 Hwy 36 BL

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME	=	5.11	DAYS		
MAXIMUM EFFLUENT	=	50.04	PERCENT		
FLOW	=	0.00028	TO	0.00056	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.01121	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.08	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.53	TO	0.53	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.13	TO	16.76	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	20.85	TO	20.85	deg C
DISSOLVED OXYGEN	=	7.19	TO	8.15	mg/L

FINAL REPORT Ditch #2 SNG ditch BAYOU LACOMBE WATERSHED MODEL
REACH NO. 6 SNG Ditch CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
168	HDWTR	0.00028	20.85	0.01	5.60	51.60	5.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
169	WSTLD	0.00011	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
168	2.10	2.00	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
169	2.00	1.90	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
170	1.90	1.80	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
171	1.80	1.70	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
172	1.70	1.60	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
173	1.60	1.50	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
174	1.50	1.40	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
175	1.40	1.30	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
176	1.30	1.20	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
177	1.20	1.10	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
178	1.10	1.00	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
179	1.00	0.90	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
180	0.90	0.80	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
181	0.80	0.70	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
182	0.70	0.60	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
183	0.60	0.50	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
184	0.50	0.40	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
185	0.40	0.30	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
186	0.30	0.20	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
187	0.20	0.10	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
188	0.10	0.00	0.00039	28.1	0.00779	0.15	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.008
TOT						3.18			105.00	2100.00					
AVG					0.0076		0.05	1.00			0.05				
CUM						3.18									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
168	2.000	8.74	15.48	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169	1.900	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	1.800	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	1.700	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1.600	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173	1.500	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	1.400	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	1.300	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	1.200	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	1.100	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	1.000	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179	0.900	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.800	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
181	0.700	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
182	0.600	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183	0.500	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184	0.400	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
185	0.300	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
186	0.200	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
187	0.100	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188	0.000	8.73	16.13	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			15.48	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM	ENDING	TEMP	SALN	chloride	conduct	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM

NO.	DIST	DEG C	PPT	mg/L	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL	
168	2.000	22.03	0.01	5.60	51.60	7.28	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
169	1.900	22.03	0.11	20.30	239.42	7.23	30.10	0.00	30.10	0.00	18.63	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
170	1.800	22.03	0.11	20.30	239.42	7.65	29.53	0.00	29.53	0.00	18.40	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
171	1.700	22.03	0.11	20.30	239.42	7.78	28.97	0.00	28.97	0.00	18.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
172	1.600	22.03	0.11	20.30	239.42	7.82	28.42	0.00	28.42	0.00	17.96	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
173	1.500	22.03	0.11	20.30	239.42	7.83	27.88	0.00	27.88	0.00	17.74	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
174	1.400	22.03	0.11	20.30	239.42	7.84	27.36	0.00	27.36	0.00	17.53	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
175	1.300	22.03	0.11	20.30	239.42	7.84	26.85	0.00	26.85	0.00	17.32	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
176	1.200	22.03	0.11	20.30	239.42	7.85	26.34	0.00	26.34	0.00	17.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
177	1.100	22.03	0.11	20.30	239.42	7.85	25.85	0.00	25.85	0.00	16.91	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
178	1.000	22.03	0.11	20.30	239.42	7.85	25.36	0.00	25.36	0.00	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
179	0.900	22.03	0.11	20.30	239.42	7.86	24.89	0.00	24.89	0.00	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
180	0.800	22.03	0.11	20.30	239.42	7.86	24.43	0.00	24.43	0.00	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
181	0.700	22.03	0.11	20.30	239.42	7.86	23.97	0.00	23.97	0.00	16.11	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
182	0.600	22.03	0.11	20.30	239.42	7.87	23.53	0.00	23.53	0.00	15.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
183	0.500	22.03	0.11	20.30	239.42	7.87	23.09	0.00	23.09	0.00	15.73	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
184	0.400	22.03	0.11	20.30	239.42	7.87	22.66	0.00	22.66	0.00	15.54	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
185	0.300	22.03	0.11	20.30	239.42	7.87	22.25	0.00	22.25	0.00	15.35	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
186	0.200	22.03	0.11	20.30	239.42	7.88	21.84	0.00	21.84	0.00	15.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
187	0.100	22.03	0.11	20.30	239.42	7.88	21.43	0.00	21.43	0.00	14.99	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
188	0.000	22.03	0.11	20.30	239.42	7.88	21.04	0.00	21.04	0.00	14.81	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch #2 SNG ditch

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME	=	3.18	DAYS		
MAXIMUM EFFLUENT	=	28.11	PERCENT		
FLOW	=	0.00028	TO	0.00039	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.00779	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.57	TO	0.57	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.48	TO	16.13	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	22.03	TO	22.03	deg C
DISSOLVED OXYGEN	=	7.23	TO	7.88	mg/L

FINAL REPORT Ditch#3Hwy434/I-12BL
REACH NO. 8 Hwy 434/I-12 Ditch BL

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
192	HDWTR	0.00028	20.85	0.01	5.60	51.60	5.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
196	WSTLD	0.00004	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
206	WSTLD	0.00022	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
208	WSTLD	0.00046	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
192	3.00	2.90	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
193	2.90	2.80	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
194	2.80	2.70	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
195	2.70	2.60	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
196	2.60	2.50	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
197	2.50	2.40	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
198	2.40	2.30	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
199	2.30	2.20	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
200	2.20	2.10	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
201	2.10	2.00	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
202	2.00	1.90	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
203	1.90	1.80	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006

204	1.80	1.70	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
205	1.70	1.60	0.00032	13.5	0.00648	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
206	1.60	1.50	0.00055	48.8	0.01094	0.11	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
207	1.50	1.40	0.00055	48.8	0.01094	0.11	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.011
208	1.40	1.30	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
209	1.30	1.20	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
210	1.20	1.10	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
211	1.10	1.00	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
212	1.00	0.90	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
213	0.90	0.80	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
214	0.80	0.70	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
215	0.70	0.60	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
216	0.60	0.50	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
217	0.50	0.40	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
218	0.40	0.30	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
219	0.30	0.20	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
220	0.20	0.10	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
221	0.10	0.00	0.00100	72.1	0.02010	0.06	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.020
TOT						3.63			150.00	3000.00					
AVG					0.0096		0.05	1.00			0.05				
CUM						3.63									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
192	2.900	8.74	15.48	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
193	2.800	8.74	15.48	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
194	2.700	8.74	15.48	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195	2.600	8.74	15.48	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
196	2.500	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	2.400	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
198	2.300	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199	2.200	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	2.100	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
201	2.000	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202	1.900	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
203	1.800	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
204	1.700	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
205	1.600	8.74	15.74	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
206	1.500	8.73	17.07	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
207	1.400	8.73	17.07	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	1.300	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
209	1.200	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210	1.100	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
211	1.000	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
212	0.900	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
213	0.800	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
214	0.700	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
215	0.600	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
216	0.500	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217	0.400	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
218	0.300	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
219	0.200	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220	0.100	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221	0.000	8.72	19.79	0.09	0.05	0.00	0.00	0.00	0.00	0.57	0.57	0.57	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			17.00	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
192	2.900	22.03	0.01	5.60	51.60	7.28	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
193	2.800	22.03	0.01	5.60	51.60	7.82	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
194	2.700	22.03	0.01	5.60	51.60	7.95	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
195	2.600	22.03	0.01	5.60	51.60	7.98	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
196	2.500	22.03	0.06	12.67	141.97	7.71	15.57	0.00	15.57	0.00	9.46	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
197	2.400	22.03	0.06	12.67	141.97	7.86	15.24	0.00	15.24	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
198	2.300	22.03	0.06	12.67	141.97	7.90	14.92	0.00	14.92	0.00	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
199	2.200	22.03	0.06	12.67	141.97	7.91	14.61	0.00	14.61	0.00	9.08	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
200	2.100	22.03	0.06	12.67	141.97	7.91	14.30	0.00	14.30	0.00	8.95	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
201	2.000	22.03	0.06	12.67	141.97	7.92	14.01	0.00	14.01	0.00	8.83	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
202	1.900	22.03	0.06	12.67	141.97	7.92	13.72	0.00	13.72	0.00	8.71	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
203	1.800	22.03	0.06	12.67	141.97	7.92	13.44	0.00	13.44	0.00	8.59	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
204	1.700	22.03	0.06	12.67	141.97	7.92	13.16	0.00	13.16	0.00	8.48	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

205	1.600	22.03	0.06	12.67	141.97	7.92	12.89	0.00	12.89	0.00	8.36	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
206	1.500	22.03	0.19	31.12	377.59	6.95	49.15	0.00	49.15	0.00	30.98	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
207	1.400	22.03	0.19	31.12	377.59	7.47	48.46	0.00	48.46	0.00	30.71	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
208	1.300	22.03	0.27	43.33	533.56	6.49	57.38	0.00	57.38	0.00	45.89	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
209	1.200	22.03	0.27	43.33	533.56	7.20	56.94	0.00	56.94	0.00	45.67	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
210	1.100	22.03	0.27	43.33	533.56	7.53	56.50	0.00	56.50	0.00	45.45	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
211	1.000	22.03	0.27	43.33	533.56	7.69	56.06	0.00	56.06	0.00	45.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
212	0.900	22.03	0.27	43.33	533.56	7.76	55.63	0.00	55.63	0.00	45.01	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
213	0.800	22.03	0.27	43.33	533.56	7.80	55.20	0.00	55.20	0.00	44.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
214	0.700	22.03	0.27	43.33	533.56	7.81	54.78	0.00	54.78	0.00	44.57	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
215	0.600	22.03	0.27	43.33	533.56	7.82	54.36	0.00	54.36	0.00	44.36	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
216	0.500	22.03	0.27	43.33	533.56	7.83	53.94	0.00	53.94	0.00	44.14	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
217	0.400	22.03	0.27	43.33	533.56	7.83	53.52	0.00	53.52	0.00	43.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
218	0.300	22.03	0.27	43.33	533.56	7.84	53.11	0.00	53.11	0.00	43.71	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
219	0.200	22.03	0.27	43.33	533.56	7.84	52.70	0.00	52.70	0.00	43.50	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
220	0.100	22.03	0.27	43.33	533.56	7.84	52.30	0.00	52.30	0.00	43.29	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
221	0.000	22.03	0.27	43.33	533.56	7.84	51.90	0.00	51.90	0.00	43.08	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch#3Hwy434/I-12BL

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME = 3.63 DAYS

MAXIMUM EFFLUENT = 72.14 PERCENT

FLOW	=	0.00028	TO	0.00100	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.02010	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.57	TO	0.57	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.48	TO	19.79	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	22.03	TO	22.03	deg C
DISSOLVED OXYGEN	=	6.49	TO	7.98	mg/L

FINAL REPORT Ditch #4 Keller Barn
REACH NO. 11 Keller Barn Ditch

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
240	HDWTR	0.00028	20.85	0.01	5.60	51.60	5.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
241	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
240	0.90	0.80	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
241	0.80	0.70	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
242	0.70	0.60	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
243	0.60	0.50	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
244	0.50	0.40	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
245	0.40	0.30	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
246	0.30	0.20	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
247	0.20	0.10	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
248	0.10	0.00	0.00029	2.1	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
TOT						1.82			45.00	900.00					
AVG					0.0057		0.05	1.00			0.05				
CUM						1.82									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da

240	0.800	8.64	15.66	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
241	0.700	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
242	0.600	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
243	0.500	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
244	0.400	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
245	0.300	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
246	0.200	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247	0.100	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	0.000	8.64	15.70	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			14.91	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
240	0.800	22.64	0.01	5.60	51.60	7.19	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
241	0.700	22.64	0.02	6.72	65.84	7.67	3.58	0.00	3.58	0.00	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
242	0.600	22.64	0.02	6.72	65.84	7.81	3.54	0.00	3.54	0.00	2.31	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
243	0.500	22.64	0.02	6.72	65.84	7.85	3.50	0.00	3.50	0.00	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
244	0.400	22.64	0.02	6.72	65.84	7.86	3.47	0.00	3.47	0.00	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
245	0.300	22.64	0.02	6.72	65.84	7.86	3.43	0.00	3.43	0.00	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
246	0.200	22.64	0.02	6.72	65.84	7.86	3.39	0.00	3.39	0.00	2.22	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
247	0.100	22.64	0.02	6.72	65.84	7.86	3.36	0.00	3.36	0.00	2.19	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
248	0.000	22.64	0.02	6.72	65.84	7.86	3.33	0.00	3.33	0.00	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch #4 Keller Barn

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME	=	1.82	DAYS		
MAXIMUM EFFLUENT	=	2.13	PERCENT		
FLOW	=	0.00028	TO	0.00029	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.00572	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.59	TO	0.59	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.66	TO	15.70	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.04	TO	0.04	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	22.64	TO	22.64	deg C
DISSOLVED OXYGEN	=	7.19	TO	7.86	mg/L

FINAL REPORT Ditch#5 Beau Village
REACH NO. 13 Beau Village Ditch

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
276	HDWTR	0.00028	20.85	0.01	5.60	51.60	5.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
277	WSTLD	0.00105	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
276	3.00	2.90	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
277	2.90	2.80	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
278	2.80	2.70	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
279	2.70	2.60	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
280	2.60	2.50	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
281	2.50	2.40	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
282	2.40	2.30	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027

283	2.30	2.20	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
284	2.20	2.10	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
285	2.10	2.00	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
286	2.00	1.90	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
287	1.90	1.80	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
288	1.80	1.70	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
289	1.70	1.60	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
290	1.60	1.50	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
291	1.50	1.40	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
292	1.40	1.30	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
293	1.30	1.20	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
294	1.20	1.10	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
295	1.10	1.00	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
296	1.00	0.90	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
297	0.90	0.80	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
298	0.80	0.70	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
299	0.70	0.60	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
300	0.60	0.50	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
301	0.50	0.40	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
302	0.40	0.30	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
303	0.30	0.20	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
304	0.20	0.10	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
305	0.10	0.00	0.00133	79.0	0.02663	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.027
TOT						1.47			150.00	3000.00					
AVG					0.0237		0.05	1.00			0.05				
CUM						1.47									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
276	2.900	8.64	15.66	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
277	2.800	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
278	2.700	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
279	2.600	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
280	2.500	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
281	2.400	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
282	2.300	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
283	2.200	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
284	2.100	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285	2.000	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
286	1.900	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
287	1.800	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
288	1.700	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
289	1.600	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
290	1.500	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
291	1.400	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292	1.300	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293	1.200	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
294	1.100	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
295	1.000	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
296	0.900	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
297	0.800	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
298	0.700	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299	0.600	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	0.500	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
301	0.400	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
302	0.300	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
303	0.200	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
304	0.100	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
305	0.000	8.62	21.99	0.09	0.05	0.00	0.00	0.00	0.00	0.59	0.59	0.59	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			20.69	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
276	2.900	22.64	0.01	5.60	51.60	7.19	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
277	2.800	22.64	0.29	46.90	579.21	5.47	18.52	0.00	18.52	0.00	34.04	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
278	2.700	22.64	0.29	46.90	579.21	6.68	18.42	0.00	18.42	0.00	33.92	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
279	2.600	22.64	0.29	46.90	579.21	7.31	18.32	0.00	18.32	0.00	33.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
280	2.500	22.64	0.29	46.90	579.21	7.62	18.22	0.00	18.22	0.00	33.66	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
281	2.400	22.64	0.29	46.90	579.21	7.79	18.12	0.00	18.12	0.00	33.54	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
282	2.300	22.64	0.29	46.90	579.21	7.87	18.02	0.00	18.02	0.00	33.41	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
283	2.200	22.64	0.29	46.90	579.21	7.91	17.93	0.00	17.93	0.00	33.29	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

284	2.100	22.64	0.29	46.90	579.21	7.93	17.83	0.00	17.83	0.00	33.16	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
285	2.000	22.64	0.29	46.90	579.21	7.95	17.73	0.00	17.73	0.00	33.04	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
286	1.900	22.64	0.29	46.90	579.21	7.95	17.63	0.00	17.63	0.00	32.91	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
287	1.800	22.64	0.29	46.90	579.21	7.96	17.54	0.00	17.54	0.00	32.79	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
288	1.700	22.64	0.29	46.90	579.21	7.96	17.44	0.00	17.44	0.00	32.67	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
289	1.600	22.64	0.29	46.90	579.21	7.96	17.35	0.00	17.35	0.00	32.55	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
290	1.500	22.64	0.29	46.90	579.21	7.96	17.25	0.00	17.25	0.00	32.42	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
291	1.400	22.64	0.29	46.90	579.21	7.96	17.16	0.00	17.16	0.00	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
292	1.300	22.64	0.29	46.90	579.21	7.96	17.07	0.00	17.07	0.00	32.18	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
293	1.200	22.64	0.29	46.90	579.21	7.96	16.98	0.00	16.98	0.00	32.06	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
294	1.100	22.64	0.29	46.90	579.21	7.96	16.88	0.00	16.88	0.00	31.94	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
295	1.000	22.64	0.29	46.90	579.21	7.96	16.79	0.00	16.79	0.00	31.82	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
296	0.900	22.64	0.29	46.90	579.21	7.96	16.70	0.00	16.70	0.00	31.70	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
297	0.800	22.64	0.29	46.90	579.21	7.96	16.61	0.00	16.61	0.00	31.59	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
298	0.700	22.64	0.29	46.90	579.21	7.97	16.52	0.00	16.52	0.00	31.47	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
299	0.600	22.64	0.29	46.90	579.21	7.97	16.43	0.00	16.43	0.00	31.35	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
300	0.500	22.64	0.29	46.90	579.21	7.97	16.35	0.00	16.35	0.00	31.23	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
301	0.400	22.64	0.29	46.90	579.21	7.97	16.26	0.00	16.26	0.00	31.12	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
302	0.300	22.64	0.29	46.90	579.21	7.97	16.17	0.00	16.17	0.00	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
303	0.200	22.64	0.29	46.90	579.21	7.97	16.08	0.00	16.08	0.00	30.88	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
304	0.100	22.64	0.29	46.90	579.21	7.97	16.00	0.00	16.00	0.00	30.77	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
305	0.000	22.64	0.29	46.90	579.21	7.97	15.91	0.00	15.91	0.00	30.65	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Ditch#5 Beau Village

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME = 1.47 DAYS

MAXIMUM EFFLUENT = 78.97 PERCENT

FLOW	=	0.00028	TO	0.00133	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.02663	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.59	TO	0.59	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.66	TO	21.99	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.04	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	22.64	TO	22.64	deg C
DISSOLVED OXYGEN	=	5.47	TO	7.97	mg/L

FINAL REPORT Ditch #6 Hwy 190 BL
REACH NO. 16 Hwy 190 Ditch BL

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
341	HDWTR	0.00028	20.85	0.01	5.60	51.60	4.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
342	WSTLD	0.00009	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
344	WSTLD	0.00008	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
349	WSTLD	0.00002	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
350	WSTLD	0.00034	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
352	WSTLD	0.00064	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
353	WSTLD	0.00004	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
354	WSTLD	0.00020	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
358	WSTLD	0.00014	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
360	WSTLD	0.00096	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
341	2.20	2.10	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
342	2.10	2.00	0.00037	23.4	0.00731	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
343	2.00	1.90	0.00037	23.4	0.00731	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
344	1.90	1.80	0.00044	36.7	0.00884	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
345	1.80	1.70	0.00044	36.7	0.00884	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
346	1.70	1.60	0.00044	36.7	0.00884	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
347	1.60	1.50	0.00044	36.7	0.00884	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009

348	1.50	1.40	0.00044	36.7	0.00884	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
349	1.40	1.30	0.00046	39.0	0.00917	0.13	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.009
350	1.30	1.20	0.00080	64.9	0.01596	0.07	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.016
351	1.20	1.10	0.00080	64.9	0.01596	0.07	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.016
352	1.10	1.00	0.00144	80.6	0.02883	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.029
353	1.00	0.90	0.00148	81.1	0.02961	0.04	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.030
354	0.90	0.80	0.00168	83.4	0.03364	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.034
355	0.80	0.70	0.00168	83.4	0.03364	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.034
356	0.70	0.60	0.00168	83.4	0.03364	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.034
357	0.60	0.50	0.00168	83.4	0.03364	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.034
358	0.50	0.40	0.00182	84.6	0.03645	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.036
359	0.40	0.30	0.00182	84.6	0.03645	0.03	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.036
360	0.30	0.20	0.00279	90.0	0.05572	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
361	0.20	0.10	0.00279	90.0	0.05572	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
362	0.10	0.00	0.00279	90.0	0.05572	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.056
TOT						1.79			110.00	2200.00					
AVG					0.0142		0.05	1.00			0.05				
CUM						1.79									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
341	2.100	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
342	2.000	8.55	16.33	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
343	1.900	8.55	16.33	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
344	1.800	8.55	16.79	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
345	1.700	8.55	16.79	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
346	1.600	8.55	16.79	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
347	1.500	8.55	16.79	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
348	1.400	8.55	16.79	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
349	1.300	8.55	16.89	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
350	1.200	8.55	18.95	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
351	1.100	8.55	18.95	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
352	1.000	8.54	22.86	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
353	0.900	8.54	23.10	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
354	0.800	8.54	24.32	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
355	0.700	8.54	24.32	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
356	0.600	8.54	24.32	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
357	0.500	8.54	24.32	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
358	0.400	8.54	25.17	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
359	0.300	8.54	25.17	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
360	0.200	8.54	26.56	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
361	0.100	8.54	26.56	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
362	0.000	8.54	26.56	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			19.70	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
341	2.100	23.12	0.01	5.60	51.60	6.89	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.48	0.00	0.	0.00
342	2.000	23.12	0.09	17.82	207.75	7.14	17.46	0.00	17.46	0.00	15.63	0.00	0.00	0.00	0.00	0.96	0.00	0.	0.00
343	1.900	23.12	0.09	17.82	207.75	7.53	17.11	0.00	17.11	0.00	15.43	0.00	0.00	0.00	0.00	1.45	0.00	0.	0.00
344	1.800	23.12	0.14	24.78	296.56	7.31	25.66	0.00	25.66	0.00	23.67	0.00	0.00	0.00	0.00	1.93	0.00	0.	0.00
345	1.700	23.12	0.14	24.78	296.56	7.54	25.22	0.00	25.22	0.00	23.41	0.00	0.00	0.00	0.00	2.41	0.00	0.	0.00
346	1.600	23.12	0.14	24.78	296.56	7.62	24.79	0.00	24.79	0.00	23.14	0.00	0.00	0.00	0.00	2.89	0.00	0.	0.00
347	1.500	23.12	0.14	24.78	296.56	7.64	24.37	0.00	24.37	0.00	22.88	0.00	0.00	0.00	0.00	3.37	0.00	0.	0.00
348	1.400	23.12	0.14	24.78	296.56	7.65	23.95	0.00	23.95	0.00	22.63	0.00	0.00	0.00	0.00	3.85	0.00	0.	0.00
349	1.300	23.12	0.15	25.97	311.88	7.59	26.38	0.00	26.38	0.00	23.88	0.00	0.00	0.00	0.00	4.34	0.00	0.	0.00
350	1.200	23.12	0.24	39.55	485.34	6.61	44.07	0.00	44.07	0.00	40.90	0.00	0.00	0.00	0.00	4.82	0.00	0.	0.00
351	1.100	23.12	0.24	39.55	485.34	7.20	43.63	0.00	43.63	0.00	40.64	0.00	0.00	0.00	0.00	5.30	0.00	0.	0.00
352	1.000	23.12	0.30	47.74	589.92	6.24	54.64	0.00	54.64	0.00	51.11	0.00	0.00	0.00	0.00	5.78	0.00	0.	0.00
353	0.900	23.12	0.30	48.01	593.34	6.89	55.62	0.00	55.62	0.00	51.28	0.00	0.00	0.00	0.00	6.26	0.00	0.	0.00
354	0.800	23.12	0.31	49.19	608.48	6.98	51.47	0.00	51.47	0.00	50.14	0.00	0.00	0.00	0.00	6.75	0.00	0.	0.00
355	0.700	23.12	0.31	49.19	608.48	7.35	51.22	0.00	51.22	0.00	49.98	0.00	0.00	0.00	0.00	7.23	0.00	0.	0.00
356	0.600	23.12	0.31	49.19	608.48	7.55	50.97	0.00	50.97	0.00	49.83	0.00	0.00	0.00	0.00	7.71	0.00	0.	0.00
357	0.500	23.12	0.31	49.19	608.48	7.66	50.73	0.00	50.73	0.00	49.68	0.00	0.00	0.00	0.00	8.19	0.00	0.	0.00
358	0.400	23.12	0.31	49.86	617.06	7.48	54.56	0.00	54.56	0.00	50.68	0.00	0.00	0.00	0.00	8.67	0.00	0.	0.00
359	0.300	23.12	0.31	49.86	617.06	7.63	54.32	0.00	54.32	0.00	50.54	0.00	0.00	0.00	0.00	9.15	0.00	0.	0.00
360	0.200	23.12	0.33	52.64	652.56	6.44	59.22	0.00	59.22	0.00	55.27	0.00	0.00	0.00	0.00	9.64	0.00	0.	0.00
361	0.100	23.12	0.33	52.64	652.56	6.93	59.05	0.00	59.05	0.00	55.17	0.00	0.00	0.00	0.00	10.12	0.00	0.	0.00
362	0.000	23.12	0.33	52.64	652.56	7.25	58.88	0.00	58.88	0.00	55.06	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00

STREAM SUMMARY
Ditch #6 Hwy 190 BL

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME	=	1.79	DAYS		
MAXIMUM EFFLUENT	=	89.95	PERCENT		
FLOW	=	0.00028	TO	0.00279	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.05572	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.61	TO	0.61	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.81	TO	26.56	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.04	TO	0.04	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	23.12	TO	23.12	deg C
DISSOLVED OXYGEN	=	6.24	TO	7.66	mg/L

FINAL REPORT Ditch#7 Hwy434/190BL
REACH NO. 18 Hwy 434/190 Ditch BL

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
373	HDWTR	0.00028	20.85	0.01	5.60	51.60	4.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
374	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
390	WSTLD	0.00003	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
391	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
373	2.20	2.10	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
374	2.10	2.00	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
375	2.00	1.90	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
376	1.90	1.80	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
377	1.80	1.70	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
378	1.70	1.60	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
379	1.60	1.50	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
380	1.50	1.40	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
381	1.40	1.30	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
382	1.30	1.20	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
383	1.20	1.10	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
384	1.10	1.00	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
385	1.00	0.90	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
386	0.90	0.80	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
387	0.80	0.70	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
388	0.70	0.60	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
389	0.60	0.50	0.00028	0.3	0.00562	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
390	0.50	0.40	0.00031	10.8	0.00628	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
391	0.40	0.30	0.00032	13.4	0.00647	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
392	0.30	0.20	0.00032	13.4	0.00647	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
393	0.20	0.10	0.00032	13.4	0.00647	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
394	0.10	0.00	0.00032	13.4	0.00647	0.18	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
TOT						4.40			110.00	2200.00					
AVG					0.0058		0.05	1.00			0.05				
CUM						4.40									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
373	2.100	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
374	2.000	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
375	1.900	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00

376	1.800	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
377	1.700	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
378	1.600	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
379	1.500	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
380	1.400	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
381	1.300	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
382	1.200	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
383	1.100	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
384	1.000	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
385	0.900	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
386	0.800	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
387	0.700	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
388	0.600	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
389	0.500	8.56	15.81	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
390	0.400	8.56	16.01	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
391	0.300	8.56	16.07	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
392	0.200	8.56	16.07	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
393	0.100	8.56	16.07	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
394	0.000	8.56	16.07	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			14.94	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
373	2.100	23.12	0.01	5.60	51.60	6.89	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.48	0.00	0.	0.00
374	2.000	23.12	0.01	5.77	53.74	7.56	2.51	0.00	2.51	0.00	1.20	0.00	0.00	0.00	0.00	0.96	0.00	0.	0.00
375	1.900	23.12	0.01	5.77	53.74	7.73	2.50	0.00	2.50	0.00	1.20	0.00	0.00	0.00	0.00	1.45	0.00	0.	0.00
376	1.800	23.12	0.01	5.77	53.74	7.77	2.49	0.00	2.49	0.00	1.19	0.00	0.00	0.00	0.00	1.93	0.00	0.	0.00
377	1.700	23.12	0.01	5.77	53.74	7.78	2.49	0.00	2.49	0.00	1.19	0.00	0.00	0.00	0.00	2.41	0.00	0.	0.00
378	1.600	23.12	0.01	5.77	53.74	7.78	2.48	0.00	2.48	0.00	1.19	0.00	0.00	0.00	0.00	2.89	0.00	0.	0.00
379	1.500	23.12	0.01	5.77	53.74	7.78	2.47	0.00	2.47	0.00	1.18	0.00	0.00	0.00	0.00	3.37	0.00	0.	0.00
380	1.400	23.12	0.01	5.77	53.74	7.78	2.46	0.00	2.46	0.00	1.18	0.00	0.00	0.00	0.00	3.85	0.00	0.	0.00
381	1.300	23.12	0.01	5.77	53.74	7.79	2.45	0.00	2.45	0.00	1.18	0.00	0.00	0.00	0.00	4.34	0.00	0.	0.00
382	1.200	23.12	0.01	5.77	53.74	7.79	2.44	0.00	2.44	0.00	1.17	0.00	0.00	0.00	0.00	4.82	0.00	0.	0.00
383	1.100	23.12	0.01	5.77	53.74	7.79	2.43	0.00	2.43	0.00	1.17	0.00	0.00	0.00	0.00	5.30	0.00	0.	0.00
384	1.000	23.12	0.01	5.77	53.74	7.79	2.43	0.00	2.43	0.00	1.17	0.00	0.00	0.00	0.00	5.78	0.00	0.	0.00
385	0.900	23.12	0.01	5.77	53.74	7.79	2.42	0.00	2.42	0.00	1.16	0.00	0.00	0.00	0.00	6.26	0.00	0.	0.00
386	0.800	23.12	0.01	5.77	53.74	7.80	2.41	0.00	2.41	0.00	1.16	0.00	0.00	0.00	0.00	6.75	0.00	0.	0.00
387	0.700	23.12	0.01	5.77	53.74	7.80	2.41	0.00	2.41	0.00	1.16	0.00	0.00	0.00	0.00	7.23	0.00	0.	0.00
388	0.600	23.12	0.01	5.77	53.74	7.80	2.40	0.00	2.40	0.00	1.15	0.00	0.00	0.00	0.00	7.71	0.00	0.	0.00
389	0.500	23.12	0.01	5.77	53.74	7.80	2.39	0.00	2.39	0.00	1.15	0.00	0.00	0.00	0.00	8.19	0.00	0.	0.00
390	0.400	23.12	0.05	11.23	123.56	7.60	12.71	0.00	12.71	0.00	7.68	0.00	0.00	0.00	0.00	8.67	0.00	0.	0.00
391	0.300	23.12	0.06	12.62	141.26	7.65	14.07	0.00	14.07	0.00	9.23	0.00	0.00	0.00	0.00	9.15	0.00	0.	0.00
392	0.200	23.12	0.06	12.62	141.26	7.71	13.77	0.00	13.77	0.00	9.10	0.00	0.00	0.00	0.00	9.64	0.00	0.	0.00
393	0.100	23.12	0.06	12.62	141.26	7.73	13.47	0.00	13.47	0.00	8.97	0.00	0.00	0.00	0.00	10.12	0.00	0.	0.00
394	0.000	23.12	0.06	12.62	141.26	7.74	13.18	0.00	13.18	0.00	8.85	0.00	0.00	0.00	0.00	10.60	0.00	0.	0.00

STREAM SUMMARY
Ditch#7 Hwy434/190BL

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME = 4.40 DAYS

MAXIMUM EFFLUENT = 13.42 PERCENT

FLOW	=	0.00028	TO	0.00032	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.00647	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.61	TO	0.61	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.81	TO	16.07	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.04	TO	0.04	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	23.12	TO	23.12	deg C
DISSOLVED OXYGEN	=	6.89	TO	7.80	mg/L

FINAL REPORT Big Branch Bayou
REACH NO. 21 BB03 to Hwy 434/I-12 ditch BBB

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
426	HDWTR	0.00900	21.66	0.00	10.40	95.61	2.72	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	2.60	0.00	0.00
EACH	INCR	0.01475	21.66	0.00	10.40	95.61	2.72	2.68	0.00			0.05	0.00	0.00	0.00	0.00	0.00	

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
426	5.20	5.19	0.02375	0.0	0.01664	0.01	0.39	3.66	14.27	36.60	1.43	1.39	0.000	0.500	0.017
427	5.19	5.18	0.03850	0.0	0.02697	0.00	0.39	3.66	14.27	36.60	1.43	2.78	0.000	0.500	0.027
428	5.18	5.17	0.05325	0.0	0.03731	0.00	0.39	3.66	14.27	36.60	1.43	4.17	0.000	0.500	0.037
429	5.17	5.16	0.06800	0.0	0.04764	0.00	0.39	3.66	14.27	36.60	1.43	5.56	0.000	0.500	0.048
430	5.16	5.15	0.08275	0.0	0.05797	0.00	0.39	3.66	14.27	36.60	1.43	6.95	0.000	0.500	0.058
431	5.15	5.14	0.09750	0.0	0.06831	0.00	0.39	3.66	14.27	36.60	1.43	8.34	0.000	0.500	0.068
432	5.14	5.13	0.11225	0.0	0.07864	0.00	0.39	3.66	14.27	36.60	1.43	9.74	0.000	0.500	0.079
433	5.13	5.12	0.12700	0.0	0.08898	0.00	0.39	3.66	14.27	36.60	1.43	11.13	0.000	0.500	0.089
434	5.12	5.11	0.14175	0.0	0.09931	0.00	0.39	3.66	14.27	36.60	1.43	12.52	0.000	0.500	0.099
435	5.11	5.10	0.15651	0.0	0.10964	0.00	0.39	3.66	14.27	36.60	1.43	13.91	0.000	0.500	0.110
TOT						0.03			142.74	366.00					
AVG					0.0455		0.39	3.66			1.43				
CUM						0.03									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
426	5.190	8.80	1.85	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
427	5.180	8.80	1.85	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
428	5.170	8.80	1.88	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
429	5.160	8.80	2.01	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
430	5.150	8.80	2.12	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
431	5.140	8.80	2.22	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
432	5.130	8.80	2.30	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
433	5.120	8.80	2.38	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
434	5.110	8.80	2.45	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.51	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
435	5.100	8.80	2.52	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.09	0.07	0.05	0.00	0.00	0.00	0.00	2.00			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
426	5.190	21.66	0.00	10.40	95.62	2.77	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
427	5.180	21.66	0.00	10.40	95.62	2.77	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
428	5.170	21.66	0.00	10.40	95.62	2.78	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
429	5.160	21.66	0.00	10.40	95.63	2.78	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
430	5.150	21.66	0.00	10.40	95.65	2.78	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
431	5.140	21.66	0.00	10.41	95.69	2.79	2.68	0.00	2.68	0.00	0.05	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
432	5.130	21.66	0.00	10.42	95.81	2.79	2.69	0.00	2.69	0.00	0.06	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
433	5.120	21.66	0.00	10.44	96.12	2.80	2.70	0.00	2.70	0.00	0.08	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
434	5.110	21.66	0.00	10.51	97.03	2.81	2.72	0.00	2.72	0.00	0.14	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
435	5.100	21.66	0.00	10.72	99.84	2.84	2.81	0.00	2.81	0.00	0.32	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 23 Hwy434/I-12DitchBBBtoFolgerDitch CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
501	UPR RCH	0.15651	21.66	0.00	10.72	99.84	2.84	2.81	0.00	2.81	0.00	0.32	0.00	0.00	0.00	2.60	0.00	0.00
501	TRIB	0.00294	21.66	0.33	53.38	660.25	8.25	19.57	0.00	19.57	0.00	36.74	0.00	0.00	0.00	2.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
501	5.10	5.09	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	16.69	0.000	1.000	0.112
502	5.09	5.08	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	19.47	0.000	1.000	0.112
503	5.08	5.07	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	22.25	0.000	1.000	0.112
504	5.07	5.06	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	25.03	0.000	1.000	0.112
505	5.06	5.05	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	27.82	0.000	1.000	0.112
506	5.05	5.04	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	30.60	0.000	1.000	0.112
507	5.04	5.03	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	33.38	0.001	1.000	0.112
508	5.03	5.02	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	36.16	0.001	1.000	0.112
509	5.02	5.01	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	38.94	0.001	1.000	0.112
510	5.01	5.00	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	41.72	0.001	1.000	0.112
511	5.00	4.99	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	44.51	0.001	1.000	0.112
512	4.99	4.98	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	47.29	0.001	1.000	0.112
513	4.98	4.97	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	50.07	0.001	1.000	0.112
514	4.97	4.96	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	52.85	0.001	1.000	0.112
515	4.96	4.95	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	55.63	0.001	1.000	0.112
516	4.95	4.94	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	58.41	0.001	1.000	0.112
517	4.94	4.93	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	61.20	0.001	1.000	0.112
518	4.93	4.92	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	63.98	0.001	1.000	0.112
519	4.92	4.91	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	66.76	0.001	1.000	0.112
520	4.91	4.90	0.15944	1.7	0.11170	0.00	0.39	3.66	14.27	36.60	1.43	69.54	0.001	1.000	0.112
TOT						0.02			285.48	732.00					
AVG					0.1117		0.39	3.66			1.43				
CUM						0.05									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
501	5.090	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
502	5.080	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
503	5.070	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
504	5.060	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
505	5.050	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
506	5.040	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
507	5.030	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
508	5.020	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
509	5.010	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.52	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
510	5.000	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
511	4.990	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
512	4.980	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
513	4.970	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
514	4.960	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
515	4.950	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
516	4.940	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
517	4.930	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
518	4.920	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
519	4.910	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
520	4.900	8.80	2.53	0.08	0.05	0.00	0.00	0.00	0.00	2.22	2.22	2.22	0.53	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.45	0.07	0.05	0.00	0.00	0.00	0.00	2.00			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
501	5.090	21.66	0.01	11.19	106.02	2.91	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
502	5.080	21.66	0.01	11.19	106.02	2.92	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
503	5.070	21.66	0.01	11.19	106.02	2.93	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
504	5.060	21.66	0.01	11.19	106.02	2.94	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
505	5.050	21.66	0.01	11.19	106.02	2.95	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
506	5.040	21.66	0.01	11.19	106.02	2.96	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
507	5.030	21.66	0.01	11.19	106.02	2.97	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
508	5.020	21.66	0.01	11.19	106.02	2.98	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
509	5.010	21.66	0.01	11.19	106.02	2.98	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
510	5.000	21.66	0.01	11.19	106.02	2.99	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
511	4.990	21.66	0.01	11.19	106.02	3.00	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
512	4.980	21.66	0.01	11.19	106.02	3.01	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
513	4.970	21.66	0.01	11.19	106.02	3.02	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
514	4.960	21.66	0.01	11.19	106.02	3.03	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
515	4.950	21.66	0.01	11.19	106.02	3.04	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
516	4.940	21.66	0.01	11.19	106.03	3.05	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

517	4.930	21.66	0.01	11.19	106.04	3.05	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
518	4.920	21.66	0.01	11.19	106.05	3.06	2.99	0.00	2.99	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
519	4.910	21.66	0.01	11.20	106.09	3.07	3.00	0.00	3.00	0.00	0.72	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00
520	4.900	21.66	0.01	11.20	106.17	3.07	3.02	0.00	3.02	0.00	0.73	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 25 Folger Ditch to BB02 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
525	UPR RCH	0.15944	21.66	0.01	11.20	106.17	3.07	3.02	0.00	3.02	0.00	0.73	0.00	0.00	0.00	2.60	0.00	0.00
525	TRIB	0.00046	21.66	0.14	28.69	335.90	7.84	26.58	0.00	26.58	0.00	24.68	0.00	0.00	0.00	2.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
525	4.90	4.80	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	111.26	0.002	2.000	0.112
526	4.80	4.70	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	152.99	0.002	2.000	0.112
527	4.70	4.60	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	194.71	0.003	2.000	0.112
528	4.60	4.50	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	236.44	0.004	2.000	0.112
529	4.50	4.40	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	278.16	0.004	2.000	0.112
530	4.40	4.30	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	319.88	0.005	2.000	0.112
531	4.30	4.20	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	361.61	0.006	2.000	0.112
532	4.20	4.10	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	403.33	0.006	2.000	0.112
533	4.10	4.00	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	445.06	0.007	2.000	0.112
534	4.00	3.90	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	486.78	0.008	2.000	0.112
535	3.90	3.80	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	528.50	0.008	2.000	0.112
536	3.80	3.70	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	570.23	0.009	2.000	0.112
537	3.70	3.60	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	611.95	0.010	2.000	0.112
538	3.60	3.50	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	653.68	0.010	2.000	0.112
539	3.50	3.40	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	695.40	0.011	2.000	0.112
540	3.40	3.30	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	737.12	0.011	2.000	0.112
541	3.30	3.20	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	778.85	0.012	2.000	0.112
542	3.20	3.10	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	820.57	0.013	2.000	0.112
543	3.10	3.00	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	862.30	0.013	2.000	0.112
544	3.00	2.90	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	904.02	0.014	2.000	0.112
545	2.90	2.80	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	945.74	0.015	2.000	0.112
546	2.80	2.70	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	987.47	0.015	2.000	0.112
547	2.70	2.60	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1029.19	0.016	2.000	0.112
548	2.60	2.50	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1070.92	0.017	2.000	0.112
549	2.50	2.40	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1112.64	0.017	2.000	0.112
550	2.40	2.30	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1154.36	0.018	2.000	0.112
551	2.30	2.20	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1196.09	0.019	2.000	0.112
552	2.20	2.10	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1237.81	0.019	2.000	0.112
553	2.10	2.00	0.15990	1.8	0.11202	0.01	0.39	3.66	142.74	366.00	1.43	1279.54	0.020	2.000	0.112
TOT						0.30			4139.46	10614.00					
AVG					0.1120		0.39	3.66			1.43				
CUM						0.35									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
525	4.800	8.79	2.54	0.08	0.05	0.00	0.00	0.00	0.00	6.68	6.68	6.68	0.53	0.05	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
526	4.700	8.78	2.54	0.08	0.05	0.00	0.00	0.00	0.00	6.70	6.70	6.70	0.53	0.05	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
527	4.600	8.78	2.54	0.08	0.05	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.53	0.05	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
528	4.500	8.77	2.55	0.08	0.05	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.53	0.05	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
529	4.400	8.76	2.55	0.08	0.05	0.00	0.00	0.00	0.00	6.77	6.77	6.77	0.53	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
530	4.300	8.75	2.55	0.08	0.05	0.00	0.00	0.00	0.00	6.79	6.79	6.79	0.53	0.05	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
531	4.200	8.74	2.55	0.08	0.05	0.00	0.00	0.00	0.00	6.81	6.81	6.81	0.53	0.05	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
532	4.100	8.73	2.56	0.08	0.05	0.00	0.00	0.00	0.00	6.83	6.83	6.83	0.53	0.05	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
533	4.000	8.73	2.56	0.08	0.05	0.00	0.00	0.00	0.00	6.85	6.85	6.85	0.53	0.05	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
534	3.900	8.72	2.56	0.08	0.05	0.00	0.00	0.00	0.00	6.87	6.87	6.87	0.53	0.05	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
535	3.800	8.71	2.56	0.08	0.05	0.00	0.00	0.00	0.00	6.89	6.89	6.89	0.53	0.05	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
536	3.700	8.70	2.57	0.08	0.05	0.00	0.00	0.00	0.00	6.92	6.92	6.92	0.53	0.05	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
537	3.600	8.69	2.57	0.08	0.05	0.00	0.00	0.00	0.00	6.94	6.94	6.94	0.53	0.05	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
538	3.500	8.68	2.57	0.08	0.05	0.00	0.00	0.00	0.00	6.96	6.96	6.96	0.53	0.05	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
539	3.400	8.68	2.57	0.08	0.05	0.00	0.00	0.00	0.00	6.98	6.98	6.98	0.53	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
540	3.300	8.67	2.58	0.08	0.05	0.00	0.00	0.00	0.00	7.00	7.00	7.00	0.53	0.05	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
541	3.200	8.66	2.58	0.08	0.05	0.00	0.00	0.00	0.00	7.02	7.02	7.02	0.53	0.05	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
542	3.100	8.65	2.58	0.08	0.05	0.00	0.00	0.00	0.00	7.05	7.05	7.05	0.53	0.05	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00

543	3.000	8.64	2.58	0.08	0.05	0.00	0.00	0.00	0.00	7.07	7.07	7.07	0.53	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
544	2.900	8.63	2.58	0.08	0.05	0.00	0.00	0.00	0.00	7.09	7.09	7.09	0.53	0.05	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
545	2.800	8.63	2.59	0.08	0.05	0.00	0.00	0.00	0.00	7.11	7.11	7.11	0.53	0.05	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
546	2.700	8.62	2.59	0.08	0.05	0.00	0.00	0.00	0.00	7.14	7.14	7.14	0.53	0.05	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
547	2.600	8.61	2.59	0.08	0.05	0.00	0.00	0.00	0.00	7.16	7.16	7.16	0.53	0.05	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
548	2.500	8.60	2.59	0.08	0.05	0.00	0.00	0.00	0.00	7.18	7.18	7.18	0.52	0.05	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
549	2.400	8.59	2.60	0.08	0.05	0.00	0.00	0.00	0.00	7.20	7.20	7.20	0.52	0.05	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
550	2.300	8.59	2.60	0.08	0.05	0.00	0.00	0.00	0.00	7.23	7.23	7.23	0.52	0.05	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
551	2.200	8.58	2.60	0.08	0.05	0.00	0.00	0.00	0.00	7.25	7.25	7.25	0.52	0.05	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
552	2.100	8.57	2.60	0.08	0.05	0.00	0.00	0.00	0.00	7.27	7.27	7.27	0.52	0.05	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
553	2.000	8.56	2.61	0.08	0.05	0.00	0.00	0.00	0.00	7.29	7.29	7.29	0.49	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.45	0.07	0.05	0.00	0.00	0.00	0.00	6.00			0.60	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
525	4.800	21.71	0.01	11.24	106.67	3.05	3.12	0.00	3.12	0.00	0.78	0.00	0.00	0.00	0.00	3.01	0.00	0.	0.00
526	4.700	21.76	0.01	11.24	106.67	3.02	3.18	0.00	3.18	0.00	0.77	0.00	0.00	0.00	0.00	3.41	0.00	0.	0.00
527	4.600	21.81	0.01	11.24	106.67	2.99	3.24	0.00	3.24	0.00	0.77	0.00	0.00	0.00	0.00	3.82	0.00	0.	0.00
528	4.500	21.86	0.01	11.24	106.67	2.96	3.29	0.00	3.29	0.00	0.76	0.00	0.00	0.00	0.00	4.23	0.00	0.	0.00
529	4.400	21.91	0.01	11.24	106.67	2.93	3.35	0.00	3.35	0.00	0.76	0.00	0.00	0.00	0.00	4.63	0.00	0.	0.00
530	4.300	21.96	0.01	11.24	106.67	2.90	3.41	0.00	3.41	0.00	0.75	0.00	0.00	0.00	0.00	5.04	0.00	0.	0.00
531	4.200	22.01	0.01	11.24	106.67	2.87	3.47	0.00	3.47	0.00	0.75	0.00	0.00	0.00	0.00	5.45	0.00	0.	0.00
532	4.100	22.06	0.01	11.24	106.67	2.84	3.53	0.00	3.53	0.00	0.74	0.00	0.00	0.00	0.00	5.86	0.00	0.	0.00
533	4.000	22.11	0.01	11.24	106.67	2.81	3.58	0.00	3.58	0.00	0.74	0.00	0.00	0.00	0.00	6.26	0.00	0.	0.00
534	3.900	22.16	0.01	11.24	106.67	2.78	3.64	0.00	3.64	0.00	0.74	0.00	0.00	0.00	0.00	6.67	0.00	0.	0.00
535	3.800	22.21	0.01	11.24	106.67	2.76	3.70	0.00	3.70	0.00	0.73	0.00	0.00	0.00	0.00	7.08	0.00	0.	0.00
536	3.700	22.26	0.01	11.24	106.67	2.73	3.76	0.00	3.76	0.00	0.73	0.00	0.00	0.00	0.00	7.48	0.00	0.	0.00
537	3.600	22.31	0.01	11.24	106.67	2.70	3.81	0.00	3.81	0.00	0.72	0.00	0.00	0.00	0.00	7.89	0.00	0.	0.00
538	3.500	22.36	0.01	11.24	106.67	2.67	3.87	0.00	3.87	0.00	0.72	0.00	0.00	0.00	0.00	8.30	0.00	0.	0.00
539	3.400	22.40	0.01	11.24	106.67	2.65	3.93	0.00	3.93	0.00	0.71	0.00	0.00	0.00	0.00	8.70	0.00	0.	0.00
540	3.300	22.45	0.01	11.24	106.67	2.62	3.98	0.00	3.98	0.00	0.71	0.00	0.00	0.00	0.00	9.11	0.00	0.	0.00
541	3.200	22.50	0.01	11.24	106.67	2.59	4.04	0.00	4.04	0.00	0.71	0.00	0.00	0.00	0.00	9.52	0.00	0.	0.00
542	3.100	22.55	0.01	11.24	106.67	2.57	4.10	0.00	4.10	0.00	0.70	0.00	0.00	0.00	0.00	9.92	0.00	0.	0.00
543	3.000	22.60	0.01	11.24	106.67	2.54	4.15	0.00	4.15	0.00	0.70	0.00	0.00	0.00	0.00	10.33	0.00	0.	0.00
544	2.900	22.65	0.01	11.24	106.67	2.52	4.21	0.00	4.21	0.00	0.69	0.00	0.00	0.00	0.00	10.74	0.00	0.	0.00
545	2.800	22.70	0.01	11.24	106.67	2.49	4.27	0.00	4.27	0.00	0.69	0.00	0.00	0.00	0.00	11.14	0.00	0.	0.00
546	2.700	22.75	0.01	11.24	106.67	2.47	4.32	0.00	4.32	0.00	0.68	0.00	0.00	0.00	0.00	11.55	0.00	0.	0.00
547	2.600	22.80	0.01	11.24	106.67	2.44	4.38	0.00	4.38	0.00	0.68	0.00	0.00	0.00	0.00	11.96	0.00	0.	0.00
548	2.500	22.85	0.01	11.24	106.67	2.42	4.44	0.00	4.44	0.00	0.68	0.00	0.00	0.00	0.00	12.37	0.00	0.	0.00
549	2.400	22.90	0.01	11.24	106.68	2.39	4.49	0.00	4.49	0.00	0.67	0.00	0.00	0.00	0.00	12.77	0.00	0.	0.00
550	2.300	22.95	0.01	11.24	106.68	2.37	4.55	0.00	4.55	0.00	0.67	0.00	0.00	0.00	0.00	13.18	0.00	0.	0.00
551	2.200	23.00	0.01	11.25	106.74	2.34	4.61	0.00	4.61	0.00	0.67	0.00	0.00	0.00	0.00	13.59	0.00	0.	0.00
552	2.100	23.05	0.01	11.31	107.13	2.28	4.72	0.00	4.72	0.00	0.71	0.00	0.00	0.00	0.00	13.99	0.00	0.	0.00
553	2.000	23.10	0.01	11.67	109.69	2.00	5.12	0.00	5.12	0.00	0.98	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 26 BB02 to Berry Todd Rd Ditch CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
554	UPR RCH	0.15990	23.10	0.01	11.67	109.69	2.00	5.12	0.00	5.12	0.00	0.98	0.00	0.00	0.00	14.40	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
554	2.00	1.99	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1302.70	0.002	2.500	0.009
555	1.99	1.98	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1325.87	0.002	2.500	0.009
556	1.98	1.97	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1349.03	0.002	2.500	0.009
557	1.97	1.96	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1372.20	0.002	2.500	0.009
558	1.96	1.95	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1395.36	0.002	2.500	0.009
559	1.95	1.94	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1418.52	0.002	2.500	0.009
560	1.94	1.93	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1441.69	0.002	2.500	0.009
561	1.93	1.92	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1464.85	0.002	2.500	0.009
562	1.92	1.91	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1488.02	0.002	2.500	0.009
563	1.91	1.90	0.15990	1.8	0.00937	0.01	1.12	15.24	170.69	152.40	17.07	1511.18	0.002	2.500	0.009
TOT						0.12			1706.88	1524.00					
AVG					0.0094		1.12	15.24			17.07				

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 CUM                                                0.47

 ********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************

 ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN    NH3   NH3  DENIT   PO4   ALG   MAC   COLI    NCM    NCM
 NO.     DIST  D.O.    RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
               mg/L    1/da   1/da  1/da   1/da   1/da  1/da   1/da     *     *     *   1/da  1/da   1/da     *    1/da     *    **    **   1/da   1/da   1/da

 554    1.990  8.56    0.66   0.05  0.05   0.00   0.00  0.00   0.00  8.51  8.51  8.51   0.04  0.05   0.00  0.00   0.00  0.00  0.83  0.00   0.00   0.00   0.00
 555    1.980  8.56    0.66   0.05  0.05   0.00   0.00  0.00   0.00  8.51  8.51  8.51   0.03  0.05   0.00  0.00   0.00  0.00  0.83  0.00   0.00   0.00   0.00
 556    1.970  8.56    0.66   0.05  0.05   0.00   0.00  0.00   0.00  8.51  8.51  8.51   0.03  0.05   0.00  0.00   0.00  0.00  0.83  0.00   0.00   0.00   0.00
 557    1.960  8.56    0.66   0.05  0.05   0.00   0.00  0.00   0.00  8.51  8.51  8.51   0.03  0.05   0.00  0.00   0.00  0.00  0.83  0.00   0.00   0.00   0.00
 558    1.950  8.56    0.66   0.04  0.05   0.00   0.00  0.00   0.00  8.51  8.51  8.51   0.03  0.05   0.00  0.00   0.00  0.00  0.83  0.00   0.00   0.00   0.00
 559    1.940  8.56    0.66   0.04  0.05   0.00   0.00  0.00   0.00  8.51  8.51  8.51   0.03  0.05   0.00  0.00   0.00  0.00  0.83  0.00   0.00   0.00   0.00
 560    1.930  8.56    0.66   0.04  0.05   0.00   0.00  0.00   0.00  8.51  8.51  8.51   0.02  0.05   0.00  0.00   0.00  0.00  0.83  0.00   0.00   0.00   0.00
 561    1.920  8.56    0.66   0.04  0.05   0.00   0.00  0.00   0.00  8.51  8.51  8.51   0.02  0.05   0.00  0.00   0.00  0.00  0.83  0.00   0.00   0.00   0.00
 562    1.910  8.56    0.66   0.04  0.05   0.00   0.00  0.00   0.00  8.51  8.51  8.51   0.02  0.05   0.00  0.00   0.00  0.00  0.83  0.00   0.00   0.00   0.00
 563    1.900  8.56    0.66   0.04  0.05   0.00   0.00  0.00   0.00  8.51  8.51  8.51   0.02  0.05   0.00  0.00   0.00  0.00  0.83  0.00   0.00   0.00   0.00

 AVG 20 DEG C RATE      0.62   0.05  0.05   0.00   0.00  0.00   0.00  7.00               0.11  0.05   0.00  0.00   0.00  0.00                0.00   0.00   0.00

 *   g/m²/d             **   mg/L/day


 ********************************************** WATER QUALITY CONSTITUENT VALUES **********************************************

 ELEM  ENDING   TEMP  SALN chloride  conduct    DO   BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   TOTN   PHOS  CHL A  MACRO     COLI     NCM
 NO.     DIST  DEG C   PPT     mg/L    uS/cm  mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L   g/m³  #/100mL

 554    1.990  23.10  0.01    12.26   113.78  1.57   5.68   0.00   5.68   0.00   1.42   0.00   0.00   0.00   0.00  14.40   0.00       0.   0.00
 555    1.980  23.10  0.01    12.30   114.05  1.54   5.71   0.00   5.71   0.00   1.45   0.00   0.00   0.00   0.00  14.40   0.00       0.   0.00
 556    1.970  23.10  0.01    12.34   114.32  1.51   5.75   0.00   5.75   0.00   1.48   0.00   0.00   0.00   0.00  14.40   0.00       0.   0.00
 557    1.960  23.10  0.01    12.38   114.61  1.49   5.79   0.00   5.79   0.00   1.51   0.00   0.00   0.00   0.00  14.40   0.00       0.   0.00
 558    1.950  23.10  0.01    12.42   114.91  1.46   5.83   0.00   5.83   0.00   1.54   0.00   0.00   0.00   0.00  14.40   0.00       0.   0.00
 559    1.940  23.10  0.01    12.46   115.22  1.43   5.88   0.00   5.88   0.00   1.57   0.00   0.00   0.00   0.00  14.40   0.00       0.   0.00
 560    1.930  23.10  0.01    12.51   115.54  1.41   5.92   0.00   5.92   0.00   1.61   0.00   0.00   0.00   0.00  14.40   0.00       0.   0.00
 561    1.920  23.10  0.01    12.56   115.87  1.38   5.97   0.00   5.97   0.00   1.64   0.00   0.00   0.00   0.00  14.40   0.00       0.   0.00
 562    1.910  23.10  0.01    12.60   116.21  1.35   6.02   0.00   6.02   0.00   1.68   0.00   0.00   0.00   0.00  14.40   0.00       0.   0.00
 563    1.900  23.10  0.01    12.66   116.57  1.33   6.07   0.00   6.07   0.00   1.72   0.00   0.00   0.00   0.00  14.40   0.00       0.   0.00


FINAL REPORT    Big Branch Bayou                                BAYOU LACOMBE WATERSHED MODEL
REACH NO. 28    BerryToddRdDitchtoHwy190DitchBBB                CALIBRATION


 ********************************************************** REACH INPUTS **********************************************************

 ELEM  TYPE         FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                        deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

  584  UPR RCH   0.15990   23.10     0.01    12.66   116.57   1.33   6.07   0.00   6.07   0.00   1.72   0.00   0.00   0.00  14.40     0.00    0.00
  584  TRIB      0.00273   23.10     0.33    53.03   655.77   7.84  49.02   0.00  49.02   0.00  74.58   0.00   0.00   0.00  14.40     0.00    0.00


 ************************************************** HYDRAULIC PARAMETER VALUES **************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
  NO.    DIST    DIST             EFF     VELO      TIME                                   AREA    AREA     PRISM    VELO              VELO
          km      km        m³/s            m/s      days       m       m        m³         m²      m²        m³     m/s     m²/s     m/s

  584    1.90    1.80    0.16263   3.3   0.00953      0.12    1.12   15.24   1706.88    1524.00   17.07   1742.83   0.002     3.500   0.010
  585    1.80    1.70    0.16263   3.3   0.00953      0.12    1.12   15.24   1706.88    1524.00   17.07   1974.48   0.003     3.500   0.010
  586    1.70    1.60    0.16263   3.3   0.00953      0.12    1.12   15.24   1706.88    1524.00   17.07   2206.13   0.003     3.500   0.010
  587    1.60    1.50    0.16263   3.3   0.00953      0.12    1.12   15.24   1706.88    1524.00   17.07   2437.78   0.003     3.500   0.010
  588    1.50    1.40    0.16263   3.3   0.00953      0.12    1.12   15.24   1706.88    1524.00   17.07   2669.42   0.003     3.500   0.010
  589    1.40    1.30    0.16263   3.3   0.00953      0.12    1.12   15.24   1706.88    1524.00   17.07   2901.07   0.004     3.500   0.010
  590    1.30    1.20    0.16263   3.3   0.00953      0.12    1.12   15.24   1706.88    1524.00   17.07   3132.72   0.004     3.500   0.010
  591    1.20    1.10    0.16263   3.3   0.00953      0.12    1.12   15.24   1706.88    1524.00   17.07   3364.37   0.004     3.500   0.010
  592    1.10    1.00    0.16263   3.3   0.00953      0.12    1.12   15.24   1706.88    1524.00   17.07   3596.02   0.005     3.500   0.010
  593    1.00    0.90    0.16263   3.3   0.00953      0.12    1.12   15.24   1706.88    1524.00   17.07   3827.66   0.005     3.500   0.010
  594    0.90    0.80    0.16263   3.3   0.00953      0.12    1.12   15.24   1706.88    1524.00   17.07   4059.31   0.005     3.500   0.010

  TOT                                                 1.34                   18775.68   16764.00
  AVG                                        0.0095            1.12   15.24                          17.07
  CUM                                                 1.81

 ********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************

 ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN    NH3   NH3  DENIT   PO4   ALG   MAC   COLI    NCM    NCM
 NO.     DIST  D.O.    RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
               mg/L    1/da   1/da  1/da   1/da   1/da  1/da   1/da     *     *     *   1/da  1/da   1/da     *    1/da     *    **    **   1/da   1/da   1/da
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584	1.800	8.56	0.66	0.04	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.01	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
585	1.700	8.56	0.66	0.03	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.01	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
586	1.600	8.56	0.66	0.03	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
587	1.500	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
588	1.400	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
589	1.300	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
590	1.200	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
591	1.100	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
592	1.000	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
593	0.900	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
594	0.800	8.56	0.66	0.02	0.05	0.00	0.00	0.00	0.00	8.51	8.51	8.51	0.00	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.62	0.05	0.05	0.00	0.00	0.00	0.00	7.00			0.11	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
584	1.800	23.10	0.01	12.87	118.07	1.22	6.29	0.00	6.29	0.00	1.88	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
585	1.700	23.10	0.01	13.12	118.65	1.05	6.49	0.00	6.49	0.00	1.89	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
586	1.600	23.10	0.02	13.44	119.40	0.90	6.71	0.00	6.71	0.00	1.89	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
587	1.500	23.10	0.02	13.85	120.35	0.76	6.94	0.00	6.94	0.00	1.91	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
588	1.400	23.10	0.02	14.37	121.57	0.65	7.19	0.00	7.19	0.00	1.93	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
589	1.300	23.10	0.02	15.03	123.11	0.57	7.47	0.00	7.47	0.00	1.96	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
590	1.200	23.10	0.02	15.87	125.07	0.51	7.77	0.00	7.77	0.00	2.01	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
591	1.100	23.10	0.02	16.94	127.56	0.49	8.12	0.00	8.12	0.00	2.07	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
592	1.000	23.10	0.03	18.29	130.74	0.51	8.51	0.00	8.51	0.00	2.15	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
593	0.900	23.10	0.03	20.02	134.78	0.59	8.98	0.00	8.98	0.00	2.26	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00
594	0.800	23.10	0.03	22.22	139.92	0.75	9.52	0.00	9.52	0.00	2.40	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 30 Hwy 190 Ditch BBB to BB01 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
608	UPR RCH	0.16263	23.10	0.03	22.22	139.92	0.75	9.52	0.00	9.52	0.00	2.40	0.00	0.00	0.00	14.40	0.00	0.00
608	TRIB	0.00029	23.10	0.01	11.43	109.13	7.82	3.76	0.00	3.76	0.00	2.13	0.00	0.00	0.00	14.40	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
608	0.80	0.70	0.16292	3.2	0.00954	0.12	1.12	15.24	1706.88	1524.00	17.07	4290.96	0.006	5.500	0.010
609	0.70	0.60	0.16292	3.2	0.00954	0.12	1.12	15.24	1706.88	1524.00	17.07	4522.61	0.006	5.500	0.010
610	0.60	0.50	0.16292	3.2	0.00954	0.12	1.12	15.24	1706.88	1524.00	17.07	4754.26	0.006	5.500	0.010
611	0.50	0.40	0.16292	3.2	0.00954	0.12	1.12	15.24	1706.88	1524.00	17.07	4985.90	0.006	5.500	0.010
612	0.40	0.30	0.16292	3.2	0.00954	0.12	1.12	15.24	1706.88	1524.00	17.07	5217.55	0.007	5.500	0.010
TOT						0.61			8534.40	7620.00					
AVG					0.0095		1.12	15.24			17.07				
CUM						2.41									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
608	0.700	8.47	0.67	0.03	0.05	0.00	0.00	0.00	0.00	8.81	8.81	8.81	0.01	0.05	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
609	0.600	8.39	0.68	0.04	0.06	0.00	0.00	0.00	0.00	9.11	9.11	9.11	0.01	0.06	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
610	0.500	8.30	0.68	0.05	0.06	0.00	0.00	0.00	0.00	9.43	9.43	9.43	0.04	0.06	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
611	0.400	8.22	0.69	0.07	0.06	0.00	0.00	0.00	0.00	9.76	9.76	9.76	0.10	0.06	0.00	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
612	0.300	8.14	0.70	0.07	0.06	0.00	0.00	0.00	0.00	10.11	10.11	10.11	0.12	0.06	0.00	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.62	0.05	0.05	0.00	0.00	0.00	0.00	7.00			0.11	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
608	0.700	23.65	0.04	24.40	145.00	0.96	10.04	0.00	10.04	0.00	2.54	0.00	0.00	0.00	0.00	16.76	0.00	0.	0.00
609	0.600	24.19	0.04	26.56	150.05	1.20	10.48	0.00	10.48	0.00	2.68	0.00	0.00	0.00	0.00	19.12	0.00	0.	0.00
610	0.500	24.74	0.05	29.09	155.98	1.54	10.93	0.00	10.93	0.00	2.86	0.00	0.00	0.00	0.00	21.48	0.00	0.	0.00
611	0.400	25.28	0.06	32.07	162.94	2.01	11.41	0.00	11.41	0.00	3.07	0.00	0.00	0.00	0.00	23.84	0.00	0.	0.00
612	0.300	25.83	0.06	35.56	171.10	2.64	11.90	0.00	11.90	0.00	3.32	0.00	0.00	0.00	0.00	26.20	0.00	0.	0.00

FINAL REPORT Big Branch Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 31 BB01toConfluenceWithBayouLacombe CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
613	UPR RCH	0.16292	25.83	0.06	35.56	171.10	2.64	11.90	0.00	11.90	0.00	3.32	0.00	0.00	0.00	26.20	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
613	0.30	0.20	0.16292	3.2	0.00193	0.60	2.13	39.62	8439.06	3962.00	84.39	5819.78	0.002	7.500	0.002
614	0.20	0.10	0.16292	3.2	0.00193	0.60	2.13	39.62	8439.06	3962.00	84.39	6422.00	0.002	7.500	0.002
615	0.10	0.00	0.16292	3.2	0.00193	0.60	2.13	39.62	8439.06	3962.00	84.39	7024.22	0.002	7.500	0.002
TOT						1.80			25317.18	11886.00					
AVG					0.0019		2.13	39.62			84.39				
CUM						4.21									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
613	0.200	8.13	0.37	0.06	0.06	0.00	0.00	0.00	0.00	10.11	10.11	10.11	0.05	0.06	0.00	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
614	0.100	8.13	0.37	0.06	0.06	0.00	0.00	0.00	0.00	10.11	10.11	10.11	0.05	0.06	0.00	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
615	0.000	8.13	0.37	0.06	0.06	0.00	0.00	0.00	0.00	10.12	10.12	10.12	0.05	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.33	0.05	0.05	0.00	0.00	0.00	0.00	7.00			0.04	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
613	0.200	25.84	0.07	36.62	173.58	2.86	12.04	0.00	12.04	0.00	3.40	0.00	0.00	0.00	0.00	24.20	0.00	0.	0.00
614	0.100	25.84	0.07	37.26	175.06	3.02	11.90	0.00	11.90	0.00	3.33	0.00	0.00	0.00	0.00	22.20	0.00	0.	0.00
615	0.000	25.85	0.07	37.91	176.58	3.23	11.55	0.00	11.55	0.00	3.15	0.00	0.00	0.00	0.00	20.20	0.00	0.	0.00

STREAM SUMMARY BAYOU LACOMBE WATERSHED MODEL
Big Branch Bayou CALIBRATION

TRAVEL TIME = 4.21 DAYS

MAXIMUM EFFLUENT = 3.25 PERCENT

FLOW	=	0.02375	TO	0.16292	m³/s
DISPERSION	=	0.5000	TO	7.5000	m²/s
VELOCITY	=	0.00193	TO	0.11202	m/s
DEPTH	=	0.39	TO	2.13	m
WIDTH	=	3.66	TO	39.62	m
BOD DECAY	=	0.02	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	2.22	TO	10.12	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	0.37	TO	2.61	per day
BOD SETTLING	=	0.05	TO	0.06	per day
NBOD DECAY	=	0.00	TO	0.53	per day
NBOD SETTLING	=	0.05	TO	0.06	per day

TEMPERATURE = 21.66 TO 25.85 deg C
DISSOLVED OXYGEN = 0.49 TO 3.23 mg/L

FINAL REPORT Dich#8Hwy434/I-12BBB BAYOU LACOMBE WATERSHED MODEL
REACH NO. 22 Hwy 434/I-12 Ditch BBB CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
436	HDWTR	0.00028	21.66	0.00	10.40	95.61	4.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
442	WSTLD	0.00003	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
464	WSTLD	0.00263	30.60	0.37	57.90	719.70	2.00	23.00	0.00	23.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
436	6.50	6.40	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
437	6.40	6.30	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
438	6.30	6.20	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
439	6.20	6.10	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
440	6.10	6.00	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
441	6.00	5.90	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
442	5.90	5.80	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
443	5.80	5.70	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
444	5.70	5.60	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
445	5.60	5.50	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
446	5.50	5.40	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
447	5.40	5.30	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
448	5.30	5.20	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
449	5.20	5.10	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
450	5.10	5.00	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
451	5.00	4.90	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
452	4.90	4.80	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
453	4.80	4.70	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
454	4.70	4.60	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
455	4.60	4.50	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
456	4.50	4.40	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
457	4.40	4.30	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
458	4.30	4.20	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
459	4.20	4.10	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
460	4.10	4.00	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
461	4.00	3.90	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
462	3.90	3.80	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
463	3.80	3.70	0.00031	9.9	0.00621	0.19	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
464	3.70	3.60	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
465	3.60	3.50	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
466	3.50	3.40	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
467	3.40	3.30	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
468	3.30	3.20	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
469	3.20	3.10	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
470	3.10	3.00	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
471	3.00	2.90	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
472	2.90	2.80	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
473	2.80	2.70	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
474	2.70	2.60	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
475	2.60	2.50	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
476	2.50	2.40	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
477	2.40	2.30	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
478	2.30	2.20	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
479	2.20	2.10	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
480	2.10	2.00	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
481	2.00	1.90	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
482	1.90	1.80	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
483	1.80	1.70	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
484	1.70	1.60	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
485	1.60	1.50	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
486	1.50	1.40	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
487	1.40	1.30	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
488	1.30	1.20	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
489	1.20	1.10	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
490	1.10	1.00	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
491	1.00	0.90	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
492	0.90	0.80	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
493	0.80	0.70	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
494	0.70	0.60	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
495	0.60	0.50	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059

496	0.50	0.40	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
497	0.40	0.30	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
498	0.30	0.20	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
499	0.20	0.10	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
500	0.10	0.00	0.00294	90.5	0.05879	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.059
TOT						6.07			325.00	6500.00					
AVG					0.0124		0.05	1.00			0.05				
CUM						6.07									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
436	6.400	8.80	15.37	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
437	6.300	8.80	15.37	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
438	6.200	8.80	15.37	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
439	6.100	8.80	15.37	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
440	6.000	8.80	15.37	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
441	5.900	8.80	15.37	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
442	5.800	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
443	5.700	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
444	5.600	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
445	5.500	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
446	5.400	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
447	5.300	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
448	5.200	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
449	5.100	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
450	5.000	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
451	4.900	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
452	4.800	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
453	4.700	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
454	4.600	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
455	4.500	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
456	4.400	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
457	4.300	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
458	4.200	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
459	4.100	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
460	4.000	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
461	3.900	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
462	3.800	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
463	3.700	8.80	15.55	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
464	3.600	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
465	3.500	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
466	3.400	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
467	3.300	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
468	3.200	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
469	3.100	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
470	3.000	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
471	2.900	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
472	2.800	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
473	2.700	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
474	2.600	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
475	2.500	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
476	2.400	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
477	2.300	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
478	2.200	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
479	2.100	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
480	2.000	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
481	1.900	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
482	1.800	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
483	1.700	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
484	1.600	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
485	1.500	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
486	1.400	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
487	1.300	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
488	1.200	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
489	1.100	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
490	1.000	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
491	0.900	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
492	0.800	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
493	0.700	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
494	0.600	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
495	0.500	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
496	0.400	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
497	0.300	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
498	0.200	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
499	0.100	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
500	0.000	8.78	25.83	0.09	0.05	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.03	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			20.70	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
436	6.400	21.66	0.00	10.40	95.61	7.09	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.04	0.00	0.	0.00
437	6.300	21.66	0.00	10.40	95.61	7.83	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.08	0.00	0.	0.00
438	6.200	21.66	0.00	10.40	95.61	8.01	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.12	0.00	0.	0.00
439	6.100	21.66	0.00	10.40	95.61	8.05	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.16	0.00	0.	0.00
440	6.000	21.66	0.00	10.40	95.61	8.06	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.20	0.00	0.	0.00
441	5.900	21.66	0.00	10.40	95.61	8.06	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.24	0.00	0.	0.00
442	5.800	21.66	0.04	15.09	157.28	7.87	11.96	0.00	11.96	0.00	7.18	0.00	0.00	0.00	0.00	0.28	0.00	0.	0.00
443	5.700	21.66	0.04	15.09	157.28	7.97	11.72	0.00	11.72	0.00	7.08	0.00	0.00	0.00	0.00	0.32	0.00	0.	0.00
444	5.600	21.66	0.04	15.09	157.28	8.00	11.48	0.00	11.48	0.00	6.99	0.00	0.00	0.00	0.00	0.36	0.00	0.	0.00
445	5.500	21.66	0.04	15.09	157.28	8.01	11.25	0.00	11.25	0.00	6.89	0.00	0.00	0.00	0.00	0.40	0.00	0.	0.00
446	5.400	21.66	0.04	15.09	157.28	8.01	11.02	0.00	11.02	0.00	6.80	0.00	0.00	0.00	0.00	0.44	0.00	0.	0.00
447	5.300	21.66	0.04	15.09	157.28	8.01	10.80	0.00	10.80	0.00	6.71	0.00	0.00	0.00	0.00	0.48	0.00	0.	0.00
448	5.200	21.66	0.04	15.09	157.28	8.01	10.58	0.00	10.58	0.00	6.62	0.00	0.00	0.00	0.00	0.52	0.00	0.	0.00
449	5.100	21.66	0.04	15.09	157.28	8.02	10.37	0.00	10.37	0.00	6.53	0.00	0.00	0.00	0.00	0.56	0.00	0.	0.00
450	5.000	21.66	0.04	15.09	157.28	8.02	10.17	0.00	10.17	0.00	6.44	0.00	0.00	0.00	0.00	0.60	0.00	0.	0.00
451	4.900	21.66	0.04	15.09	157.28	8.02	9.97	0.00	9.97	0.00	6.36	0.00	0.00	0.00	0.00	0.64	0.00	0.	0.00
452	4.800	21.66	0.04	15.09	157.28	8.02	9.77	0.00	9.77	0.00	6.28	0.00	0.00	0.00	0.00	0.68	0.00	0.	0.00
453	4.700	21.66	0.04	15.09	157.28	8.02	9.58	0.00	9.58	0.00	6.19	0.00	0.00	0.00	0.00	0.72	0.00	0.	0.00
454	4.600	21.66	0.04	15.09	157.28	8.02	9.40	0.00	9.40	0.00	6.11	0.00	0.00	0.00	0.00	0.76	0.00	0.	0.00
455	4.500	21.66	0.04	15.09	157.28	8.02	9.22	0.00	9.22	0.00	6.03	0.00	0.00	0.00	0.00	0.80	0.00	0.	0.00
456	4.400	21.66	0.04	15.09	157.28	8.02	9.04	0.00	9.04	0.00	5.95	0.00	0.00	0.00	0.00	0.84	0.00	0.	0.00
457	4.300	21.66	0.04	15.09	157.28	8.03	8.87	0.00	8.87	0.00	5.88	0.00	0.00	0.00	0.00	0.88	0.00	0.	0.00
458	4.200	21.66	0.04	15.09	157.28	8.03	8.71	0.00	8.71	0.00	5.80	0.00	0.00	0.00	0.00	0.92	0.00	0.	0.00
459	4.100	21.66	0.04	15.09	157.28	8.03	8.54	0.00	8.54	0.00	5.72	0.00	0.00	0.00	0.00	0.96	0.00	0.	0.00
460	4.000	21.66	0.04	15.09	157.28	8.03	8.38	0.00	8.38	0.00	5.65	0.00	0.00	0.00	0.00	1.00	0.00	0.	0.00
461	3.900	21.66	0.04	15.09	157.28	8.03	8.23	0.00	8.23	0.00	5.58	0.00	0.00	0.00	0.00	1.04	0.00	0.	0.00
462	3.800	21.66	0.04	15.09	157.28	8.03	8.08	0.00	8.08	0.00	5.51	0.00	0.00	0.00	0.00	1.08	0.00	0.	0.00
463	3.700	21.66	0.04	15.09	157.28	8.03	7.93	0.00	7.93	0.00	5.44	0.00	0.00	0.00	0.00	1.12	0.00	0.	0.00
464	3.600	21.66	0.33	53.38	660.25	4.53	21.36	0.00	21.36	0.00	38.97	0.00	0.00	0.00	0.00	1.16	0.00	0.	0.00
465	3.500	21.66	0.33	53.38	660.25	5.78	21.30	0.00	21.30	0.00	38.91	0.00	0.00	0.00	0.00	1.20	0.00	0.	0.00
466	3.400	21.66	0.33	53.38	660.25	6.61	21.25	0.00	21.25	0.00	38.84	0.00	0.00	0.00	0.00	1.24	0.00	0.	0.00
467	3.300	21.66	0.33	53.38	660.25	7.16	21.20	0.00	21.20	0.00	38.78	0.00	0.00	0.00	0.00	1.28	0.00	0.	0.00
468	3.200	21.66	0.33	53.38	660.25	7.52	21.15	0.00	21.15	0.00	38.72	0.00	0.00	0.00	0.00	1.32	0.00	0.	0.00
469	3.100	21.66	0.33	53.38	660.25	7.76	21.10	0.00	21.10	0.00	38.65	0.00	0.00	0.00	0.00	1.36	0.00	0.	0.00
470	3.000	21.66	0.33	53.38	660.25	7.92	21.05	0.00	21.05	0.00	38.59	0.00	0.00	0.00	0.00	1.40	0.00	0.	0.00
471	2.900	21.66	0.33	53.38	660.25	8.03	20.99	0.00	20.99	0.00	38.53	0.00	0.00	0.00	0.00	1.44	0.00	0.	0.00
472	2.800	21.66	0.33	53.38	660.25	8.10	20.94	0.00	20.94	0.00	38.46	0.00	0.00	0.00	0.00	1.48	0.00	0.	0.00
473	2.700	21.66	0.33	53.38	660.25	8.15	20.89	0.00	20.89	0.00	38.40	0.00	0.00	0.00	0.00	1.52	0.00	0.	0.00
474	2.600	21.66	0.33	53.38	660.25	8.18	20.84	0.00	20.84	0.00	38.34	0.00	0.00	0.00	0.00	1.56	0.00	0.	0.00
475	2.500	21.66	0.33	53.38	660.25	8.20	20.79	0.00	20.79	0.00	38.28	0.00	0.00	0.00	0.00	1.60	0.00	0.	0.00
476	2.400	21.66	0.33	53.38	660.25	8.21	20.74	0.00	20.74	0.00	38.21	0.00	0.00	0.00	0.00	1.64	0.00	0.	0.00
477	2.300	21.66	0.33	53.38	660.25	8.22	20.69	0.00	20.69	0.00	38.15	0.00	0.00	0.00	0.00	1.68	0.00	0.	0.00
478	2.200	21.66	0.33	53.38	660.25	8.23	20.64	0.00	20.64	0.00	38.09	0.00	0.00	0.00	0.00	1.72	0.00	0.	0.00
479	2.100	21.66	0.33	53.38	660.25	8.23	20.59	0.00	20.59	0.00	38.03	0.00	0.00	0.00	0.00	1.76	0.00	0.	0.00
480	2.000	21.66	0.33	53.38	660.25	8.23	20.54	0.00	20.54	0.00	37.96	0.00	0.00	0.00	0.00	1.80	0.00	0.	0.00
481	1.900	21.66	0.33	53.38	660.25	8.24	20.49	0.00	20.49	0.00	37.90	0.00	0.00	0.00	0.00	1.84	0.00	0.	0.00
482	1.800	21.66	0.33	53.38	660.25	8.24	20.44	0.00	20.44	0.00	37.84	0.00	0.00	0.00	0.00	1.88	0.00	0.	0.00
483	1.700	21.66	0.33	53.38	660.25	8.24	20.39	0.00	20.39	0.00	37.78	0.00	0.00	0.00	0.00	1.92	0.00	0.	0.00
484	1.600	21.66	0.33	53.38	660.25	8.24	20.34	0.00	20.34	0.00	37.72	0.00	0.00	0.00	0.00	1.96	0.00	0.	0.00
485	1.500	21.66	0.33	53.38	660.25	8.24	20.29	0.00	20.29	0.00	37.65	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
486	1.400	21.66	0.33	53.38	660.25	8.24	20.24	0.00	20.24	0.00	37.59	0.00	0.00	0.00	0.00	2.04	0.00	0.	0.00
487	1.300	21.66	0.33	53.38	660.25	8.24	20.20	0.00	20.20	0.00	37.53	0.00	0.00	0.00	0.00	2.08	0.00	0.	0.00
488	1.200	21.66	0.33	53.38	660.25	8.24	20.15	0.00	20.15	0.00	37.47	0.00	0.00	0.00	0.00	2.12	0.00	0.	0.00
489	1.100	21.66	0.33	53.38	660.25	8.24	20.10	0.00	20.10	0.00	37.41	0.00	0.00	0.00	0.00	2.16	0.00	0.	0.00
490	1.000	21.66	0.33	53.38	660.25	8.24	20.05	0.00	20.05	0.00	37.35	0.00	0.00	0.00	0.00	2.20	0.00	0.	0.00
491	0.900	21.66	0.33	53.38	660.25	8.24	20.00	0.00	20.00	0.00	37.29	0.00	0.00	0.00	0.00	2.24	0.00	0.	0.00
492	0.800	21.66	0.33	53.38	660.25	8.24	19.95	0.00	19.95	0.00	37.23	0.00	0.00	0.00	0.00	2.28	0.00	0.	0.00
493	0.700	21.66	0.33	53.38	660.25	8.24	19.90	0.00	19.90	0.00	37.16	0.00	0.00	0.00	0.00	2.32	0.00	0.	0.00
494	0.600	21.66	0.33	53.38	660.25	8.24	19.86	0.00	19.86	0.00	37.10	0.00	0.00	0.00	0.00	2.36	0.00	0.	0.00
495	0.500	21.66	0.33	53.38	660.25	8.24	19.81	0.00	19.81	0.00	37.04	0.00	0.00	0.00	0.00	2.40	0.00	0.	0.00
496	0.400	21.66	0.33	53.38	660.25	8.24	19.76	0.00	19.76	0.00	36.98	0.00	0.00	0.00	0.00	2.44	0.00	0.	0.00
497	0.300	21.66	0.33	53.38	660.25	8.24	19.71	0.00	19.71	0.00	36.92	0.00	0.00	0.00	0.00	2.48	0.00	0.	0.00
498	0.200	21.66	0.33	53.38	660.25	8.24	19.67	0.00	19.67	0.00	36.86	0.00	0.00	0.00	0.00	2.52	0.00	0.	0.00
499	0.100	21.66	0.33	53.38	660.25	8.25	19.62	0.00	19.62	0.00	36.80	0.00	0.00	0.00	0.00	2.56	0.00	0.	0.00
500	0.000	21.66	0.33	53.38	660.25	8.25	19.57	0.00	19.57	0.00	36.74	0.00	0.00	0.00	0.00	2.60	0.00	0.	0.00

STREAM SUMMARY
Dich#8Hwy434/I-12BBB

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME = 6.07 DAYS

MAXIMUM EFFLUENT = 90.47 PERCENT

FLOW = 0.00028 TO 0.00294 m³/s

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DISPERSION        =   0.0000  TO    0.0000    m²/s
VELOCITY          =   0.00560 TO    0.05879   m/s
DEPTH             =   0.05    TO    0.05      m
WIDTH             =   1.00    TO    1.00      m

BOD DECAY         =    0.09   TO    0.09      per day
NH3 DECAY         =    0.00   TO    0.00      per day
SOD               =    0.56   TO    0.56      g/m²/d
NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
REAERATION        =   15.37   TO   25.83      per day
BOD SETTLING      =    0.05   TO    0.05      per day
NBOD DECAY        =    0.03   TO    0.03      per day
NBOD SETTLING     =    0.05   TO    0.05      per day

TEMPERATURE       =   21.66   TO   21.66      deg C
DISSOLVED OXYGEN  =    4.53   TO    8.25      mg/L


FINAL REPORT    Ditch #9 Folger                                BAYOU LACOMBE WATERSHED MODEL
REACH NO. 24    Folger Ditch                                   CALIBRATION

 ******************************************************** REACH INPUTS ********************************************************

 ELEM  TYPE        FLOW     TEMP     SALN chloride  conduct     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt     mg/L    uS/cm   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL

  521  HDWTR     0.00028   21.66     0.00    10.40    95.61   4.00   2.20   0.00   2.20   0.00   1.00   0.00   0.00   0.00   0.00     0.00    0.00
  522  WSTLD     0.00018   30.60     0.37    57.90   719.70   2.00  69.00   0.00  69.00   0.00  64.50   0.00   0.00   0.00   0.00     0.00    0.00

 ************************************************ HYDRAULIC PARAMETER VALUES ************************************************

 ELEM   BEGIN  ENDING       FLOW   PCT   ADVCTV    TRAVEL   DEPTH   WIDTH    VOLUME    SURFACE  X-SECT     TIDAL   TIDAL   DISPRSN    MEAN
  NO.    DIST    DIST                 EFF     VELO      TIME                                 AREA    AREA     PRISM    VELO              VELO
          km      km        m³/s              m/s      days       m       m        m³        m²      m²        m³     m/s     m²/s     m/s

  521    0.40    0.30    0.00028   0.0   0.00560      0.21    0.05    1.00      5.00    100.00    0.05      0.00   0.000    0.000   0.006
  522    0.30    0.20    0.00046  38.5   0.00911      0.13    0.05    1.00      5.00    100.00    0.05      0.00   0.000    0.000   0.009
  523    0.20    0.10    0.00046  38.5   0.00911      0.13    0.05    1.00      5.00    100.00    0.05      0.00   0.000    0.000   0.009
  524    0.10    0.00    0.00046  38.5   0.00911      0.13    0.05    1.00      5.00    100.00    0.05      0.00   0.000    0.000   0.009

  TOT                                               0.59                     20.00    400.00
  AVG                                     0.0079            0.05    1.00                       0.05
  CUM                                               0.59

 ********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************

 ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN    NH3   NH3  DENIT   PO4   ALG   MAC   COLI    NCM    NCM
 NO.     DIST  D.O.    RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
                mg/L    1/da   1/da  1/da   1/da   1/da  1/da   1/da     *     *     *    1/da  1/da   1/da     *    1/da     *    **    **    1/da   1/da   1/da

 521    0.300  8.80   15.37   0.09  0.05   0.00   0.00  0.00   0.00  0.56  0.56  0.56   0.03  0.05   0.00  0.00   0.00  0.00  0.04  0.00   0.00   0.00   0.00
 522    0.200  8.79   16.41   0.09  0.05   0.00   0.00  0.00   0.00  0.56  0.56  0.56   0.03  0.05   0.00  0.00   0.00  0.00  0.07  0.00   0.00   0.00   0.00
 523    0.100  8.79   16.41   0.09  0.05   0.00   0.00  0.00   0.00  0.56  0.56  0.56   0.03  0.05   0.00  0.00   0.00  0.00  0.11  0.00   0.00   0.00   0.00
 524    0.000  8.79   16.41   0.09  0.05   0.00   0.00  0.00   0.00  0.56  0.56  0.56   0.03  0.05   0.00  0.00   0.00  0.00  0.14  0.00   0.00   0.00   0.00

 AVG 20 DEG C RATE    15.63   0.08  0.05   0.00   0.00  0.00   0.00  0.50               0.03  0.05   0.00  0.00   0.00  0.00                0.00   0.00   0.00

 *   g/m²/d            **   mg/L/day

 ********************************************** WATER QUALITY CONSTITUENT VALUES **********************************************

 ELEM  ENDING   TEMP  SALN chloride  conduct    DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   TOTN   PHOS  CHL A   MACRO     COLI     NCM
 NO.     DIST  DEG C   PPT     mg/L    uS/cm  mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L    g/m³  #/100mL

 521    0.300  21.66  0.00    10.40    95.61  7.09   2.19   0.00   2.19   0.00   1.00   0.00   0.00   0.00   0.00   0.65    0.00       0.    0.00
 522    0.200  21.66  0.14    28.69   335.90  7.02  27.46   0.00  27.46   0.00  25.19   0.00   0.00   0.00   0.00   1.30    0.00       0.    0.00
 523    0.100  21.66  0.14    28.69   335.90  7.64  27.02   0.00  27.02   0.00  24.93   0.00   0.00   0.00   0.00   1.95    0.00       0.    0.00
 524    0.000  21.66  0.14    28.69   335.90  7.84  26.58   0.00  26.58   0.00  24.68   0.00   0.00   0.00   0.00   2.60    0.00       0.    0.00


STREAM SUMMARY                                                  BAYOU LACOMBE WATERSHED MODEL
Ditch #9 Folger                                                 CALIBRATION

 TRAVEL TIME       =           0.59 DAYS

 MAXIMUM EFFLUENT  =          38.50 PERCENT

 FLOW              =   0.00028 TO    0.00046   m³/s
 DISPERSION        =   0.0000  TO    0.0000    m²/s
 VELOCITY          =   0.00560 TO    0.00911   m/s
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DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.56	TO	0.56	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.37	TO	16.41	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.03	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	21.66	TO	21.66	deg C
DISSOLVED OXYGEN	=	7.02	TO	7.84	mg/L

FINAL REPORT Ditch A BerryTodd Rd — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 27 Berry Todd Rd Ditch — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
564	HDWTR	0.00028	21.66	0.00	10.40	95.61	4.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
565	WSTLD	0.00245	30.60	0.37	57.90	719.70	2.00	57.50	0.00	57.50	0.00	86.00	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
564	2.00	1.90	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
565	1.90	1.80	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
566	1.80	1.70	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
567	1.70	1.60	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
568	1.60	1.50	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
569	1.50	1.40	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
570	1.40	1.30	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
571	1.30	1.20	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
572	1.20	1.10	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
573	1.10	1.00	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
574	1.00	0.90	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
575	0.90	0.80	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
576	0.80	0.70	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
577	0.70	0.60	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
578	0.60	0.50	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
579	0.50	0.40	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
580	0.40	0.30	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
581	0.30	0.20	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
582	0.20	0.10	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
583	0.10	0.00	0.00273	89.8	0.05467	0.02	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.055
TOT						0.61			100.00	2000.00					
AVG					0.0380		0.05	1.00			0.05				
CUM						0.61									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
564	1.900	8.56	15.80	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
565	1.800	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
566	1.700	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.03	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
567	1.600	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
568	1.500	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
569	1.400	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
570	1.300	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
571	1.200	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
572	1.100	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
573	1.000	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
574	0.900	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
575	0.800	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
576	0.700	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
577	0.600	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
578	0.500	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
579	0.400	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
580	0.300	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00

581	0.200	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
582	0.100	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
583	0.000	8.55	26.55	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			24.49	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
564	1.900	23.10	0.00	10.40	95.61	6.89	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.72	0.00	0.	0.00
565	1.800	23.10	0.33	53.03	655.77	4.41	51.68	0.00	51.68	0.00	77.15	0.00	0.00	0.00	0.00	1.44	0.00	0.	0.00
566	1.700	23.10	0.33	53.03	655.77	5.64	51.53	0.00	51.53	0.00	77.01	0.00	0.00	0.00	0.00	2.16	0.00	0.	0.00
567	1.600	23.10	0.33	53.03	655.77	6.42	51.38	0.00	51.38	0.00	76.87	0.00	0.00	0.00	0.00	2.88	0.00	0.	0.00
568	1.500	23.10	0.33	53.03	655.77	6.92	51.23	0.00	51.23	0.00	76.72	0.00	0.00	0.00	0.00	3.60	0.00	0.	0.00
569	1.400	23.10	0.33	53.03	655.77	7.24	51.08	0.00	51.08	0.00	76.58	0.00	0.00	0.00	0.00	4.32	0.00	0.	0.00
570	1.300	23.10	0.33	53.03	655.77	7.45	50.93	0.00	50.93	0.00	76.44	0.00	0.00	0.00	0.00	5.04	0.00	0.	0.00
571	1.200	23.10	0.33	53.03	655.77	7.58	50.78	0.00	50.78	0.00	76.29	0.00	0.00	0.00	0.00	5.76	0.00	0.	0.00
572	1.100	23.10	0.33	53.03	655.77	7.67	50.63	0.00	50.63	0.00	76.15	0.00	0.00	0.00	0.00	6.48	0.00	0.	0.00
573	1.000	23.10	0.33	53.03	655.77	7.72	50.48	0.00	50.48	0.00	76.01	0.00	0.00	0.00	0.00	7.20	0.00	0.	0.00
574	0.900	23.10	0.33	53.03	655.77	7.76	50.33	0.00	50.33	0.00	75.86	0.00	0.00	0.00	0.00	7.92	0.00	0.	0.00
575	0.800	23.10	0.33	53.03	655.77	7.78	50.18	0.00	50.18	0.00	75.72	0.00	0.00	0.00	0.00	8.64	0.00	0.	0.00
576	0.700	23.10	0.33	53.03	655.77	7.80	50.04	0.00	50.04	0.00	75.58	0.00	0.00	0.00	0.00	9.36	0.00	0.	0.00
577	0.600	23.10	0.33	53.03	655.77	7.81	49.89	0.00	49.89	0.00	75.43	0.00	0.00	0.00	0.00	10.08	0.00	0.	0.00
578	0.500	23.10	0.33	53.03	655.77	7.82	49.74	0.00	49.74	0.00	75.29	0.00	0.00	0.00	0.00	10.80	0.00	0.	0.00
579	0.400	23.10	0.33	53.03	655.77	7.83	49.60	0.00	49.60	0.00	75.15	0.00	0.00	0.00	0.00	11.52	0.00	0.	0.00
580	0.300	23.10	0.33	53.03	655.77	7.83	49.45	0.00	49.45	0.00	75.01	0.00	0.00	0.00	0.00	12.24	0.00	0.	0.00
581	0.200	23.10	0.33	53.03	655.77	7.83	49.30	0.00	49.30	0.00	74.87	0.00	0.00	0.00	0.00	12.96	0.00	0.	0.00
582	0.100	23.10	0.33	53.03	655.77	7.84	49.16	0.00	49.16	0.00	74.72	0.00	0.00	0.00	0.00	13.68	0.00	0.	0.00
583	0.000	23.10	0.33	53.03	655.77	7.84	49.02	0.00	49.02	0.00	74.58	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00

STREAM SUMMARY
Ditch A BerryTodd Rd

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME = 0.61 DAYS

MAXIMUM EFFLUENT = 89.76 PERCENT

FLOW	=	0.00028	TO	0.00273	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.05467	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.61	TO	0.61	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.80	TO	26.55	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.03	TO	0.04	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	23.10	TO	23.10	deg C
DISSOLVED OXYGEN	=	4.41	TO	7.84	mg/L

FINAL REPORT Ditch B Hwy 190 BBB
REACH NO. 29 Hwy 190 Ditch BBB

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
595	HDWTR	0.00028	21.66	0.00	10.40	95.61	4.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
596	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
602	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
595	1.30	1.20	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
596	1.20	1.10	0.00029	1.9	0.00571	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006

597	1.10	1.00	0.00029	1.9	0.00571	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
598	1.00	0.90	0.00029	1.9	0.00571	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
599	0.90	0.80	0.00029	1.9	0.00571	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
600	0.80	0.70	0.00029	1.9	0.00571	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
601	0.70	0.60	0.00029	1.9	0.00571	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
602	0.60	0.50	0.00029	2.2	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
603	0.50	0.40	0.00029	2.2	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
604	0.40	0.30	0.00029	2.2	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
605	0.30	0.20	0.00029	2.2	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
606	0.20	0.10	0.00029	2.2	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
607	0.10	0.00	0.00029	2.2	0.00572	0.20	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
TOT						2.64			65.00	1300.00					
AVG					0.0057		0.05	1.00			0.05				
CUM						2.64									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
595	1.200	8.56	15.80	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
596	1.100	8.56	15.83	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
597	1.000	8.56	15.83	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
598	0.900	8.56	15.83	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
599	0.800	8.56	15.83	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
600	0.700	8.56	15.83	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
601	0.600	8.56	15.83	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
602	0.500	8.56	15.84	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
603	0.400	8.56	15.84	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
604	0.300	8.56	15.84	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
605	0.200	8.56	15.84	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
606	0.100	8.56	15.84	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
607	0.000	8.56	15.84	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			14.91	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* $g/m^2/d$ ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NCM
595	1.200	23.10	0.00	10.40	95.61	6.89	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	1.11	0.00	0.	0.00
596	1.100	23.10	0.01	11.28	107.20	7.54	4.02	0.00	4.02	0.00	2.16	0.00	0.00	0.00	0.00	2.22	0.00	0.	0.00
597	1.000	23.10	0.01	11.28	107.20	7.72	3.97	0.00	3.97	0.00	2.14	0.00	0.00	0.00	0.00	3.32	0.00	0.	0.00
598	0.900	23.10	0.01	11.28	107.20	7.77	3.91	0.00	3.91	0.00	2.12	0.00	0.00	0.00	0.00	4.43	0.00	0.	0.00
599	0.800	23.10	0.01	11.28	107.20	7.78	3.86	0.00	3.86	0.00	2.10	0.00	0.00	0.00	0.00	5.54	0.00	0.	0.00
600	0.700	23.10	0.01	11.28	107.20	7.79	3.81	0.00	3.81	0.00	2.08	0.00	0.00	0.00	0.00	6.65	0.00	0.	0.00
601	0.600	23.10	0.01	11.28	107.20	7.79	3.76	0.00	3.76	0.00	2.06	0.00	0.00	0.00	0.00	7.75	0.00	0.	0.00
602	0.500	23.10	0.01	11.43	109.13	7.79	4.02	0.00	4.02	0.00	2.23	0.00	0.00	0.00	0.00	8.86	0.00	0.	0.00
603	0.400	23.10	0.01	11.43	109.13	7.80	3.97	0.00	3.97	0.00	2.21	0.00	0.00	0.00	0.00	9.97	0.00	0.	0.00
604	0.300	23.10	0.01	11.43	109.13	7.80	3.91	0.00	3.91	0.00	2.19	0.00	0.00	0.00	0.00	11.08	0.00	0.	0.00
605	0.200	23.10	0.01	11.43	109.13	7.81	3.86	0.00	3.86	0.00	2.17	0.00	0.00	0.00	0.00	12.18	0.00	0.	0.00
606	0.100	23.10	0.01	11.43	109.13	7.81	3.81	0.00	3.81	0.00	2.15	0.00	0.00	0.00	0.00	13.29	0.00	0.	0.00
607	0.000	23.10	0.01	11.43	109.13	7.82	3.76	0.00	3.76	0.00	2.13	0.00	0.00	0.00	0.00	14.40	0.00	0.	0.00

STREAM SUMMARY
Ditch B Hwy 190 BBB

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME = 2.64 DAYS

MAXIMUM EFFLUENT = 2.17 PERCENT

FLOW	=	0.00028	TO	0.00029	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00560	TO	0.00572	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.61	TO	0.61	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	15.80	TO	15.84	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.04	TO	0.04	per day
NBOD SETTLING	=	0.05	TO	0.05	per day

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TEMPERATURE       =   23.10   TO   23.10      deg C
DISSOLVED OXYGEN  =    6.89   TO    7.82      mg/L
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FINAL REPORT Cypress Bayou — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 34 CB03 to Hwy 190 ditch CB — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
650	HDWTR	0.02300	23.25	0.14	22.50	286.90	1.53	16.39	0.00	16.39	0.00	2.55	0.00	0.00	0.00	24.60	0.00	0.00
EACH	INCR	0.06294	23.25	0.14	22.50	286.90	1.53	16.39	0.00			2.55	0.00	0.00	0.00	0.00	0.00	
651	WSTLD	0.00153	23.06	0.26	23.50	516.30	2.39	23.00	0.00	23.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
650	4.90	4.80	0.08594	0.0	0.06319	0.02	0.29	4.69	136.01	469.00	1.36	35.64	0.001	1.000	0.063
651	4.80	4.70	0.15042	1.0	0.11059	0.01	0.29	4.69	136.01	469.00	1.36	71.29	0.001	1.000	0.111
652	4.70	4.60	0.21336	0.7	0.15687	0.01	0.29	4.69	136.01	469.00	1.36	106.93	0.002	1.000	0.157
TOT						0.04			408.03	1407.00					
AVG					0.0960		0.29	4.69			1.36				
CUM						0.04									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
650	4.800	8.53	2.91	0.06	0.05	0.00	0.00	0.00	0.00	7.36	7.36	7.36	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
651	4.700	8.53	3.40	0.06	0.05	0.00	0.00	0.00	0.00	7.36	7.36	7.36	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
652	4.600	8.53	3.74	0.06	0.05	0.00	0.00	0.00	0.00	7.36	7.36	7.36	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			3.14	0.07	0.05	0.00	0.00	0.00	0.00	6.00			0.14	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
650	4.800	23.25	0.14	22.50	287.21	1.45	16.36	0.00	16.36	0.00	2.60	0.00	0.00	0.00	0.00	24.60	0.00	0.	0.00
651	4.700	23.25	0.14	22.51	289.18	1.48	16.41	0.00	16.41	0.00	2.95	0.00	0.00	0.00	0.00	24.60	0.00	0.	0.00
652	4.600	23.25	0.14	22.51	288.57	1.51	16.42	0.00	16.42	0.00	2.84	0.00	0.00	0.00	0.00	24.60	0.00	0.	0.00

FINAL REPORT Cypress Bayou — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 36 Hwy 190 Ditch CB to CB02 — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
669	UPR RCH	0.21336	23.25	0.14	22.51	288.57	1.51	16.42	0.00	16.42	0.00	2.84	0.00	0.00	0.00	24.60	0.00	0.00
669	TRIB	0.00037	23.25	0.20	31.14	392.53	7.72	20.03	0.00	20.03	0.00	13.64	0.00	0.00	0.00	24.60	0.00	0.00
674	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
677	WSTLD	0.00022	30.60	0.37	57.90	719.70	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
669	4.60	4.50	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	160.40	0.003	3.500	0.157
670	4.50	4.40	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	213.86	0.003	3.500	0.157
671	4.40	4.30	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	267.33	0.004	3.500	0.157
672	4.30	4.20	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	320.80	0.005	3.500	0.157
673	4.20	4.10	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	374.26	0.006	3.500	0.157

674	4.10	4.00	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	427.73	0.007	3.500	0.157
675	4.00	3.90	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	481.19	0.008	3.500	0.157
676	3.90	3.80	0.21373	0.8	0.15714	0.01	0.29	4.69	136.01	469.00	1.36	534.66	0.009	3.500	0.157
677	3.80	3.70	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	588.13	0.010	3.500	0.157
678	3.70	3.60	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	641.59	0.010	3.500	0.157
679	3.60	3.50	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	695.06	0.011	3.500	0.157
680	3.50	3.40	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	748.52	0.012	3.500	0.157
681	3.40	3.30	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	801.99	0.013	3.500	0.157
682	3.30	3.20	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	855.46	0.014	3.500	0.157
683	3.20	3.10	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	908.92	0.015	3.500	0.157
684	3.10	3.00	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	962.39	0.016	3.500	0.157
685	3.00	2.90	0.21395	0.9	0.15730	0.01	0.29	4.69	136.01	469.00	1.36	1015.85	0.017	3.500	0.157
TOT						0.13			2312.17	7973.00					
AVG					0.1572		0.29	4.69			1.36				
CUM						0.16									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
669	4.500	8.52	3.74	0.06	0.05	0.00	0.00	0.00	0.00	7.41	7.41	7.41	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
670	4.400	8.50	3.75	0.06	0.05	0.00	0.00	0.00	0.00	7.45	7.45	7.45	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
671	4.300	8.49	3.76	0.06	0.05	0.00	0.00	0.00	0.00	7.49	7.49	7.49	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
672	4.200	8.47	3.76	0.06	0.05	0.00	0.00	0.00	0.00	7.54	7.54	7.54	0.04	0.05	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
673	4.100	8.46	3.77	0.06	0.05	0.00	0.00	0.00	0.00	7.58	7.58	7.58	0.04	0.05	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
674	4.000	8.44	3.78	0.06	0.05	0.00	0.00	0.00	0.00	7.63	7.63	7.63	0.04	0.05	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
675	3.900	8.43	3.78	0.06	0.05	0.00	0.00	0.00	0.00	7.67	7.67	7.67	0.04	0.05	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
676	3.800	8.41	3.79	0.06	0.05	0.00	0.00	0.00	0.00	7.72	7.72	7.72	0.04	0.05	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
677	3.700	8.40	3.80	0.06	0.06	0.00	0.00	0.00	0.00	7.76	7.76	7.76	0.04	0.06	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
678	3.600	8.38	3.80	0.06	0.06	0.00	0.00	0.00	0.00	7.81	7.81	7.81	0.04	0.06	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
679	3.500	8.37	3.81	0.06	0.06	0.00	0.00	0.00	0.00	7.86	7.86	7.86	0.04	0.06	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
680	3.400	8.35	3.82	0.06	0.06	0.00	0.00	0.00	0.00	7.90	7.90	7.90	0.04	0.06	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
681	3.300	8.34	3.82	0.06	0.06	0.00	0.00	0.00	0.00	7.95	7.95	7.95	0.04	0.06	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
682	3.200	8.32	3.83	0.06	0.06	0.00	0.00	0.00	0.00	8.00	8.00	8.00	0.04	0.06	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
683	3.100	8.31	3.84	0.06	0.06	0.00	0.00	0.00	0.00	8.04	8.04	8.04	0.04	0.06	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
684	3.000	8.30	3.84	0.06	0.06	0.00	0.00	0.00	0.00	8.09	8.09	8.09	0.03	0.06	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
685	2.900	8.28	3.85	0.05	0.06	0.00	0.00	0.00	0.00	8.14	8.14	8.14	0.01	0.06	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			3.51	0.07	0.05	0.00	0.00	0.00	0.00	6.00			0.14	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
669	4.500	23.34	0.14	22.52	288.73	1.52	16.63	0.00	16.63	0.00	2.85	0.00	0.00	0.00	0.00	24.48	0.00	0.	0.00
670	4.400	23.44	0.14	22.52	288.73	1.53	16.83	0.00	16.83	0.00	2.85	0.00	0.00	0.00	0.00	24.36	0.00	0.	0.00
671	4.300	23.53	0.14	22.52	288.73	1.53	17.02	0.00	17.02	0.00	2.85	0.00	0.00	0.00	0.00	24.25	0.00	0.	0.00
672	4.200	23.62	0.14	22.52	288.73	1.53	17.21	0.00	17.21	0.00	2.85	0.00	0.00	0.00	0.00	24.13	0.00	0.	0.00
673	4.100	23.72	0.14	22.52	288.73	1.53	17.40	0.00	17.40	0.00	2.85	0.00	0.00	0.00	0.00	24.01	0.00	0.	0.00
674	4.000	23.81	0.14	22.52	288.74	1.53	17.60	0.00	17.60	0.00	2.85	0.00	0.00	0.00	0.00	23.89	0.00	0.	0.00
675	3.900	23.90	0.14	22.52	288.75	1.53	17.79	0.00	17.79	0.00	2.84	0.00	0.00	0.00	0.00	23.78	0.00	0.	0.00
676	3.800	24.00	0.14	22.53	288.82	1.53	17.99	0.00	17.99	0.00	2.85	0.00	0.00	0.00	0.00	23.66	0.00	0.	0.00
677	3.700	24.09	0.14	22.56	289.18	1.53	18.22	0.00	18.22	0.00	2.90	0.00	0.00	0.00	0.00	23.54	0.00	0.	0.00
678	3.600	24.19	0.14	22.56	289.18	1.52	18.41	0.00	18.41	0.00	2.90	0.00	0.00	0.00	0.00	23.42	0.00	0.	0.00
679	3.500	24.28	0.14	22.56	289.18	1.51	18.60	0.00	18.60	0.00	2.90	0.00	0.00	0.00	0.00	23.31	0.00	0.	0.00
680	3.400	24.37	0.14	22.56	289.18	1.51	18.79	0.00	18.79	0.00	2.90	0.00	0.00	0.00	0.00	23.19	0.00	0.	0.00
681	3.300	24.47	0.14	22.56	289.18	1.50	18.98	0.00	18.98	0.00	2.89	0.00	0.00	0.00	0.00	23.07	0.00	0.	0.00
682	3.200	24.56	0.14	22.56	289.19	1.49	19.18	0.00	19.18	0.00	2.89	0.00	0.00	0.00	0.00	22.95	0.00	0.	0.00
683	3.100	24.65	0.14	22.58	289.23	1.47	19.38	0.00	19.38	0.00	2.89	0.00	0.00	0.00	0.00	22.84	0.00	0.	0.00
684	3.000	24.75	0.14	22.70	289.46	1.41	19.63	0.00	19.63	0.00	2.87	0.00	0.00	0.00	0.00	22.72	0.00	0.	0.00
685	2.900	24.84	0.14	23.33	290.75	1.12	20.16	0.00	20.16	0.00	2.81	0.00	0.00	0.00	0.00	22.60	0.00	0.	0.00

FINAL REPORT Cypress Bayou BAYOU LACOMBE WATERSHED MODEL
REACH NO. 37 CB02 to CB01 CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
686	UPR RCH	0.21395	24.84	0.14	23.33	290.75	1.12	20.16	0.00	20.16	0.00	2.81	0.00	0.00	0.00	22.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
686	2.90	2.80	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	1228.96	0.001	5.500	0.011
687	2.80	2.70	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	1442.06	0.002	5.500	0.011
688	2.70	2.60	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	1655.17	0.002	5.500	0.011
689	2.60	2.50	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	1868.27	0.002	5.500	0.011
690	2.50	2.40	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	2081.37	0.002	5.500	0.011
691	2.40	2.30	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	2294.48	0.003	5.500	0.011
692	2.30	2.20	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	2507.58	0.003	5.500	0.011
693	2.20	2.10	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	2720.69	0.003	5.500	0.011
694	2.10	2.00	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	2933.79	0.003	5.500	0.011
695	2.00	1.90	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	3146.89	0.004	5.500	0.011
696	1.90	1.80	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	3360.00	0.004	5.500	0.011
697	1.80	1.70	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	3573.10	0.004	5.500	0.011
698	1.70	1.60	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	3786.21	0.004	5.500	0.011
699	1.60	1.50	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	3999.31	0.005	5.500	0.011
700	1.50	1.40	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	4212.41	0.005	5.500	0.011
701	1.40	1.30	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	4425.52	0.005	5.500	0.011
702	1.30	1.20	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	4638.62	0.005	5.500	0.011
703	1.20	1.10	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	4851.73	0.006	5.500	0.011
704	1.10	1.00	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	5064.83	0.006	5.500	0.011
705	1.00	0.90	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	5277.93	0.006	5.500	0.011
706	0.90	0.80	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	5491.04	0.006	5.500	0.011
707	0.80	0.70	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	5704.14	0.007	5.500	0.011
708	0.70	0.60	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	5917.25	0.007	5.500	0.011
709	0.60	0.50	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	6130.35	0.007	5.500	0.011
710	0.50	0.40	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	6343.45	0.007	5.500	0.011
711	0.40	0.30	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	6556.56	0.007	5.500	0.011
712	0.30	0.20	0.21395	0.9	0.01098	0.11	1.39	14.02	1948.78	1402.00	19.49	6769.66	0.008	5.500	0.011
TOT						2.85			52617.07	37854.00					
AVG					0.0110		1.39	14.02			19.49				
CUM						3.01									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
686	2.800	8.28	0.55	0.03	0.06	0.00	0.00	0.00	0.00	8.15	8.15	8.15	0.00	0.06	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
687	2.700	8.28	0.55	0.03	0.06	0.00	0.00	0.00	0.00	8.15	8.15	8.15	0.00	0.06	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
688	2.600	8.27	0.55	0.03	0.06	0.00	0.00	0.00	0.00	8.16	8.16	8.16	0.00	0.06	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
689	2.500	8.27	0.55	0.03	0.06	0.00	0.00	0.00	0.00	8.17	8.17	8.17	0.00	0.06	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
690	2.400	8.27	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.18	8.18	8.18	0.00	0.06	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
691	2.300	8.27	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.19	8.19	8.19	0.00	0.06	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
692	2.200	8.26	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.20	8.20	8.20	0.00	0.06	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
693	2.100	8.26	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.20	8.20	8.20	0.00	0.06	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
694	2.000	8.26	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.21	8.21	8.21	0.00	0.06	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
695	1.900	8.26	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.22	8.22	8.22	0.00	0.06	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
696	1.800	8.25	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.23	8.23	8.23	0.00	0.06	0.00	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
697	1.700	8.25	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.24	8.24	8.24	0.00	0.06	0.00	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
698	1.600	8.25	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.24	8.24	8.24	0.00	0.06	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
699	1.500	8.25	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.25	8.25	8.25	0.00	0.06	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
700	1.400	8.24	0.55	0.02	0.06	0.00	0.00	0.00	0.00	8.26	8.26	8.26	0.00	0.06	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
701	1.300	8.24	0.56	0.02	0.06	0.00	0.00	0.00	0.00	8.27	8.27	8.27	0.00	0.06	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
702	1.200	8.24	0.56	0.02	0.06	0.00	0.00	0.00	0.00	8.28	8.28	8.28	0.00	0.06	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
703	1.100	8.24	0.56	0.02	0.06	0.00	0.00	0.00	0.00	8.29	8.29	8.29	0.00	0.06	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
704	1.000	8.23	0.56	0.03	0.06	0.00	0.00	0.00	0.00	8.29	8.29	8.29	0.00	0.06	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
705	0.900	8.23	0.56	0.03	0.06	0.00	0.00	0.00	0.00	8.30	8.30	8.30	0.00	0.06	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
706	0.800	8.23	0.56	0.04	0.06	0.00	0.00	0.00	0.00	8.31	8.31	8.31	0.01	0.06	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
707	0.700	8.23	0.56	0.05	0.06	0.00	0.00	0.00	0.00	8.32	8.32	8.32	0.02	0.06	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
708	0.600	8.22	0.56	0.06	0.06	0.00	0.00	0.00	0.00	8.33	8.33	8.33	0.04	0.06	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
709	0.500	8.22	0.56	0.07	0.06	0.00	0.00	0.00	0.00	8.34	8.34	8.34	0.06	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
710	0.400	8.22	0.56	0.07	0.06	0.00	0.00	0.00	0.00	8.34	8.34	8.34	0.06	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
711	0.300	8.21	0.56	0.07	0.06	0.00	0.00	0.00	0.00	8.35	8.35	8.35	0.07	0.06	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
712	0.200	8.21	0.56	0.07	0.06	0.00	0.00	0.00	0.00	8.36	8.36	8.36	0.07	0.06	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.50	0.05	0.05	0.00	0.00	0.00	0.00	6.00			0.05	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
686	2.800	24.86	0.14	23.63	291.35	0.98	20.34	0.00	20.34	0.00	2.78	0.00	0.00	0.00	0.00	22.53	0.00	0.	0.00
687	2.700	24.87	0.14	23.84	291.79	0.91	20.45	0.00	20.45	0.00	2.76	0.00	0.00	0.00	0.00	22.45	0.00	0.	0.00

688	2.600	24.89	0.14	24.10	292.31	0.84	20.55	0.00	20.55	0.00	2.74	0.00	0.00	0.00	0.00	22.38	0.00	0.	0.00
689	2.500	24.90	0.14	24.40	292.93	0.77	20.65	0.00	20.65	0.00	2.73	0.00	0.00	0.00	0.00	22.30	0.00	0.	0.00
690	2.400	24.92	0.14	24.77	293.68	0.72	20.74	0.00	20.74	0.00	2.71	0.00	0.00	0.00	0.00	22.23	0.00	0.	0.00
691	2.300	24.94	0.14	25.21	294.58	0.66	20.83	0.00	20.83	0.00	2.69	0.00	0.00	0.00	0.00	22.16	0.00	0.	0.00
692	2.200	24.95	0.14	25.74	295.66	0.62	20.91	0.00	20.91	0.00	2.67	0.00	0.00	0.00	0.00	22.08	0.00	0.	0.00
693	2.100	24.97	0.15	26.38	296.95	0.58	20.98	0.00	20.98	0.00	2.65	0.00	0.00	0.00	0.00	22.01	0.00	0.	0.00
694	2.000	24.98	0.15	27.14	298.50	0.54	21.04	0.00	21.04	0.00	2.63	0.00	0.00	0.00	0.00	21.93	0.00	0.	0.00
695	1.900	25.00	0.15	28.06	300.36	0.51	21.08	0.00	21.08	0.00	2.61	0.00	0.00	0.00	0.00	21.86	0.00	0.	0.00
696	1.800	25.02	0.15	29.16	302.59	0.49	21.10	0.00	21.10	0.00	2.58	0.00	0.00	0.00	0.00	21.79	0.00	0.	0.00
697	1.700	25.03	0.15	30.47	305.27	0.47	21.10	0.00	21.10	0.00	2.56	0.00	0.00	0.00	0.00	21.71	0.00	0.	0.00
698	1.600	25.05	0.15	32.05	308.48	0.47	21.07	0.00	21.07	0.00	2.53	0.00	0.00	0.00	0.00	21.64	0.00	0.	0.00
699	1.500	25.06	0.15	33.95	312.33	0.47	21.00	0.00	21.00	0.00	2.50	0.00	0.00	0.00	0.00	21.56	0.00	0.	0.00
700	1.400	25.08	0.16	36.22	316.95	0.49	20.89	0.00	20.89	0.00	2.47	0.00	0.00	0.00	0.00	21.49	0.00	0.	0.00
701	1.300	25.09	0.16	38.95	322.50	0.52	20.74	0.00	20.74	0.00	2.44	0.00	0.00	0.00	0.00	21.41	0.00	0.	0.00
702	1.200	25.11	0.16	42.22	329.15	0.58	20.52	0.00	20.52	0.00	2.40	0.00	0.00	0.00	0.00	21.34	0.00	0.	0.00
703	1.100	25.13	0.17	46.14	337.13	0.66	20.24	0.00	20.24	0.00	2.36	0.00	0.00	0.00	0.00	21.27	0.00	0.	0.00
704	1.000	25.14	0.17	50.85	346.70	0.78	19.87	0.00	19.87	0.00	2.31	0.00	0.00	0.00	0.00	21.19	0.00	0.	0.00
705	0.900	25.16	0.18	56.49	358.18	0.94	19.40	0.00	19.40	0.00	2.25	0.00	0.00	0.00	0.00	21.12	0.00	0.	0.00
706	0.800	25.17	0.19	63.27	371.95	1.16	18.81	0.00	18.81	0.00	2.19	0.00	0.00	0.00	0.00	21.04	0.00	0.	0.00
707	0.700	25.19	0.20	71.39	388.47	1.46	18.09	0.00	18.09	0.00	2.12	0.00	0.00	0.00	0.00	20.97	0.00	0.	0.00
708	0.600	25.21	0.21	81.14	408.29	1.85	17.19	0.00	17.19	0.00	2.03	0.00	0.00	0.00	0.00	20.90	0.00	0.	0.00
709	0.500	25.22	0.22	92.83	432.07	2.36	16.11	0.00	16.11	0.00	1.93	0.00	0.00	0.00	0.00	20.82	0.00	0.	0.00
710	0.400	25.24	0.24	106.86	460.59	3.04	14.78	0.00	14.78	0.00	1.82	0.00	0.00	0.00	0.00	20.75	0.00	0.	0.00
711	0.300	25.25	0.26	123.69	494.81	3.90	13.18	0.00	13.18	0.00	1.69	0.00	0.00	0.00	0.00	20.67	0.00	0.	0.00
712	0.200	25.27	0.28	143.88	535.86	5.01	11.22	0.00	11.22	0.00	1.54	0.00	0.00	0.00	0.00	20.60	0.00	0.	0.00

FINAL REPORT Cypress Bayou — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 38 CB01to confluence w/BayouLacombe — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
713	UPR RCH	0.21395	25.27	0.28	143.88	535.86	5.01	11.22	0.00	11.22	0.00	1.54	0.00	0.00	0.00	20.60	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
713	0.20	0.10	0.21395	0.9	0.00222	0.52	2.73	35.36	9653.28	3536.00	96.53	7307.13	0.002	7.500	0.002
714	0.10	0.00	0.21395	0.9	0.00222	0.52	2.73	35.36	9653.28	3536.00	96.53	7844.61	0.002	7.500	0.002
TOT						1.04			19306.56	7072.00					
AVG					0.0022		2.73	35.36			96.53				
CUM						4.05									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
713	0.100	8.19	0.28	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.06	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
714	0.000	8.18	0.28	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.06	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.26	0.05	0.05	0.00	0.00	0.00	0.00	0.00			0.08	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
713	0.100	25.38	0.29	150.12	548.56	5.38	10.61	0.00	10.61	0.00	1.49	0.00	0.00	0.00	0.00	18.90	0.00	0.	0.00
714	0.000	25.49	0.29	153.89	556.22	5.58	10.22	0.00	10.22	0.00	1.47	0.00	0.00	0.00	0.00	17.20	0.00	0.	0.00

STREAM SUMMARY — BAYOU LACOMBE WATERSHED MODEL
Cypress Bayou — CALIBRATION

TRAVEL TIME = 4.05 DAYS

MAXIMUM EFFLUENT = 1.02 PERCENT

FLOW = 0.08594 TO 0.21395 m³/s

DISPERSION	=	1.0000	TO	7.5000	m²/s
VELOCITY	=	0.00222	TO	0.15730	m/s
DEPTH	=	0.29	TO	2.73	m
WIDTH	=	4.69	TO	35.36	m
BOD DECAY	=	0.02	TO	0.07	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.00	TO	8.36	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	0.28	TO	3.85	per day
BOD SETTLING	=	0.05	TO	0.06	per day
NBOD DECAY	=	0.00	TO	0.11	per day
NBOD SETTLING	=	0.05	TO	0.06	per day
TEMPERATURE	=	23.25	TO	25.49	deg C
DISSOLVED OXYGEN	=	0.47	TO	5.58	mg/L

FINAL REPORT Ditch C Hwy 190 CB — BAYOU LACOMBE WATERSHED MODEL
REACH NO. 35 Hwy 190 Ditch CB — CALIBRATION

********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NCM
653	HDWTR	0.00028	23.25	0.14	22.50	286.90	4.00	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
654	WSTLD	0.00007	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
655	WSTLD	0.00001	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
660	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
661	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
663	WSTLD	0.00000	30.60	0.37	57.90	719.70	2.00	103.50	0.00	103.50	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00

********** HYDRAULIC PARAMETER VALUES **********

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
653	1.60	1.50	0.00028	0.0	0.00560	0.21	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.006
654	1.50	1.40	0.00035	21.0	0.00709	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
655	1.40	1.30	0.00036	22.9	0.00727	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
656	1.30	1.20	0.00036	22.9	0.00727	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
657	1.20	1.10	0.00036	22.9	0.00727	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
658	1.10	1.00	0.00036	22.9	0.00727	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
659	1.00	0.90	0.00036	22.9	0.00727	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
660	0.90	0.80	0.00036	23.1	0.00728	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
661	0.80	0.70	0.00037	23.5	0.00732	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
662	0.70	0.60	0.00037	23.5	0.00732	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
663	0.60	0.50	0.00037	24.4	0.00741	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
664	0.50	0.40	0.00037	24.4	0.00741	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
665	0.40	0.30	0.00037	24.4	0.00741	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
666	0.30	0.20	0.00037	24.4	0.00741	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
667	0.20	0.10	0.00037	24.4	0.00741	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
668	0.10	0.00	0.00037	24.4	0.00741	0.16	0.05	1.00	5.00	100.00	0.05	0.00	0.000	0.000	0.007
TOT						2.58			80.00	1600.00					
AVG					0.0072		0.05	1.00			0.05				
CUM						2.58									

********** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
653	1.500	8.53	15.85	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
654	1.400	8.53	16.30	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
655	1.300	8.53	16.35	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
656	1.200	8.53	16.35	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
657	1.100	8.53	16.35	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
658	1.000	8.53	16.35	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
659	0.900	8.53	16.35	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
660	0.800	8.53	16.36	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
661	0.700	8.53	16.37	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
662	0.600	8.53	16.37	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
663	0.500	8.53	16.40	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
664	0.400	8.53	16.40	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
665	0.300	8.53	16.40	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
666	0.200	8.53	16.40	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
667	0.100	8.53	16.40	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00

668	0.000	8.53	16.40	0.09	0.05	0.00	0.00	0.00	0.00	0.61	0.61	0.61	0.04	0.05	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			15.34	0.08	0.05	0.00	0.00	0.00	0.00	0.50			0.03	0.05	0.00	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

********** WATER QUALITY CONSTITUENT VALUES **********

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	chloride mg/L	conduct uS/cm	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NCM
653	1.500	23.25	0.14	22.50	286.90	6.87	2.20	0.00	2.20	0.00	1.00	0.00	0.00	0.00	0.00	1.54	0.00	0.	0.00
654	1.400	23.25	0.19	29.94	377.86	7.14	22.99	0.00	22.99	0.00	14.15	0.00	0.00	0.00	0.00	3.08	0.00	0.	0.00
655	1.300	23.25	0.19	30.62	386.14	7.45	24.42	0.00	24.42	0.00	15.16	0.00	0.00	0.00	0.00	4.61	0.00	0.	0.00
656	1.200	23.25	0.19	30.62	386.14	7.58	23.91	0.00	23.91	0.00	14.96	0.00	0.00	0.00	0.00	6.15	0.00	0.	0.00
657	1.100	23.25	0.19	30.62	386.14	7.62	23.41	0.00	23.41	0.00	14.76	0.00	0.00	0.00	0.00	7.69	0.00	0.	0.00
658	1.000	23.25	0.19	30.62	386.14	7.64	22.93	0.00	22.93	0.00	14.56	0.00	0.00	0.00	0.00	9.23	0.00	0.	0.00
659	0.900	23.25	0.19	30.62	386.14	7.65	22.45	0.00	22.45	0.00	14.37	0.00	0.00	0.00	0.00	10.76	0.00	0.	0.00
660	0.800	23.25	0.19	30.68	386.96	7.66	22.18	0.00	22.18	0.00	14.30	0.00	0.00	0.00	0.00	12.30	0.00	0.	0.00
661	0.700	23.25	0.19	30.82	388.60	7.66	22.12	0.00	22.12	0.00	14.36	0.00	0.00	0.00	0.00	13.84	0.00	0.	0.00
662	0.600	23.25	0.19	30.82	388.60	7.67	21.67	0.00	21.67	0.00	14.17	0.00	0.00	0.00	0.00	15.38	0.00	0.	0.00
663	0.500	23.25	0.20	31.14	392.53	7.66	22.18	0.00	22.18	0.00	14.57	0.00	0.00	0.00	0.00	16.91	0.00	0.	0.00
664	0.400	23.25	0.20	31.14	392.53	7.68	21.73	0.00	21.73	0.00	14.38	0.00	0.00	0.00	0.00	18.45	0.00	0.	0.00
665	0.300	23.25	0.20	31.14	392.53	7.69	21.29	0.00	21.29	0.00	14.19	0.00	0.00	0.00	0.00	19.99	0.00	0.	0.00
666	0.200	23.25	0.20	31.14	392.53	7.70	20.86	0.00	20.86	0.00	14.01	0.00	0.00	0.00	0.00	21.52	0.00	0.	0.00
667	0.100	23.25	0.20	31.14	392.53	7.71	20.44	0.00	20.44	0.00	13.82	0.00	0.00	0.00	0.00	23.06	0.00	0.	0.00
668	0.000	23.25	0.20	31.14	392.53	7.72	20.03	0.00	20.03	0.00	13.64	0.00	0.00	0.00	0.00	24.60	0.00	0.	0.00

STREAM SUMMARY
Ditch C Hwy 190 CB

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

TRAVEL TIME	=	2.58	DAYS		
MAXIMUM EFFLUENT	=	24.41	PERCENT		
FLOW	=	0.00028	TO	0.00037	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00560	TO	0.00741	m/s
DEPTH	=	0.05	TO	0.05	m
WIDTH	=	1.00	TO	1.00	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.61	TO	0.61	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	15.85	TO	16.40	per day
BOD SETTLING	=	0.05	TO	0.05	per day
NBOD DECAY	=	0.04	TO	0.04	per day
NBOD SETTLING	=	0.05	TO	0.05	per day
TEMPERATURE	=	23.25	TO	23.25	deg C
DISSOLVED OXYGEN	=	6.87	TO	7.72	mg/L

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.....BEGIN SENSITIVITY RUN  1 ON PARAMETER SET  1 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  20 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

.....BEGIN SENSITIVITY RUN  2 ON PARAMETER SET  1 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  11 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

.....BEGIN SENSITIVITY RUN  3 ON PARAMETER SET  2 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  20 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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     .....BEGIN SENSITIVITY RUN  4 ON PARAMETER SET  2 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  11 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN  5 ON PARAMETER SET  3 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN  6 ON PARAMETER SET  3 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN  7 ON PARAMETER SET  4 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN  8 ON PARAMETER SET  4 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN  9 ON PARAMETER SET  5 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  16 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 10 ON PARAMETER SET  5 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  13 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING:  NEGATIVE CONCENTRATIONS SET TO ZERO FOR Dissolved Oxygen



     .....BEGIN SENSITIVITY RUN 11 ON PARAMETER SET  6 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 12 ON PARAMETER SET  6 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 13 ON PARAMETER SET  7 AND COLUMN  1
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.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 14 ON PARAMETER SET  7 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 15 ON PARAMETER SET  8 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 16 ON PARAMETER SET  8 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 17 ON PARAMETER SET  9 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 18 ON PARAMETER SET  9 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 19 ON PARAMETER SET 10 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 20 ON PARAMETER SET 10 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 21 ON PARAMETER SET 11 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  16 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 22 ON PARAMETER SET 11 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
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     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 23 ON PARAMETER SET 12 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 24 ON PARAMETER SET 12 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 25 ON PARAMETER SET 13 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  13 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING:  NEGATIVE CONCENTRATIONS SET TO ZERO FOR Dissolved Oxygen



     .....BEGIN SENSITIVITY RUN 26 ON PARAMETER SET 13 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  16 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 27 ON PARAMETER SET 14 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  11 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING:  NEGATIVE CONCENTRATIONS SET TO ZERO FOR Dissolved Oxygen



     .....BEGIN SENSITIVITY RUN 28 ON PARAMETER SET 14 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  20 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 29 ON PARAMETER SET 15 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 30 ON PARAMETER SET 15 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 31 ON PARAMETER SET 16 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 32 ON PARAMETER SET 16 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 33 ON PARAMETER SET 17 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  20 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 34 ON PARAMETER SET 17 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  11 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 35 ON PARAMETER SET 18 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 36 ON PARAMETER SET 18 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 37 ON PARAMETER SET 19 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 38 ON PARAMETER SET 19 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  13 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 39 ON PARAMETER SET 20 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 40 ON PARAMETER SET 20 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 41 ON PARAMETER SET 21 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 42 ON PARAMETER SET 21 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 43 ON PARAMETER SET 22 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 44 ON PARAMETER SET 22 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 45 ON PARAMETER SET 23 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 46 ON PARAMETER SET 23 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 47 ON PARAMETER SET 24 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 48 ON PARAMETER SET 24 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 49 ON PARAMETER SET 25 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 50 ON PARAMETER SET 25 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
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.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 51 ON PARAMETER SET 26 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 52 ON PARAMETER SET 26 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 53 ON PARAMETER SET 27 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 54 ON PARAMETER SET 27 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 55 ON PARAMETER SET 28 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 56 ON PARAMETER SET 28 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 57 ON PARAMETER SET 29 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 58 ON PARAMETER SET 29 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 59 ON PARAMETER SET 30 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 60 ON PARAMETER SET 30 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 61 ON PARAMETER SET 31 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 62 ON PARAMETER SET 31 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 63 ON PARAMETER SET 32 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 64 ON PARAMETER SET 32 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 65 ON PARAMETER SET 33 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 66 ON PARAMETER SET 33 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 67 ON PARAMETER SET 34 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....BEGIN SENSITIVITY RUN 68 ON PARAMETER SET 34 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 69 ON PARAMETER SET 35 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 70 ON PARAMETER SET 35 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 71 ON PARAMETER SET 36 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 72 ON PARAMETER SET 36 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 73 ON PARAMETER SET 37 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 74 ON PARAMETER SET 37 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 75 ON PARAMETER SET 38 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 76 ON PARAMETER SET 38 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 77 ON PARAMETER SET 39 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 78 ON PARAMETER SET 39 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
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.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 79 ON PARAMETER SET 40 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 80 ON PARAMETER SET 40 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 81 ON PARAMETER SET 41 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 82 ON PARAMETER SET 41 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 83 ON PARAMETER SET 42 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 84 ON PARAMETER SET 42 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 85 ON PARAMETER SET 43 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 86 ON PARAMETER SET 43 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 87 ON PARAMETER SET 44 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 88 ON PARAMETER SET 44 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....EXECUTION COMPLETED
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SENSITIVITY ANALYSIS SUMMARY

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

Plot 1 Base Model Minimum DO = 3.12

Parameter	%Param Chg	Min D.O.	%D.O. Chg	%Param Chg	Min D.O.	%D.O. Chg
Stream Baseflow	30.	3.50	12.1	-30.	2.73	-12.7
Stream Velocity	30.	2.92	-6.4	-30.	3.14	0.6
Stream Depth	30.	3.70	18.6	-30.	2.53	-18.8
Stream Dispersion	30.	3.12	0.0	-30.	3.12	0.0
Stream Reaeration	30.	4.20	34.4	-30.	1.68	-46.2
CBOD Aerobic Decay Rate	30.	2.78	-10.8	-30.	3.53	12.9
CBOD Settling Rate	30.	3.26	4.3	-30.	2.97	-5.0
CBOD2 Aerobic Decay Rate	30.	3.12	0.0	-30.	3.12	0.0
CBOD2 Settling Rate	30.	3.12	0.0	-30.	3.12	0.0
Tidal Range	30.	3.12	0.0	-30.	3.12	0.0
NBOD Decay Rate	30.	3.00	-4.0	-30.	3.28	5.1
NBOD Settling Rate	30.	3.18	2.0	-30.	3.05	-2.2
Benthal Demand	30.	1.74	-44.4	-30.	4.73	51.4
Initial Temperature	2.	2.43	-22.2	-2.	3.81	22.0
Initial Salinity	30.	3.12	0.0	-30.	3.12	0.0
Initial Chorophyll a	30.	3.94	26.1	-30.	2.27	-27.4
Incremental Inflow	30.	3.41	9.1	-30.	2.83	-9.5
Incremental Temperature	30.	3.12	0.0	-30.	3.12	0.0
Incremental DO	30.	3.13	0.3	-30.	3.11	-0.3
Incremental CBOD	30.	3.09	-1.0	-30.	3.15	1.0
Incremental CBOD2	30.	3.12	0.0	-30.	3.12	0.0
Incremental NBOD	30.	3.12	-0.1	-30.	3.12	0.1
Headwater Flow	30.	3.23	3.3	-30.	3.02	-3.3
Headwater Temperature	30.	3.12	0.0	-30.	3.12	0.0
Headwater DO	30.	3.12	0.0	-30.	3.12	0.0

Headwater CBOD	30.	3.11	-0.3	-30.	3.13	0.3
Headwater CBOD2	30.	3.12	0.0	-30.	3.12	0.0
Headwater NBOD	30.	3.12	0.0	-30.	3.12	0.0
Wasteload Flow	30.	3.09	-1.1	-30.	3.16	1.1
Wasteload Temperature	2.	3.12	0.0	-2.	3.12	0.0
Wasteload DO	30.	3.12	0.0	-30.	3.12	0.0
Wasteload CBOD	30.	3.10	-0.6	-30.	3.14	0.6
Wasteload CBOD2	30.	3.12	0.0	-30.	3.12	0.0
Wasteload NBOD	30.	3.10	-0.8	-30.	3.15	0.8
Ocean Exchange Ratio	30.	3.12	0.0	-30.	3.12	0.0
Lower Boundary Temperature	2.	3.12	0.0	-2.	3.12	0.0
Lower Boundary DO	30.	3.12	0.0	-30.	3.12	0.0
Lower Boundary CBOD	30.	3.12	0.0	-30.	3.12	0.0
Lower Boundary CBOD2	30.	3.12	0.0	-30.	3.12	0.0
Lower Boundary Chlorophyll a	30.	3.12	0.0	-30.	3.12	0.0
Lower Boundary NBOD	30.	3.12	0.0	-30.	3.12	0.0
Non-Point Source CBOD	30.	2.68	-14.3	-30.	3.57	14.4
Non-Point Source BOD2	30.	3.12	0.0	-30.	3.12	0.0
Non-Point Source NBOD	30.	2.93	-6.3	-30.	3.32	6.4

SENSITIVITY ANALYSIS SUMMARY

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

Plot 2 Base Model Minimum DO = 0.49

Parameter	%Param Chg	Min D.O.	%D.O. Chg	%Param Chg	Min D.O.	%D.O. Chg
Stream Baseflow	30.	0.77	57.7	-30.	0.15	-70.0
Stream Velocity	30.	0.70	43.6	-30.	0.21	-57.7
Stream Depth	30.	0.80	64.1	-30.	0.12	-74.8
Stream Dispersion	30.	0.49	0.0	-30.	0.49	0.0
Stream Reaeration	30.	1.66	240.1	-30.	0.00	-100.0
CBOD Aerobic Decay Rate	30.	0.43	-12.7	-30.	0.56	15.5
CBOD Settling Rate	30.	0.51	4.0	-30.	0.47	-4.6
CBOD2 Aerobic Decay Rate	30.	0.49	0.0	-30.	0.49	0.0
CBOD2 Settling Rate	30.	0.49	0.0	-30.	0.49	0.0
Tidal Range	30.	0.49	0.0	-30.	0.49	0.0

NBOD Decay Rate	30.	0.47	-3.6	-30.	0.51	4.6
NBOD Settling Rate	30.	0.50	1.4	-30.	0.48	-1.6
Benthal Demand	30.	0.00	-100.0	-30.	2.44	399.0
Initial Temperature	2.	0.00	-100.0	-2.	1.25	156.2
Initial Salinity	30.	0.49	0.0	-30.	0.49	0.0
Initial Chorophyll a	30.	0.75	52.7	-30.	0.21	-56.8
Incremental Inflow	30.	0.75	53.8	-30.	0.17	-65.4
Incremental Temperature	30.	0.49	0.0	-30.	0.49	0.0
Incremental DO	30.	0.60	22.5	-30.	0.38	-22.8
Incremental CBOD	30.	0.47	-3.2	-30.	0.51	3.3
Incremental CBOD2	30.	0.49	0.0	-30.	0.49	0.0
Incremental NBOD	30.	0.49	-0.2	-30.	0.49	0.2
Headwater Flow	30.	0.51	4.5	-30.	0.47	-4.4
Headwater Temperature	30.	0.49	0.0	-30.	0.49	0.0
Headwater DO	30.	0.50	1.4	-30.	0.48	-1.4
Headwater CBOD	30.	0.49	-0.3	-30.	0.49	0.3
Headwater CBOD2	30.	0.49	0.0	-30.	0.49	0.0
Headwater NBOD	30.	0.49	0.0	-30.	0.49	0.0
Wasteload Flow	30.	0.49	0.5	-30.	0.49	-0.5
Wasteload Temperature	2.	0.49	0.0	-2.	0.49	0.0
Wasteload DO	30.	0.49	0.0	-30.	0.49	0.0
Wasteload CBOD	30.	0.48	-1.4	-30.	0.50	1.4
Wasteload CBOD2	30.	0.49	0.0	-30.	0.49	0.0
Wasteload NBOD	30.	0.48	-2.5	-30.	0.50	2.5
Ocean Exchange Ratio	30.	0.49	0.0	-30.	0.49	0.0
Lower Boundary Temperature	2.	0.49	0.0	-2.	0.49	0.0
Lower Boundary DO	30.	0.49	0.0	-30.	0.49	0.0
Lower Boundary CBOD	30.	0.49	0.0	-30.	0.49	0.0
Lower Boundary CBOD2	30.	0.49	0.0	-30.	0.49	0.0
Lower Boundary Chlorophyll a	30.	0.49	0.0	-30.	0.49	0.0
Lower Boundary NBOD	30.	0.49	0.0	-30.	0.49	0.0
Non-Point Source CBOD	30.	0.43	-12.7	-30.	0.56	13.6
Non-Point Source BOD2	30.	0.49	0.0	-30.	0.49	0.0
Non-Point Source NBOD	30.	0.47	-4.0	-30.	0.51	4.2

SENSITIVITY ANALYSIS SUMMARY

BAYOU LACOMBE WATERSHED MODEL
CALIBRATION

Plot 3 Base Model Minimum DO = 0.47

Parameter	%Param Chg	Min D.O.	%D.O. Chg	%Param Chg	Min D.O.	%D.O. Chg
Stream Baseflow	30.	0.56	20.0	-30.	0.35	-25.1
Stream Velocity	30.	0.52	12.2	-30.	0.39	-16.2
Stream Depth	30.	0.72	53.3	-30.	0.15	-68.1
Stream Dispersion	30.	0.47	0.0	-30.	0.47	0.0
Stream Reaeration	30.	1.34	186.7	-30.	0.00	-100.0
CBOD Aerobic Decay Rate	30.	0.39	-16.8	-30.	0.57	22.0
CBOD Settling Rate	30.	0.48	2.4	-30.	0.45	-2.6
CBOD2 Aerobic Decay Rate	30.	0.47	0.0	-30.	0.47	0.0
CBOD2 Settling Rate	30.	0.47	0.0	-30.	0.47	0.0
Tidal Range	30.	0.47	0.0	-30.	0.47	0.0
NBOD Decay Rate	30.	0.46	-0.5	-30.	0.47	0.6
NBOD Settling Rate	30.	0.47	0.3	-30.	0.47	-0.3
Benthal Demand	30.	0.00	-100.0	-30.	1.53	227.8
Initial Temperature	2.	0.00	-100.0	-2.	0.96	105.7
Initial Salinity	30.	0.47	0.0	-30.	0.47	0.0
Initial Chorophyll a	30.	0.75	60.6	-30.	0.18	-62.4
Incremental Inflow	30.	0.55	18.0	-30.	0.36	-22.1
Incremental Temperature	30.	0.47	0.0	-30.	0.47	0.0
Incremental DO	30.	0.51	10.0	-30.	0.42	-10.5
Incremental CBOD	30.	0.42	-10.6	-30.	0.52	12.2
Incremental CBOD2	30.	0.47	0.0	-30.	0.47	0.0
Incremental NBOD	30.	0.47	-0.3	-30.	0.47	0.3
Headwater Flow	30.	0.48	2.6	-30.	0.45	-2.5
Headwater Temperature	30.	0.47	0.0	-30.	0.47	0.0
Headwater DO	30.	0.47	1.2	-30.	0.46	-1.2
Headwater CBOD	30.	0.46	-1.4	-30.	0.47	1.4
Headwater CBOD2	30.	0.47	0.0	-30.	0.47	0.0
Headwater NBOD	30.	0.47	0.0	-30.	0.47	0.0
Wasteload Flow	30.	0.47	0.0	-30.	0.47	0.0
Wasteload Temperature	2.	0.47	0.0	-2.	0.47	0.0
Wasteload DO	30.	0.47	0.2	-30.	0.47	-0.2
Wasteload CBOD	30.	0.47	-0.3	-30.	0.47	0.3
Wasteload CBOD2	30.	0.47	0.0	-30.	0.47	0.0
Wasteload NBOD	30.	0.47	-0.1	-30.	0.47	0.1
Ocean Exchange Ratio	30.	0.47	0.0	-30.	0.47	0.0
Lower Boundary Temperature	2.	0.47	0.0	-2.	0.47	0.0
Lower Boundary DO	30.	0.47	0.0	-30.	0.47	0.0

Lower Boundary CBOD	30.	0.47	0.0	-30.	0.47	0.0
Lower Boundary CBOD2	30.	0.47	0.0	-30.	0.47	0.0
Lower Boundary Chlorophyll a	30.	0.47	0.0	-30.	0.47	0.0
Lower Boundary NBOD	30.	0.47	0.0	-30.	0.47	0.0
Non-Point Source CBOD	30.	0.43	-7.6	-30.	0.51	8.3
Non-Point Source BOD2	30.	0.47	0.0	-30.	0.47	0.0
Non-Point Source NBOD	30.	0.46	-0.7	-30.	0.47	0.7