FINAL

BAYOU FOLSE WATERSHED TMDL
FOR BIOCHEMICAL OXYGEN-DEMANDING SUBSTANCES AND NUTRIENTS

SUBSEGMENTS 120302

SURVEYED June 29 – July 6, 2004

TMDL REPORT

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EXECUTIVE SUMMARY

This report presents the results of a watershed based, calibrated modeling analysis of Bayou Folse and Bayou Cutoff in Subsegment 120302 of Terrebonne Basin. The modeling was conducted to establish a TMDL for biochemical oxygen-demanding pollutants for the Bayou Folse watershed. Although Company Canal is the named waterbody on the 303(d) list for this subsegment, it was never monitored by the LDEQ Water Quality Network (WQN). The waterbody sampled by the WQN was Bayou Folse. Therefore, the survey was conducted on Bayou Folse/Bayou Cutoff to establish this TMDL. The subsegment also includes Hollywood Canal, McMahon Canal, Bayou Du Mar, and Lake Fields, all of which are very significant bodies of water. The entire subsegment, including some unnamed canals as well, was surveyed June 29, 2004 through July 6, 2004, with water quality sampling occuring on June 30, 2004. Subsegment 120303, including Bayou L'eau Bleu, Lake Long, lower Hollywood Canal, and oilfield canals below Lake Long, was surveyed at the same time, stretching survey resources rather thin and resulting in less data being collected for Bayous Folse and Cutoff than would otherwise have been the case. Subsequently, the name of Subsegment 120302 was changed to Bayou Folse under the Triennial Revision.

The model extends from the headwaters of Bayou Cutoff to the Bayou Folse confluence with Company Canal. Bayou Cutoff originates in eastern Thibodaux and follows the route of an old 40 arpent canal, parallel to Bayou Lafourche. Bayou Folse originates in an area just west of Theriot Canal and runs down along the northeast side of Lake Fields to Company Canal. Bayou Cutoff conveys stormwater from eastern Thibodaux and treated wastewater from small to medium sized dischargers to Theriot Canal where that flow is routed to Bayou Folse. Stormwater and additional point sources in the Raceland area are picked up by a cut-off portion of Bayou Cutoff and conveyed to Bayou Folse via the Butch Hill Pump Station. Other than Thibodaux, Raceland, and the corridor along Bayou Lafourche, the area is sparsely populated and land use is dominated by grassland, marsh, and wetlands.

There are twenty-six permitted dischargers located within this subsegment and six are included in the model. Three of these 6 have been combined/composited as Dugas Canal. Five point source discharges in the Raceland area are conveyed to Bayou Folse via the Butch Hill Pump Station which is accounted for in the model. The canal system behind the pump station was not modeled. Five point sources are picked up by the 40 Arpent Canal and pumped to Company Canal. Four additional point sources in the subsegment are not in the Bayou Cutoff/Folse watershed. Limits for facilities not modeled will be set by state policy. The pump station load to the model will be regarded as part of the watershed non-point loading.

Input data for the calibration model was developed from data collected during the June 2004 intensive survey; data collected by LDEQ monitoring stations in the watershed; and data garnered from several previous LDEQ studies on nonpoint source loadings. It was originally intended that the hydrology of Bayous Cutoff and Folse be simulated by FTN Associates of Little Rock, Arkansas in UNET. FTN has a calibrated hydraulic model of the coastal Terrebonne Basin that could have provided tidal flow rates for Bayous Folse/Cutoff. However, because of Hurricanes Katrina and Rita, funding for this project was interrupted, and the tidal exchange in Folse/Cutoff was simulated using the non-steady-state modeling program, DYNHYD. This choice was necessitated when the survey crew was unable to make a 24 hour dye study run on Bayou Cutoff which would have provided a value for net advective flow. A satisfactory calibration was achieved for the main stem.

For the projection models, data was taken from ambient temperature and dissolved oxygen records. Projections were adjusted to meet the dissolved oxygen criteria by reducing total nonpoint source loads and/or point sources.

The Louisiana Total Maximum Daily Load Technical Procedures, 01/29/2008, have been followed in this study. The various spreadsheets that were used in conjunction with the modeling program may be found in the appendices.

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. Modeling programs used were LAQUAL, a modified version of the QUAL-TX steady-state model which has been adapted to address specific needs of Louisiana waters, and DYNHYD, a non-steady state hydraulic model.

Subsegment 120302, is on the modified court-ordered list and the consent decree for dissolved oxygen and nutrients, and is listed in the 2004 305(b) integrated report as "not supporting" its designated use of Fish and Wildlife Propagation. It is found to be “fully supporting” its designated use of Primary Contact Recreation, Secondary Contact Recreation, Drinking Water Supply, and Agriculture. Bayou Folse/Bayou Cutoff, the waterbody that was sampled in this subsegment, was subsequently scheduled for TMDL development with other listed waters in the Terrebonne Basin. The suspected causes of impairment are low dissolved oxygen and nutrients. The suspected sources are forced drainage pumping, package plant or other permitted small flow discharges, and sanitary sewer overflows from collection system failures.

This TMDL establishes load limitations for oxygen-demanding substances and goals for reduction of those pollutants. LDEQ’s position, as supported by the declaratory ruling issued by Secretary Givens in response to the lawsuit regarding water quality criteria for nutrients (Sierra Club v. Givens, 710 So.2d 249 (La. App. 1st Cir. 1997), writ denied, 705 So.2d 1106 (La. 1998), is that when oxygen-demanding substances are controlled and limited in order to ensure that the dissolved oxygen criterion is supported, nutrients are also controlled and limited. 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 control and reduce the nutrient loading from those sources.

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 Folse/Bayou Cutoff, subsegment 120302 to comply with its established water quality standards and criteria. This report presents the results of that analysis. For Bayou Folse/Bayou Cutoff, we surmise that the stream could not meet a 5.0 mg/L standard for dissolved oxygen even at background conditions. Since a suitable reference stream was not available, it was not possible to determine exactly the natural background loading. However, experience in this Basin indicates that a 90% removal of the total benthic load would involve a reduction in the background loading. Therefore, it is recommended that a useattainability analysis be conducted for this stream to determine a more appropriate dissolved oxygen standard.

The existing point sources have little to no impact on the main stem of Bayou Folse and require no changes to their permitted discharges.

The results of the projection modeling for subsegment 120302 show that the water quality standard of 5.0 mg/l for dissolved oxygen cannot be maintained even with a 90% reduction in non-point sources. There were no appropriate reference streams available to calculate background conditions. Allocations are presented in Table 1.

Table 1. Total Maximum Daily Load (Sum of UCBOD[1], UNBOD, and SOD)

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAR-NOV) (lbs/day)	% Reduction Required	(DEC-FEB) (lbs/day)
Point Source WLA	0	346	0	346
Point Source Reserve MOS (20%)		86		86
Nonpoint Source LA	90	320	90	260
Nonpoint Source Reserve MOS (20%)		79		64
TMDL		831		756

***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 bas ed on $CBOD_5$***

Bayou Folse WLA Allocations	
Facility	WLA(lbs/day)
Lafourche SD#1	99
Lafourche PH WD #1	119
Lafourche Par SD #14	29
Community Sewer Service	24
Grand Marnier Subdivision	46
Thoroughbred Park Subdivision	29
TOTAL	**346**

***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 bas ed on $CBOD_5$***

The high reduction in non-point indicates that the current criterion for subsegment 120302 is inappropriate. A reassessment of the dissolved oxygen criteria for this subsegment is recommended.

LDEQ will work with other agencies such as local Soil Conservation Districts to implement agricultural best management practices in the watershed through 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 Surveillance Section 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. 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. In 2004 a four year sampling cycle replaced the previous five year cycle. Approximately one quarter of the states watersheds will be sampled in each year so that all of the states 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.

Table 2. 120302 Discharger Inventory

FACILITY	FILE No.	NPDES No.	FACILITY TYPE	RECEIVING WATER	EXPECTED FLOW GPD	BOD5/ CBOD5, mg/L	MODELING COMMENTS
Caro Foods Inc - PFG Caro	19877	LA0072231	Produce Distribution	Hollywood Canal	10,000	30	Not Modeled – too far from the named waterbody.
St. Patrick St.	19454	LAG540362	Public Housing	unnamed ditch to Bayou Cut Off to 40 Arpent Canal to Company Canal	12,000	30	Not Modeled – too far from the named waterbody.
Elmwood Estates	19194	LAG540702	Subdivision	unnamed ditch to Bayou Cut Off to Fourty Arpent Canal to Company Canal	24,000	30	Not Modeled – too far from the named waterbody.
LAFOURCHE PAR SEW DIST #1 (Country Club Subdivision)	43666	LA0049344	Subdivision	Fourty Arpent Canal to Company Canal	180,000	10	Modeled
Harlan's Trailer Park	41725	LAG540344	Trailer Park	28 Arpent Canal to 40 Arpent Canal to Bayou Terrebonne	10,000	30	No Modeled – too far from the named waterbody.
Thoroughbred Park Subdivision	43543	LAG570091	Subdivision	unnamed ditch to Bayou Cutoff	50,400	10	Modeled as Throughbred Ditch
Drachenberg Mobile Home Park	31060	LAG540274	Trailer Park	Unnamed ditch to 40 Arpent Canal to Company Canal	15,300	30	Not Modeled – too far from the named waterbody.
Country Village Estates	18544	LAG560043	Subdivision	local drainage to 40 Arpent Canal to Bayou Lafourche to Company Canal	32,000	20	Not Modeled – too far from the named waterbody.
Martin Trailer Park	18257	LAG530354	Trailer Park	Pipe to street drainage ditch to Hollywood Canal to Company Canal SW of Lake Fields	4,500	30	Not Modeled – too far from the named waterbody.

Marcel's Trailer Rental	**18020**	**LAG530351**	**Trailer Park**	**Extended aeration package plant to Hwy 316 ditch to St Louis Canal to Hollywood Canal to Company Canal**	**2,000**	**30**	**Not Modeled – too far from the named waterbody.**
Community Sewer Service (Dugas Subdivision)	**41103**	**LAG540239**	**Subdivision**	**Ex Aer Plt to drainage ditch to unnamed canal to junction of Hollywood Canal and Bayou Cut-off. B Cut-off to Bayou Folse to Lake Fields and Company Canal. Hollywood Canal to St. Louis Canal and Company Canal.**	**20,800**	**30**	**Modeled as part of Dugas Canal**
Bailey's Apartments	**42075**	**LAG530285**	**Apartment Complex**	**Unnamed ditch to Bayou Cutoff**	**4,400**	**30**	**Not Modeled – too far from the named waterbody.**
Tools and Testing Department	**22714**	**LA0097268**	**Drilling Co.**	**Local drainage to Hollywood Canal**	**363**	**30**	**Not Modeled – too far from the named waterbody.**
LAFOURCHE PAR SEW DIST #14 (Dugas Subivision with addendum treatment plant)	**42222**	**LAG560113**	**STP**	**local Drainage to Company Canal**	**27,200**	**20**	**Modeled as part of Dugas Canal**
Richard Ledet's Trailer Park	**43045**	**LAG530461**	**Trailer Park**	**Unnamed ditch, 40 Arpent, Company Canal, Bayou Lafourche**	**900**	**30**	**Not Modeled – too far from the named waterbody.**
St. Charles Elementary School	**5153**	**LAG540463**	**Public School**	**Ditch to Bayou Cutoff to Bayou Folse**	**5,565**	**30**	**Not Modeled – too far from the named waterbody.**
Central Lafourche School	**42217**	**LAG540454**	**Public School**	**Bayou Lafourche**	**21,960**	**30**	**Not Modeled – too far from the named waterbody.**

Economy Inn	**41346**	**LAG530185**	**Motel**	**Bayou Lafourche via Company Canal**	**1,600**	**30**	**Not Modeled – too far from the named waterbody.**
Raceland Store #3	**43092**	**LAG530679**	**Grocery Store**	**Bayou Lafourche**	**1,000**	**30**	**Not Modeled – too far from the named waterbody.**
Suard Barge	**43434**	**LA0103683**	**Barge Company/Shipyard**	**Company Canal, Intracoastal Waterway, Houma Deepwater Channel, Gulf of Mexico**	**8,500**	**30**	**Not Modeled – too far from the named waterbody.**
Grand Marnier Subdivison	**42293**	**LAG570171**	**Subdivision**	**Forty Arpent Canal to Bayou Cut-Off (to Hollywood Canal to (St Louis Canal to ICWW) to Company Canal) to Company Canal**	**84,400**	**10**	**Modeled**
Transitional Education Center	**81801**	**LAG531038**	**Training Center**	**unnamed canal to Hollywood Canal to ICWW**	**2,300**	**30**	**Not Modeled – too far from the named waterbody.**
Big Wheels Travel Center	**80700**	**LAG540986**	**Travel Center**	**US 90 ditch into Hollywood Canal (to St Louis Canal to the ICWW) to Company Canal**	**13,450**	**30**	**Not Modeled – too far from the named waterbody.**
Shady Park	**18487**	**LAG540640**	**Trailer Park**	**Ditch, bayou cut off, l field**	**12,000**	**30**	**Not Modeled – too far from the named waterbody.**
Woodgroup Logging Services	**12646**	**LA0103411**	**Logging Service**	**Local drainage to Hollywood Canal**	**151**	**30**	**Not Modeled – too far from the named waterbody.**
LAFOURCHE PH WATER DIST #1	**8170**	**LA0072621**	**North Water Plant**	**drainage ditch to Bayou Cutoff to Bayou Folse to Lake Fields**	**108,000**	**10**	**Modeled as part of Dugas Canal**

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Introduction

Subsegment 120302, was on the 2004 303(d) list. Subsegment 120302 is found to be "not supporting" its designated use of Fish and Wildlife Propagation. It is found to be “fully supporting” its designated use of Primary Contact Recreation, Secondary Contact Recreation, Drinking Water Supply, and Agriculture. The suspected causes of impairment are low dissolved oxygen and nutrients. The suspected sources are forced drainage pumping, package plant or other permitted small flows discharges, and sanitary sewer overflows from collection system failures. A calibrated water quality model for the Bayou Folse/Bayou Cutoff, in the subsegment 120302 watershed 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 model development and results.

2. Study Area Description

2.1 General Information

“The Terrebonne Basin covers an area extending approximately 120 miles from the Mississippi River on the north to the Gulf of Mexico on the south. It varies in width from 18 miles to 70 miles. This basin is bounded on the west by the Atchafalaya River Basin and on the east by the Mississippi River and Bayou LaFourche. The topography of the entire basin is lowland, and all the land is subject to flooding except the natural levees along major waterways. The coastal portion of the basin is prone to tidal flooding and consists of marshes ranging from fresh to saline.” (LA DEQ, 1996)

The model extends from the headwaters of Bayou Cutoff to Bayou Folse confluence with Company Canal. Bayou Folse and Bayou Cutoff are located in south Louisiana and this subsegment includes Arpent Canal, Dugas Ditch, Thoroughbred Ditch, Theriot Canal, and Raceland Canal as tributaries. Bayou Folse/Bayou Cutoff is in the Terrebonne Basin and this study includes Water Quality Subsegment 120302. The area is sparsely populated and land use is dominated by grassland, marsh, and wetlands. This area is typical of the basin and is primarily grassland and wetlands as documented in Table 3 (LADEQ, 1999).

A detailed land cover map of Subsegment 120302 is also included in Appendix H2. Average annual precipitation in the segment, based on the nearest Louisiana Climatic Station, is 64 inches based on a 30-year period of record (LSU, 1999). There is a Louisiana average annual precipitation map located in Appendix H3.

Table 3. Land Uses in Segment 120302

Land Type	Acres 120302	Percent Land use 120302
Agriculture/Cropland/Grassland	26644.64	38.67
Fresh Marsh	13775.12	19.99
Wetland Forest Deciduous	12683.83	18.41
Vegetated Urban	6372.94	9.25
Water	5860.76	8.51
Wetland S/S Deciduous	1754.91	2.55
Upland Forest Deciduous	697.65	1.01
Wetland S/S Evergreen	425.89	0.62
Upland Forest Mixed	301.34	0.44
Upland S/S Mixed	265.98	0.39
Non-Vegetated Urban	121.43	0.18

Figure 1. Model Layout

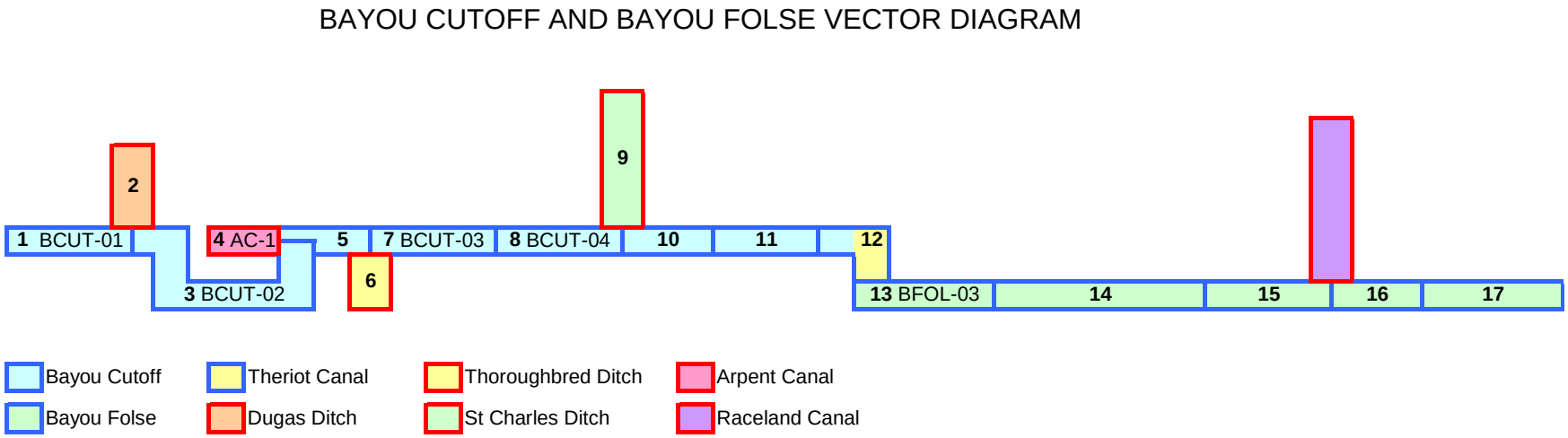
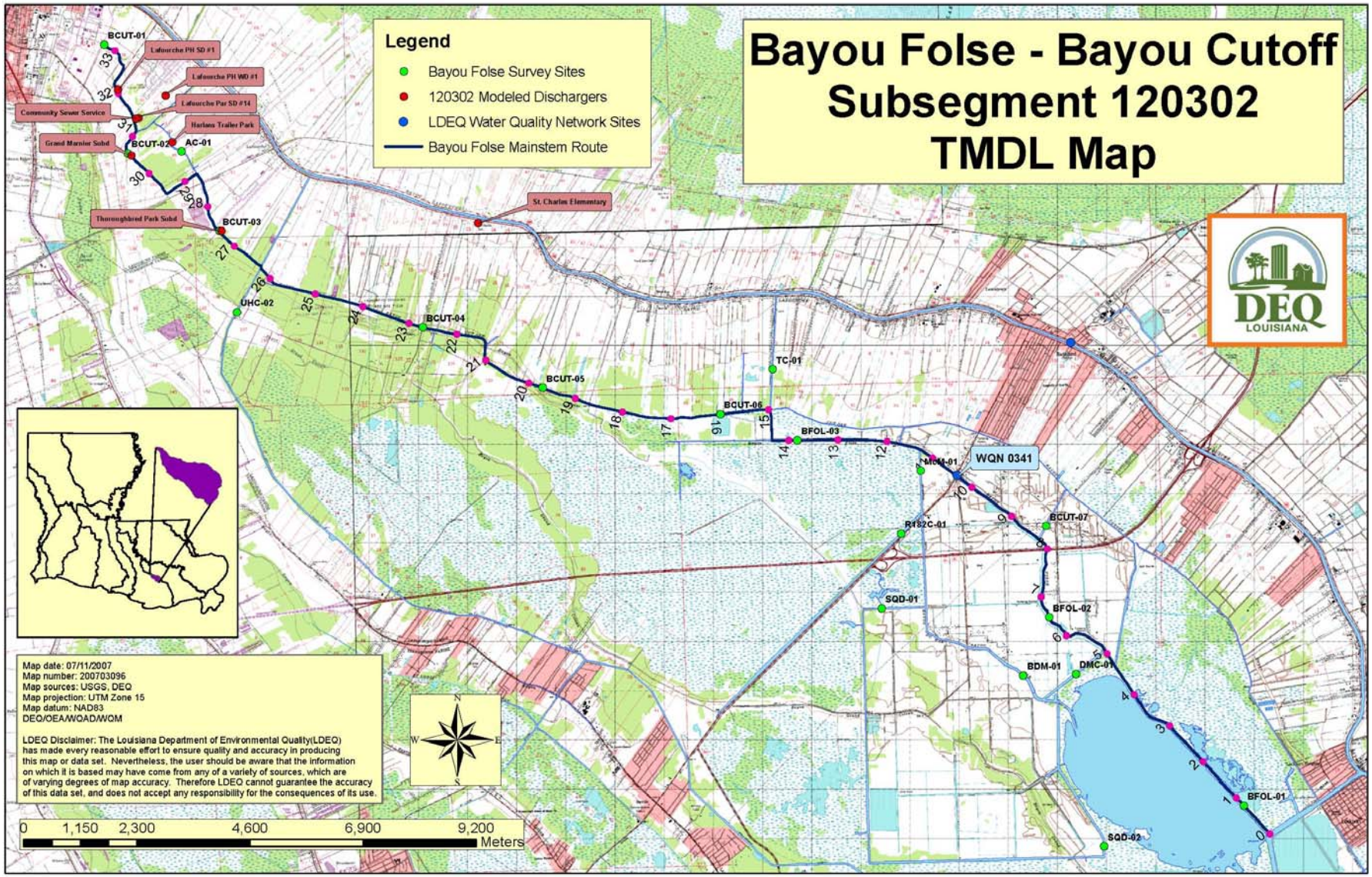


Figure 2. Map of Study Area



2.2 Water Quality Standards

The Water Quality criteria and designated uses for Bayou Folse/Bayou Cutoff Watershed are shown in Table 4. As noted in the table, Bayou Folse/Bayou Cutoff, Subsegment 120302 has a year round dissolved oxygen standard of 5.0 mg/L.

Table 4. Water Quality Numerical Criteria and Designated Uses

Parameter	Value
Designated Uses	A B C D F
DO, mg/L	5.0
Cl, mg/L	500
SO_4, mg/L	150
pH	6.5 – 9.0
BAC	1*
Temperature, deg Celsius	32
TDS, mg/L	1000

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 – 200 colonies/100mL maximum log mean and no more than 25% of samples exceeding 400 colonies/100mL for the period May through October; 1,000 colonies/100mL maximum log mean and no more than 25% of samples exceeding 2,000 colonies/100mL for the period November through April.

2.3 Wastewater Discharges

There are twenty - six permitted dischargers located in this subsegment. Six of the dischargers were included in the model, 3 as direct discharges and 3 as a combined/composited discharge called Dugas Canal. Sixteen of these dischargers were not modeled. These dischargers need not be included in a model of this scale because it is unlikely that they are having an impact on the targeted waterbody due to the distance from Bayou Folse/Bayou Cutoff. These dischargers are accounted for as nonpoint loading through the process of calibration. They fall within the Statewide Sanitary Effluent Limitations Policy (SSELP) that governs permit limitations. Current permit information and discharge monitoring reports were reviewed for these facilities. Due to the fact that these facilities have a minimal impact on Bayou Folse/Bayou Cutoff, they were not modeled and will remain at its current permit limits. Four additional point sources in the subsegment are not in the Bayou Cutoff/Folse watershed.

Table 5. Discharger Inventory for Bayou Folse/Bayou Cutoff Subsegment 120302

FACILITY	FILE No.	NPDES No.	FACILITY TYPE	RECEIVING WATER	EXPECTED FLOW GPD	BOD5/ CBOD5, mg/L	BOD, lbs./day	MODELING COMMENTS
Caro Foods Inc - PFG Caro	19877	LA0072231	Produce Distribution	Hollywood Canal	10,000	30	2.50	Not Modeled – too far from the named waterbody.
St. Patrick St.	19454	LAG540362	Public Housing	unnamed ditch to Bayou Cut Off to 40 Arpent Canal to Company Canal	12,000	30	3.00	Not Modeled – too far from the named waterbody.
Elmwood Estates	19194	LAG540702	Subdivision	unnamed ditch to Bayou Cut Off to Fourty Arpent Canal to Company Canal	24,000	30	6.01	Not Modeled – too far from the named waterbody.
LAFOURCHE PAR SEW DIST #1 (Country Club Subdivision)	43666	LA0049344	Subdivision	Fourty Arpent Canal to Company Canal	180,000	10	15.02	Modeled
Harlan's Trailer Park	41725	LAG540344	Trailer Park	28 Arpent Canal to 40 Arpent Canal to Bayou Terrebonne	10,000	30	2.50	No Modeled – too far from the named waterbody.
Thoroughbred Park Subdivision	43543	LAG570091	Subdivision	unnamed ditch to Bayou Cutoff	50,400	10	4.21	Modeled as Throughbred Ditch
Drachenberg Mobile Home Park	31060	LAG540274	Trailer Park	Unnamed ditch to 40 Arpent Canal to Company Canal	15,300	30	3.83	Not Modeled – too far from the named waterbody.
Country Village Estates	18544	LAG560043	Subdivision	local drainage to 40 Arpent Canal to Bayou Lafourche to Company Canal	32,000	20	5.34	Not Modeled – too far from the named waterbody.
Martin Trailer Park	18257	LAG530354	Trailer Park	Pipe to street drainage ditch to Hollywood Canal to Company Canal SW of Lake Fields	4,500	30	1.13	Not Modeled – too far from the named waterbody.

Marcel's Trailer Rental	**18020**	**LAG530351**	**Trailer Park**	**Extended aeration package plant to Hwy 316 ditch to St Louis Canal to Hollywood Canal to Company Canal**	**2,000**	**30**	**0.50**	**Not Modeled – too far from the named waterbody.**
Community Sewer Service (Dugas Subdivision)	**41103**	**LAG540239**	**Subdivision**	**Ex Aer Plt to drainage ditch to unnamed canal to junction of Hollywood Canal and Bayou Cut-off. B Cut-off to Bayou Folse to Lake Fields and Company Canal. Hollywood Canal to St. Louis Canal and Company Canal.**	**20,800**	**30**	**5.21**	**Modeled as part of Dugas Canal**
Bailey's Apartments	**42075**	**LAG530285**	**Apartment Complex**	**Unnamed ditch to Bayou Cutoff**	**4,400**	**30**	**1.10**	**Not Modeled – too far from the named waterbody.**
Tools and Testing Department	**22714**	**LA0097268**	**Drilling Co.**	**Local drainage to Hollywood Canal**	**363**	**30**	**0.09**	**Not Modeled – too far from the named waterbody.**
LAFOURCHE PAR SEW DIST #14 (Dugas Subivision with addendum treatment plant)	**42222**	**LAG560113**	**STP**	**local Drainage to Company Canal**	**27,200**	**20**	**4.54**	**Modeled as part of Dugas Canal**
Richard Ledet's Trailer Park	**43045**	**LAG530461**	**Trailer Park**	**Unnamed ditch, 40 Arpent, Company Canal, Bayou Lafourche**	**900**	**30**	**0.23**	**Not Modeled – too far from the named waterbody.**
St. Charles Elementary School	**5153**	**LAG540463**	**Public School**	**Ditch to Bayou Cutoff to Bayou Folse**	**5,565**	**30**	**1.39**	**Not Modeled – too far from the named waterbody.**
Central Lafourche School	**42217**	**LAG540454**	**Public School**	**Bayou Lafourche**	**21,960**	**30**	**5.50**	**Not Modeled – too far from the named waterbody.**

Economy Inn	**41346**	**LAG530185**	**Motel**	**Bayou Lafourche via Company Canal**	**1,600**	**30**	**0.40**	**Not Modeled – too far from the named waterbody.**
Raceland Store #3	**43092**	**LAG530679**	**Grocery Store**	**Bayou Lafourche**	**1,000**	**30**	**0.25**	**Not Modeled – too far from the named waterbody.**
Suard Barge	**43434**	**LA0103683**	**Barge Company/Shipyard**	**Company Canal, Intracoastal Waterway, Houma Deepwater Channel, Gulf of Mexico**	**8,500**	**30**	**2.13**	**Not Modeled – too far from the named waterbody.**
Grand Marnier Subdivison	**42293**	**LAG570171**	**Subdivision**	**Forty Arpent Canal to Bayou Cut-Off (to Hollywood Canal to (St Louis Canal to ICWW) to Company Canal) to Company Canal**	**84,400**	**10**	**7.04**	**Modeled**
Transitional Education Center	**81801**	**LAG531038**	**Training Center**	**unnamed canal to Hollywood Canal to ICWW**	**2,300**	**30**	**0.58**	**Not Modeled – too far from the named waterbody.**
Big Wheels Travel Center	**80700**	**LAG540986**	**Travel Center**	**US 90 ditch into Hollywood Canal (to St Louis Canal to the ICWW) to Company Canal**	**13,450**	**30**	**3.37**	**Not Modeled – too far from the named waterbody.**
Shady Park	**18487**	**LAG540640**	**Trailer Park**	**Ditch, bayou cut off, l field**	**12,000**	**30**	**3.00**	**Not Modeled – too far from the named waterbody.**
Woodgroup Logging Services	**12646**	**LA0103411**	**Logging Service**	**Local drainage to Hollywood Canal**	**151**	**30**	**0.04**	**Not Modeled – too far from the named waterbody.**
LAFOURCHE PH WATER DIST #1	**8170**	**LA0072621**	**North Water Plant**	**drainage ditch to Bayou Cutoff to Bayou Folse to Lake Fields**	**108,000**	**10**	**9.01**	**Modeled as part of Dugas Canal**

2.4 Water Quality Conditions/Assessment

Subsegment 120302, was on the 2004 303(d) list. Subsegment 120302 is found to be "not supporting" its designated use of Fish and Wildlife Propagation. It is found to be “fully supporting” its designated use of Primary Contact Recreation, Secondary Contact Recreation, Drinking Water Supply, and Agriculture. The suspected causes of impairment are low dissolved oxygen and nutrients. The suspected sources are forced drainage pumping, package plant or other permitted small flows discharges, and sanitary sewer overflows from collection system failures.

2.5 Prior Studies

LDEQ has one monthly water quality sampling station on Bayou Folse/Bayou Cutoff. LDEQ Water Quality Site 0341, Bayou Folse north of Houma, Louisiana, has a period of record from January 1995 to May 1998, January 2000 to December 2000, and January 2005 to September 2005. Data collected during the Eularian survey conducted in June 29 – July 6, 2004, 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.

3. Documentation Calibration Model

3.1 Program Description

“Simulation models are used extensively in water quality planning and pollution control. Models are applied to answer a variety of questions, support watershed planning and analysis and develop total maximum daily loads (TMDLs). . . . Receiving water models simulate the movement and transformation of pollutants through lakes, streams, rivers, estuaries, or near shore ocean areas. . . . Receiving water models are used to examine the interactions between loadings and response, evaluate loading capacities (LCs), and test various loading scenarios. . . . A fundamental concept for the analysis of receiving waterbody response to point and nonpoint source inputs is the principle of mass balance (or continuity). Receiving water models typically develop a mass balance for one or more constituents, taking into account three factors: transport through the system, reactions within the system, and inputs into the system.” (EPA841-b-97-006, pp. 1-30)

The model used for this TMDL was LA-QUAL, a steady-state one-dimensional water quality model. LA-QUAL history dates back to the QUAL-I model developed by the Texas Water Development Board with Frank D. Masch & Associates in 1970 and 1971. William A. White wrote a original code.

In June, 1972, the United States Environmental Protection Agency awarded Water Resources Engineers, Inc. (now Camp Dresser & McKee) a contract to modify QUAL-I for application to the Chattahoochee-Flint River, the Upper Mississippi River, the Iowa-Cedar River, and the Santee River. The modified version of QUAL-I was known as QUAL-II.

Over the next three years, several versions of the model evolved in response to specific client needs. In March, 1976, the Southeast Michigan Council of Governments (SEMCOG) contracted with Water Resources Engineers, Inc. to make further modifications and to combine the best features of the

existing versions of QUAL-II into a single model. That became known as the QUAL-II/ SEMCOG version.

Between 1978 and 1984, Bruce L. Wiland with the Texas Department of Water Resources modified QUAL-II for application to the Houston Ship Channel estuarine system. Numerous modifications were made to enable modeling this very large and complex system including the addition of tidal dispersion, lower boundary conditions, nitrification inhibition, sensitivity analysis capability, branching tributaries, and various input/output changes. This model became known as QUAL-TX and was subsequently applied to streams throughout the State of Texas.

In 1999, the Louisiana Department of Environmental Quality and Wiland Consulting, Inc. developed LA-QUAL based on QUAL-TX Version 3.4. The program was converted from a DOS-based program to a Windows-based program with a graphical interface and enhanced graphic output. Other program modifications specific to the needs of Louisiana and the Louisiana DEQ were also made. LA-QUAL is a user-oriented model and is intended to provide the basis for evaluating total maximum daily loads in the State of Louisiana.

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 and 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 of 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.

3.2 Input Data Documentation

Data collected during an intensive survey conducted from June 29 – July 6, 2004, was used to establish the input for the model calibration. The data is presented in Appendix F. The flows were established using Dynhyd hydrologic model. The flows for the modeled dischargers were assumed to be the expected flows for the facilities.

Field and laboratory water quality data were entered in a spreadsheet for ease of analysis. Upon review of the measured CBOD daily values it became apparent that there were two distinct CBOD components, which had varying ultimate values as well as decay rates and lag times. The first component started its decay almost immediately while the second component had substantial lag times. The total CBOD curve presented in Appendix F5 is the sum of the two first order equations, which were derived using the Microsoft Excel Solver and were based on the measured daily CBOD values. These two CBOD components were modeled separately as CBOD1 and CBOD2 in the LAQUAL model. NBOD simulated organic nitrogen, ammonia nitrogen, and nitrate/nitrite nitrogen. The Louisiana BOD program was applied to the BOD data in a separate spreadsheet and values were computed for each sample taken of ultimate CBOD1, CBOD1 decay rate, CBOD1 lag time, ultimate CBOD2, CBOD2 decay rate, and CBOD2 lag time as well as the NBOD, NBOD decay rate, and NBOD lag time. 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.

3.2.1 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/element design, and the locations of the tributaries. An ARCVIEW map of the stream and subsegment showing river kilometers, survey stations, and other points of interest are also included in Figure 2 and Appendix H1.

3.2.2 Model Options, Data Type 2

Six constituents were modeled during the calibration process. These were dissolved oxygen, carbonaceous biochemical oxygen demand components 1 and 2, nitrogenous biochemical oxygen

demand, chloride, and conductivity. 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.

3.2.3 Program Constants, Data Type 3

To take into consideration all modes of transport, equation 3, ($D_L = aH^bQ^cV_M{}^d$) in Laqual was used.

The headwater exchange ratio was set to 1 because Bayou Folse/Bayou Cutoff is tidally influenced.

The tide height and period of tidal rise were calculated using the USGS site, Company Canal at the Salt Water Barrier. All documentation is located in Appendix G2.

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 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.

The settling rate units were set to option 2 which is 1/day. By making the settling rate a velocity, the rate becomes dependent upon the depth.

The wind velocity was calculated from the Houma weather station.

3.2.4 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 LAQUAL default values.

3.2.5 Reach Identification Data, Data Type 8

A diagram of the modeled area is presented in Appendix C1. The vector diagram shows the reach/element design. The modeled area is characterized by 10 sample sites. The model begins at the headwaters of Bayou Cutoff and extends to Bayou Folse at Company Canal. This calibrated model includes 14 reaches, 372 elements, one headwater, 1 tributary, and six dischargers. Three of the dischargers were combined and modeled as Dugas Canal which was treated as a Point Source. Thoroughbred Park Subdivision flows into Thoroughbred Ditch which was treated as a Point Source. A digitized map of the stream showing river kilometers and the June/July 2004 survey sampling sites are included in Figure 2 and Appendix H1.

3.2.6 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 Folse and Bayou Cutoff, 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:

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

LAQUAL reaches are all less than 3 Km long to allow flexibility in varying stream geometry. Ditches between dischargers and the main stem are modeled with estimated geometry.

DYNHYD simulates a constant width and a time varying depth. The calibration run at 1.03 cms gives an elevation at the headwater that is just 0.16 meters above Company Canal elevation. The elevation at zero flow would, of course, be zero meters above Company Canal elevation. Because the range of variation of width and depth for flows ranging from zero to the highest value to be simulated is small, a linear relationship betweem geometry and flow will be assumed. The rating curves, $W=aQ^b+c$ and $D=dQ^e+f$, are developed from measured cross sections as documented in the Rating Curve spreadsheet. There is no measured cross section at Site BFOL-01 and no rating curves were developed for that site. Width and average depth for BFOL-01 are taken from the acoustic doppler measurement. The calculations of the Rating Curve spreadsheet show that the geometry at most of the sites varies only very slightly with flow, especially the in the lower reaches. Reaches 16 and 17 are so close to Company Canal that their geometry will not be varied with flow and will be modeled at a constant

width and depth. The calculated rating formuli are summarized below. For more documentation see Appendix F2.

Location	BCUT-01	BCUT-02	BCUT-03	BCUT-04
RKm	33.22	30.68	27.39	22.66
DYNHYD channel	72	69	63	51
a	0.806	0.942	0.400	0.762
b	1.000	1.000	1.000	1.000
c	9.520	14.26	20.31	24.38
d	0.143	0.070	0.050	0.039
e	1.000	1.000	1.000	1.000
f	0.500	0.960	1.180	1.280

Location	BCUT-06	BFOL-03	BFOL-02
RKm	15.68	13.69	6.45
DYNHYD channel	36	32	15
a	0.029	0.067	0.333
b	1.000	1.000	1.000
c	24.55	26.14	40.80
d	0.028	0.025	0.021
e	1.000	1.000	1.000
f	1.410	1.520	1.570

3.2.7 Dispersive Hydraulic Coefficients, Data Type 10

The dispersion was estimated based on the dye study. The dye study was conducted using the moving site method. There was one dye run conducted during this study. The Kd value was determined to be 1.46. All documentation can be found in Appendix F6.

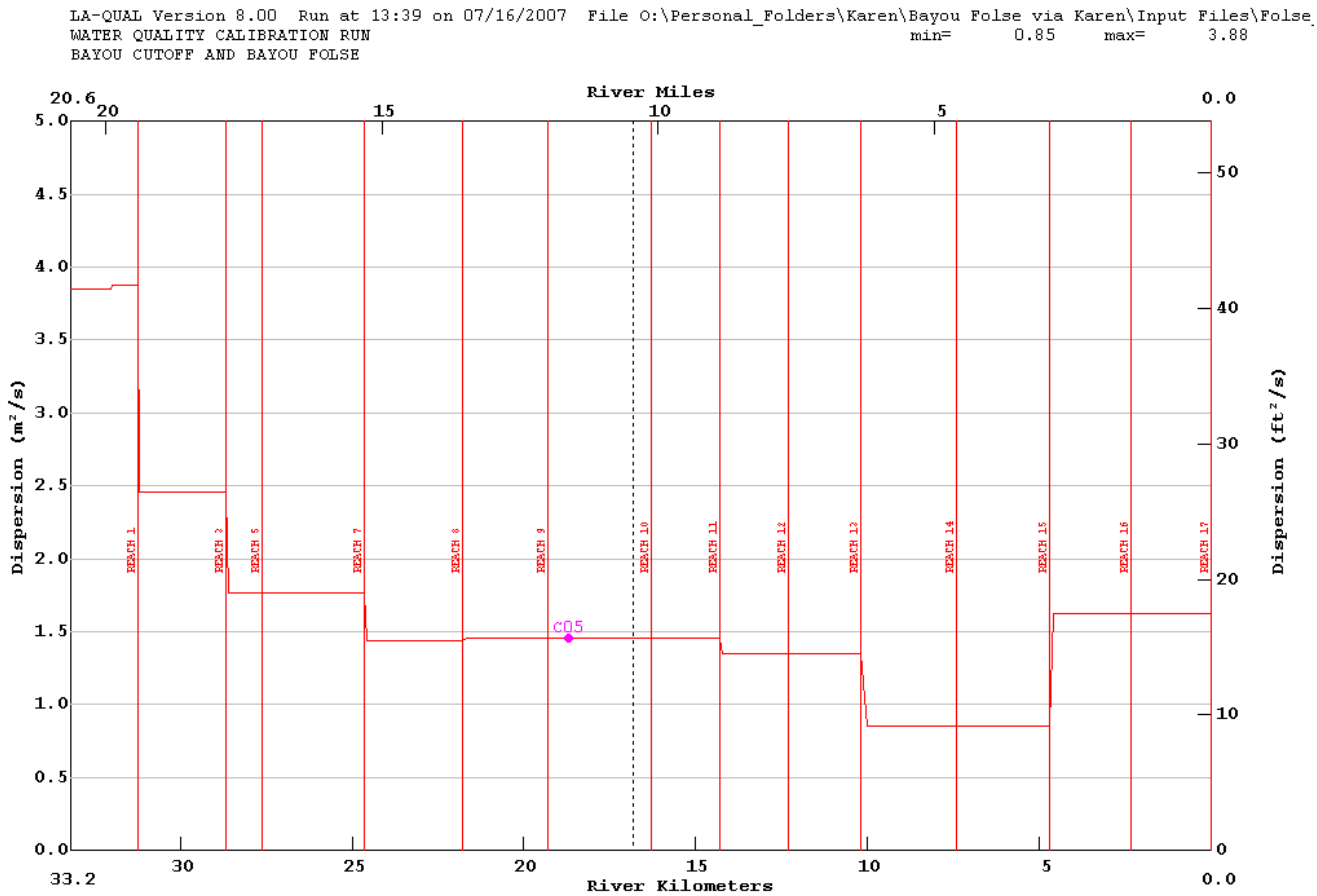
To take into consideration all modes of transport, equation 3, ($D_L = aH^bQ^cV_M^d$) in Laqual was used. Using b=5/6, c=0, and d=1 will take into account all modes of transport in the manner of the Tracor and QUAL2E equations. The value for coefficient “a” was calibrated to within the boundaries of the final dye run by setting all other parameters to the previously mentioned values.

The fraction of tide height was obtained from the Dynhyd hydrologic calibration. The equation for tidal fraction for mainstem was determined to be:

[(0.00015758)*(RKM2)] - [(0.01573894)*(RKM)] + [1.0]**

Where RKM is the middle of each reach. All documentation can be found in Appendix F6.

Figure 3. Dispersion Calibration



3.2.8 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. The initial conditions are only a starting point for the model, therefore, all values were set to the measured values. The input data and sources are shown in Appendix B2.

3.2.9 Reaeration Rates, Data Type 12

The applicability of the various reaeration equations was examined. The Texas Equation was the most applicable to Bayou Cutoff/Folse for all reaches.

3.2.10 Sediment Oxygen Demand, Data Type 12

The SOD values were achieved through calibration. The SOD value for each reach is shown in Appendix B2. The values were considered to be reasonable for this type of stream. The conversion ratio of settled CBOD and settled NBOD to SOD was considered to be one for all reaches due to the resuspension of bottom sediments.

3.2.11 Carbonaceous BOD Decay and Settling Rates, Data Type 12

The decay rates used were based on the bottle rates from the survey. Review of the measured CBOD daily values revealed two distinct CBOD components, which had varying decay rates and lag times. The first component started its decay almost immediately with decay rates ranging from 0.092 to 0.145 per day. The second component had decay rates from 0.024 to 0.039 per day. The total CBOD curves presented in Appendix F5 are the sum of the two first order equations, which were derived using the Microsoft Excel Solver and were based on the measured daily CBOD values. These two components were modeled separately as CBOD1 and CBOD2 in the LAQUAL model. The decay rates used were the average value across all reaches. The settling rates were achieved through calibration. The decay and settling rates used for each reach are shown in Appendix F5.

3.2.12 Nitrogenous BOD Decay and Settling Rates, Data Type 15

These rates are labeled NBOD Decay and Settling in the model. The decay rates used were based on the bottle rates from the survey. NBOD decay rates were fairly consistent with main stem rates ranging from 0.074 to 0.116. The decay rates used were the average value across all mainstem reaches. The settling rates were achieved through calibration. The decay and settling rates used for each reach are shown in Appendix F5.

3.2.14 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, CBOD1, CBOD2, and NBOD loads. These values are achieved through calibration. The loads determined through calibration were reasonable for this type of waterbody and geometry.

3.2.15 Headwaters, Data Types 20, 21, and 22

The Bayou Cutoff headwater flow was simulated as the DYNHYD average flow for the 24 hours prior to the sample time at BCUT-01. The data and sources are presented in Appendix B2.

3.2.16 Wasteloads, Data Types 23, 24, and 25

There are six permitted dischargers that were modeled. The other twenty dischargers are located too far away from the main stem to have a significant impact on Bayou Folse/Bayou Cutoff or do not discharge to the Bayou Folse/Cutoff watershed. In these situations, limits for these facilities are generally set by state policy. Due to the fact that these facilities have a minimal impact on the named 303(d) listed waterbody, they were not modeled and will remain at their current permit limits and will continue to be permitted by state policy.

The six dischargers were modeled at expected flow levels. The water quality was set to permit limits. Three were combined/composited and called Dugas Canal.

3.2.17 Boundary Conditions, Data Type 27

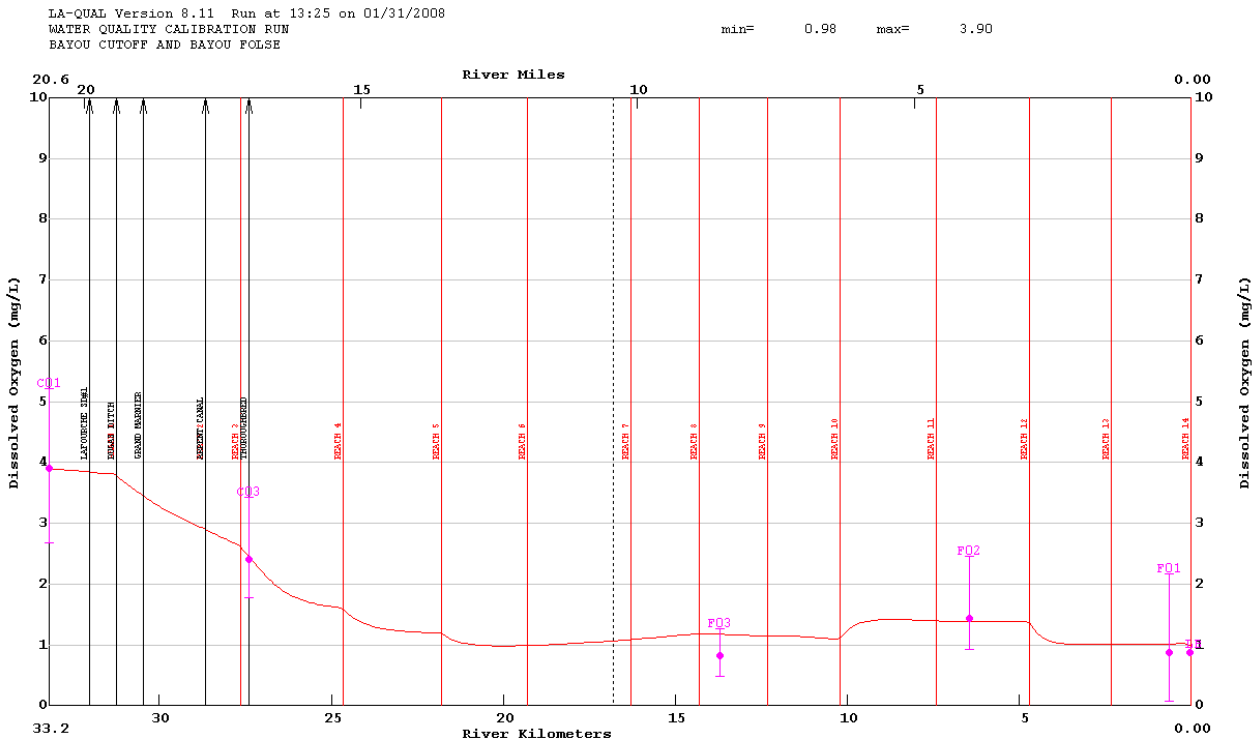
The lower boundary conditions were assumed to be equivalent to the measurements taken at survey station BFOL-01 except for Chlorophyll a. No chlorophyll a measurements were taken at this site, so the chlorophyll a was achieved through calibration.

3.3 Model Discussion and Results

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 Figure 3. The calibration points for DO were the continuous monitoring readings obtained. The calibration points for CBOD1, CBOD2, and NBOD were the measured values from the water quality samples. The calibration points for conductivity were the insitu readings. The calibration points for the chlorides and chlorophyll A were the measured values from the water quality samples. Marginal calibrations were achieved for the chlorides and conductivity. An adequate reference stream to determine background conditions for the model was not available.

A good calibration was achieved for DO, UCBOD1, UCBOD2, and NBOD on the main stem. The calibration model shows that during June 2004 survey period, the DO standard of 5 mg/l was not being met in subsegment 120302 in any of the reaches. The calibration model minimum DO on the main stem was 0.98 mg/l. The low dissolved oxygen levels can mainly be attributed to the naturally dystrophic conditions present and to periodic stormwater conveyance.

Figure 4. 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

4. Water Quality Projections

Summer and winter projections were performed for the current DO standard of 5.0 mg/L. This scenario was based on reduced nonpoint loads at summer season critical conditions (ie. 90th percentile seasonal temperatures and 7Q10 flows) in accordance with the LTP. A winter projection was run based on the percent reduction of nonpoint loads used for summer critical projections.

4.1 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 Folse/Bayou Cutoff, subsegment 120302 TMDL, an analysis of LDEQ ambient data has been employed to determine critical seasonal conditions and an appropriate margin of safety.

Critical conditions for dissolved oxygen were determined for Bayou Folse/Bayou Cutoff using water quality data from Bayou Folse/Bayou Cutoff water quality site number 0341 on the LDEQ Ambient Monitoring Network. The 90th percentile temperature for each season and the corresponding 90% of saturation DO was determined. Ambient temperature data, critical temperature and DO saturation determinations 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 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 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. 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 mechanism for changing this normal benthic blanket condition is to implement best management practices and reduce the amount of nonpoint source loading entering the stream and feeding the benthic blanket.

Critical season conditions were simulated in the Bayou Folse/Bayou Cutoff, subsegment 120302 dissolved oxygen TMDL projection modeling by using the LTP seasonal defaults for all tributary flow, 1/3 average tidal flow for the headwater, and the 90th percentile temperature. For the headwater DO, the 90% of DO Sat from the ambient monitoring site was used.

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.

4.2 Input Data Documentation

The LTP states that the flow for summer conditions should be 0.1 cfs or the 7Q10, whichever is greater. However, it also states that more appropriate critical conditions may be selected. A 7Q10 value cannot be determined for Bayou Folse because of tidal influences. Therefore, the critical flow was calculated based upon 1/3 average tidal flow. This is consistent with the regulations, LAC 33:IX.1115. For summer projections, the tributary flow was set to 0.1 cfs as per LTP default. For winter projections, the tributary flow was set to 1.0 cfs as per LTP default.

Critical conditions include dissolved oxygen, temperature and flow. Pollutant loading is adjusted in the projection models to meet the dissolved oxygen criteria. A suitable reference stream was not available to determine the natural background loads.

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 model projects the width and depth values based upon the streamflow.

4.2.1 Model Options, Data Type 2

Four constituents were modeled during the projection process. These were dissolved oxygen, the two components of carbonaceous biochemical oxygen demand, and nitrogenous biochemical oxygen demand.

4.2.2 Temperature Correction of Kinetics, Data Type 4

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

4.2.3 Reach Identification Data, Data Type 8

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

4.2.4 Advective Hydraulic Coefficients, Data Type 9

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

4.2.5 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 30.94^{o}C. For winter, the temperature was set to 22.24^{o}C. The dissolved oxygen values for the initial conditions were set at the stream criteria (5mg/L) with the exception of the headwater dissolved oxygen value. The headwater DO was set to 90% DO Sat for WQN 0341. The headwater DO for summer was set to 6.69 mg/L. The headwater DO for winter was set to 7.83 mg/L.

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

The reaeration rate equations, CBOD1 and CBOD2 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.

4.2.8 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 gm-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. It is LDEQ's opinion that 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 our 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 it's potency for a five day period. LDEQ felt a five day test would not adequately depict the water quality of streams.

This proposed 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.

LDEQ implemented the new test method during the 2000 survey season. 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 sum of reference stream benthic loads as background values. Again, background values can not be quantified for Bayou Folse/Bayou Cutoff.

The resuspended total nonpoint CBOD1, CBOD2, and NBOD loading was reduced by 90% for all reaches in the summer critical projection scenario to meet the proposed summer water quality criterion of 5 mg/L dissolved oxygen. 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 non-critical winter projection.

The reductions were determined using the calibrated values for nonpoint CBOD1, CBOD2, 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 CBOD1, CBOD2, 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 CBOD1, CBOD2, and NBOD for each projection run are presented in Appendix F5.

4.2.12 Boundary Conditions, Data Type 27

The lower boundary conditions were set at the 90th percentile critical season temperature, the dissolved oxygen criteria, and the measured stream UCBOD and UNBOD loads for all projections and scenarios.

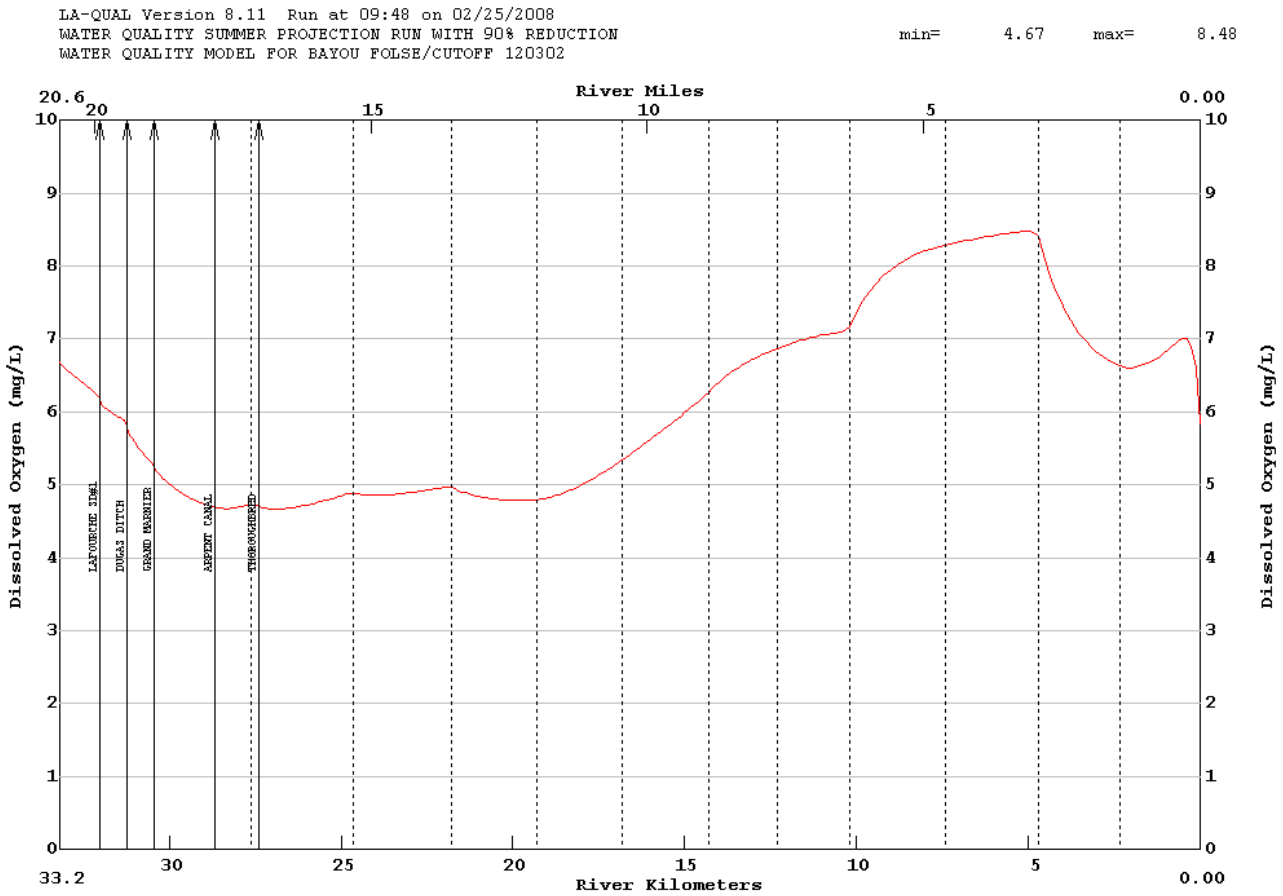
4.3 Model Discussion and Results

The projection model input and output data sets are presented in Appendix D.

4.3.1 Summer Projection

Summer critical season projections were run for the current standard of 5.0 mg/L May – October. In order to meet the standard, a 90% reduction of total nonpoint sources is necessary. Since a suitable reference stream was not available, it was not possible to determine exactly the natural background loading. However, experience in this Basin indicates that a 90% removal of the total benthic load would involve a reduction in the background loading. Even with this percentage reduction in the benthic oxygen loads, Bayou Folse cannot meet the dissolved oxygen criterion. The minimum DO on the main stem is 4.67 mg/L at a 90% reduction. The existing point sources have no significant impact and will remain at their current permitted loads. A graph of the dissolved oxygen concentration versus river kilometer for the summer projection is presented in Figure 5.

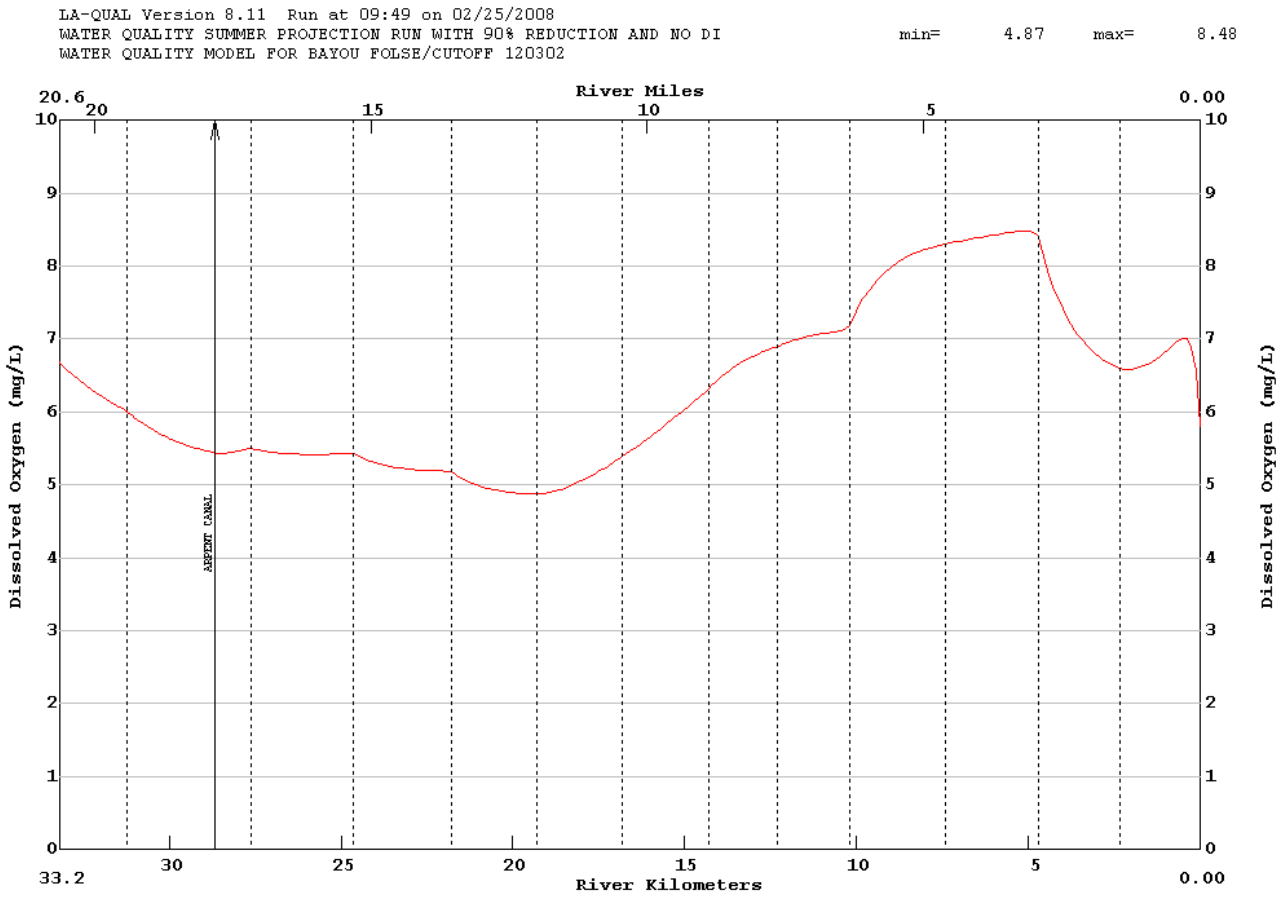
Figure 5. Summer Projection at 90% Removal of NPS Loads



4.3.3 Summer Projection without dischargers on mainstem.

A summer projection was run without dischargers to determine their impact on the mainstem. The results indicate that the dischargers do not have any significant impact on the mainstem, and therefore will stay at their current limits. The minimum DO on the main stem is 4.87 mg/L.

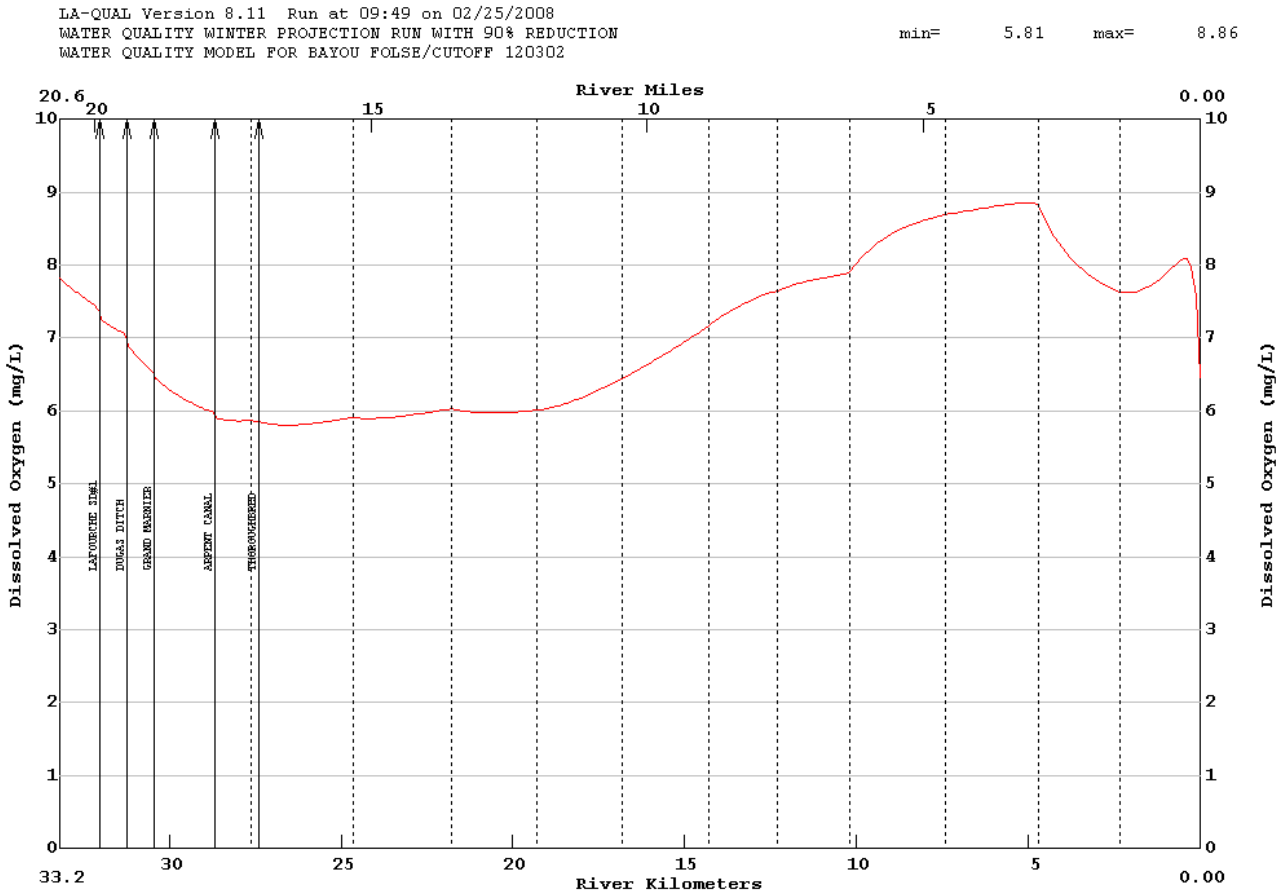
Figure 6. Summer Projection at 90% Removal of NPS Loads and no dischargers



4.3.3 Winter Projection

The results of the model show that the water quality criterion for dissolved oxygen of Bayou Folse of 5.0 mg/l can be maintained during the winter critical season. The minimum dissolved oxygen is 5.81 mg/l. To achieve the criterion, the model assumed a 90% reduction in the total nonpoint loading. Since a suitable reference stream was not available, it was not possible to determine exactly the natural background loading. However, experience in this Basin indicates that a 90% removal of the total benthic load would involve a reduction in the background loading. A graph of the dissolved oxygen concentration versus river kilometer for the winterprojection is presented in Figure 6.

Figure 7. Winter Projection at 90% Removal of NPS Loads



4.4 Calculated TMDL, WLAs and Las

4.4.1 Outline of TMDL Calculations

An outline of the TMDL calculations is provided to assist in understanding the calculations in the Appendices. Slight variances may occur based on individual cases.

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

4.4.1.2 The calibration man-made benthic loading was determined as follows:

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

4.4.1.3 Projection benthic loads are determined by trail and error during the modeling process using a uniform percent reduction for resuspension and SOD. 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%. 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 percent reduction as the benthic loads.

- 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.

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

- 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.

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

4.4.1.4 The total stream loading capacity at critical water temperature is calculated as the sum of:

- Headwater and tributary CBOD and NBOD loading in lb/d and kg/d.

- The natural and man-made projection benthic loading for all reaches of the stream is converted to the loading at critical temperature and summed in lb/d and kg/d.

- Point source CBOD and NBOD loading in lb/d and kg/d.

- The margin of safety in lb/d and kg/d.

4.4.2 Bayou Folse/Bayou Cutoff, Subsegment 120302 TMDL

The TMDL for the biochemical oxygen demanding constituents (CBOD1, CBOD2, NBOD, and SOD), have been calculated for the summer and winter critical seasons. The Summer TMDL for the Bayou

Folse/Bayou Cutoff, Subsegment 120302 watershed was set equal to the total stream loading capacity. They are presented in Appendix A by reach. A summary of the loads is presented in Table 6.

Table 6. Total Maximum Daily Load (Sum of UCBOD[1], UNBOD, and SOD)

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAR-NOV) (lbs/day)	% Reduction Required	(DEC-FEB) (lbs/day)
Point Source WLA	0	346	0	346
Point Source Reserve MOS (20%)		86		86
Nonpoint Source LA	90	320	90	260
Nonpoint Source Reserve MOS (20%)		79		64
TMDL		831		756

***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 bas ed on $CBOD_5$***

Bayou Folse WLA Allocations		
Facility	WLA (kg/day)	WLA(lbs/day)
Lafourche SD#1	45	99
Lafourche PH WD #1	54	119
Lafourche Par SD #14	13	29
Community Sewer Service	11	24
Grand Marnier Subdivision	21	46
Thoroughbred Park Subdivision	13	29
TOTAL	**157**	**346**

5. 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 Centigrade.

Values reported in Appendix I2 are percentage variation of minimum DO in the main stem Bayou Folse/Bayou Cutoff. As shown in Table 8, stream reaeration, and benthal demand are the parameters

to which DO is most sensitive. The model is slightly sensitive to insensitive to the remaining parameters.

Table 7. Summary of Calibration Model Sensitivity Analysis

SENSITIVITY ANALYSIS SUMMARY

BAYOU CUTOFF AND BAYOU FOLSE
WATER QUALITY SENSITIVITY RUN ON CALIBRATION

Plot 1 Base Model Minimum DO = 0.98

Parameter	%Param Chg	Min D.O.	%D.O. Chg	%Param Chg	Min D.O.	%D.O. Chg
Stream Baseflow	30.	1.01	3.3	-30.	0.90	-7.8
Initial Chorophyll a	30.	1.00	2.3	-30.	0.94	-4.5
Stream Velocity	30.	0.96	-2.2	-30.	0.98	0.5
Initial Temperature	2.	0.91	-7.4	-2.	1.03	4.9
CBOD Aerobic Decay Rate	30.	0.97	-0.7	-30.	0.99	0.8
CBOD2 Aerobic Decay Rate	30.	0.98	-0.1	-30.	0.98	0.1
CBOD Settling Rate	30.	0.98	-0.1	-30.	0.98	-0.2
CBOD2 Settling Rate	30.	0.98	0.0	-30.	0.98	0.0
NBOD Decay Rate	30.	0.98	0.0	-30.	0.98	0.0
NBOD Settling Rate	30.	0.98	0.0	-30.	0.98	-0.1
Benthal Demand	30.	0.84	-14.4	-30.	1.14	16.5
Stream Dispersion	30.	0.97	-0.8	-30.	0.98	0.5
Stream Reaeration	30.	1.13	15.6	-30.	0.72	-26.0
Headwater Flow	30.	1.01	3.3	-30.	0.90	-7.8
Headwater DO	30.	0.98	0.0	-30.	0.98	0.0
Headwater CBOD	30.	0.96	-1.7	-30.	0.98	0.1
Headwater CBOD2	30.	0.97	-0.9	-30.	0.98	0.1
Headwater NBOD	30.	0.98	0.0	-30.	0.98	0.0
Stream Depth	30.	0.94	-4.1	-30.	0.98	0.4
Wasteload Flow	30.	0.98	0.1	-30.	0.98	0.0
Wasteload Temperature	2.	0.98	0.0	-2.	0.98	0.0
Wasteload DO	30.	0.98	0.0	-30.	0.98	0.0
Wasteload CBOD	30.	0.98	0.0	-30.	0.98	0.0
Wasteload CBOD2	30.	0.98	0.0	-30.	0.98	0.0
Wasteload NBOD	30.	0.98	0.0	-30.	0.98	0.0
Lower Boundary Temperature	2.	0.98	0.0	-2.	0.98	0.0
Lower Boundary DO	30.	0.99	0.6	-30.	0.90	-8.4
Lower Boundary CBOD	30.	0.97	-0.5	-30.	0.98	0.5
Lower Boundary CBOD2	30.	0.98	-0.2	-30.	0.98	0.2
Lower Boundary NBOD	30.	0.98	0.0	-30.	0.98	0.0

6. Conclusions

This TMDL establishes load limitations for oxygen-demanding substances and goals for reduction of those pollutants. LDEQ's position, as supported by the declaratory ruling issued by Secretary Givens in response to the lawsuit regarding water quality criteria for nutrients (Sierra Club v. Givens, 710 So.2d 249 (La. App. 1st Cir. 1997), writ denied, 705 So.2d 1106 (La. 1998), is that when oxygen-demanding substances are controlled and limited in order to ensure that the dissolved oxygen criterion is supported, nutrients are also controlled and limited. 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 control and reduce the nutrient loading from those sources.

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 Folse/Bayou Cutoff, subsegment 120302 to comply with its established water quality standards and criteria. This report presents the results of that analysis. For Bayou Folse/Bayou Cutoff, we surmise that the stream could not meet a 5.0 mg/L standard for dissolved oxygen even at background conditions. Since a suitable reference stream was not available, it was not possible to determine exactly the natural background loading. However, experience in this Basin indicates that a 90% removal of the total benthic load would involve a reduction in the background loading. Therefore, it is recommended that a useattainability analysis be conducted for this stream to determine a more appropriate dissolved oxygen standard.

The existing point sources have little to no impact on the main stem of Bayou Folse and require no changes to their permitted discharges.

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 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 Surveillance Section 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 replaces 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 at the end of each year, waterbodies may be added to or removed from the 303(d) list.

7. References

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8. Appendices

Appendix A – Detailed TMDL Analysis

Appendix A1 – Summer TMDL Summary

Summer TMDL Summary:

BAYOU FOLSE (SUBSEGMENT 12302)

Calculation of the TMDL - Kilograms per day

Load description	WLA (kg O_2/day)	CBOD1 LA (kg O_2/day)	CBOD2 LA (kg O_2/day)	Organic-N LA (kg/day)	Ammonia-N LA (kg/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	157								39
Headwater / Tributatary loads		17	12	0	0	7		36	9
Benthic loads		25	12	0	0	6	66	109	27
Incremental Loads		0	0	0	0	0		0	0
SUB-TOTAL	**157**	**42**	**24**	**0**	**0**	**13**	**66**	**145**	**75**
TMDL = WLA + LA + MOS								***377 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)	CBOD2 LA (lbs O_2/day)	Organic-N LA (lbs/day)	Ammonia-N LA (lbs/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	346								86
Headwater / Tributatary loads		37	26	0	0	15		79	20
Benthic loads		55	26	0	0	13	146	240	60
Incremental Loads		0	0	0	0	0		0	0
SUB-TOTAL	**346**	**92**	**52**	**0**	**0**	**28**	**146**	**319**	**166**
TMDL = WLA + LA + MOS								***831 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)	CBOD2 LA (kg O_2/day)	Organic-N LA (kg/day)	Ammonia-N LA (kg/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	157								39
Natural Nonpoint Loads		0	0	0	0	0	0	0	
Manmade Nonpoint Loads		42	24	0	0	13	66	145	36
SUB-TOTAL	**157**	**42**	**24**	**0**	**0**	**13**	**66**	**145**	**75**
TMDL = WLA + LA + MOS								***377 kg/day***	

Calculation of the TMDL - Pounds per day

Load description	WLA (lbs O_2/day)	CBOD1 LA (lbs O_2/day)	CBOD2 LA (lbs O_2/day)	Organic-N LA (lbs/day)	Ammonia-N LA (lbs/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	346								86
Natural Nonpoint Loads		0	0	0	0	0	0	0	
Manmade Nonpoint Loads		93	53	0	0	29	146	320	79
SUB-TOTAL	**346**	**93**	**53**	**0**	**0**	**29**	**146**	**320**	**165**
TMDL = WLA + LA + MOS								***831 lbs/day***	

Appendix A2 – Winter TMDL Summary

Winter TMDL Summary:

BAYOU FOLSE (SUBSEGMENT 12302)

Calculation of the TMDL - Kilograms per day

Load description	WLA (kg O_2/day)	CBOD1 LA (kg O_2/day)	CBOD2 LA (kg O_2/day)	Organic-N LA (kg/day)	Ammonia-N LA (kg/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	157								39
Headwater / Tributatary loads		18	12	0	0	7		37	9
Benthic loads		25	12	0	0	6	38	81	20
Incremental Loads		0	0	0	0	0		0	0
SUB-TOTAL	**157**	**43**	**24**	**0**	**0**	**13**	**38**	**118**	**68**
TMDL = WLA + LA + MOS								***343 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)	CBOD2 LA (lbs O_2/day)	Organic-N LA (lbs/day)	Ammonia-N LA (lbs/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	346								86
Headwater / Tributatary loads		40	26	0	0	15		82	20
Benthic loads		55	26	0	0	13	84	179	44
Incremental Loads		0	0	0	0	0		0	0
SUB-TOTAL	**346**	**95**	**52**	**0**	**0**	**28**	**84**	**261**	**150**
TMDL = WLA + LA + MOS								***757 lbs/day***	

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

Calculation of the TMDL - Kilograms per day

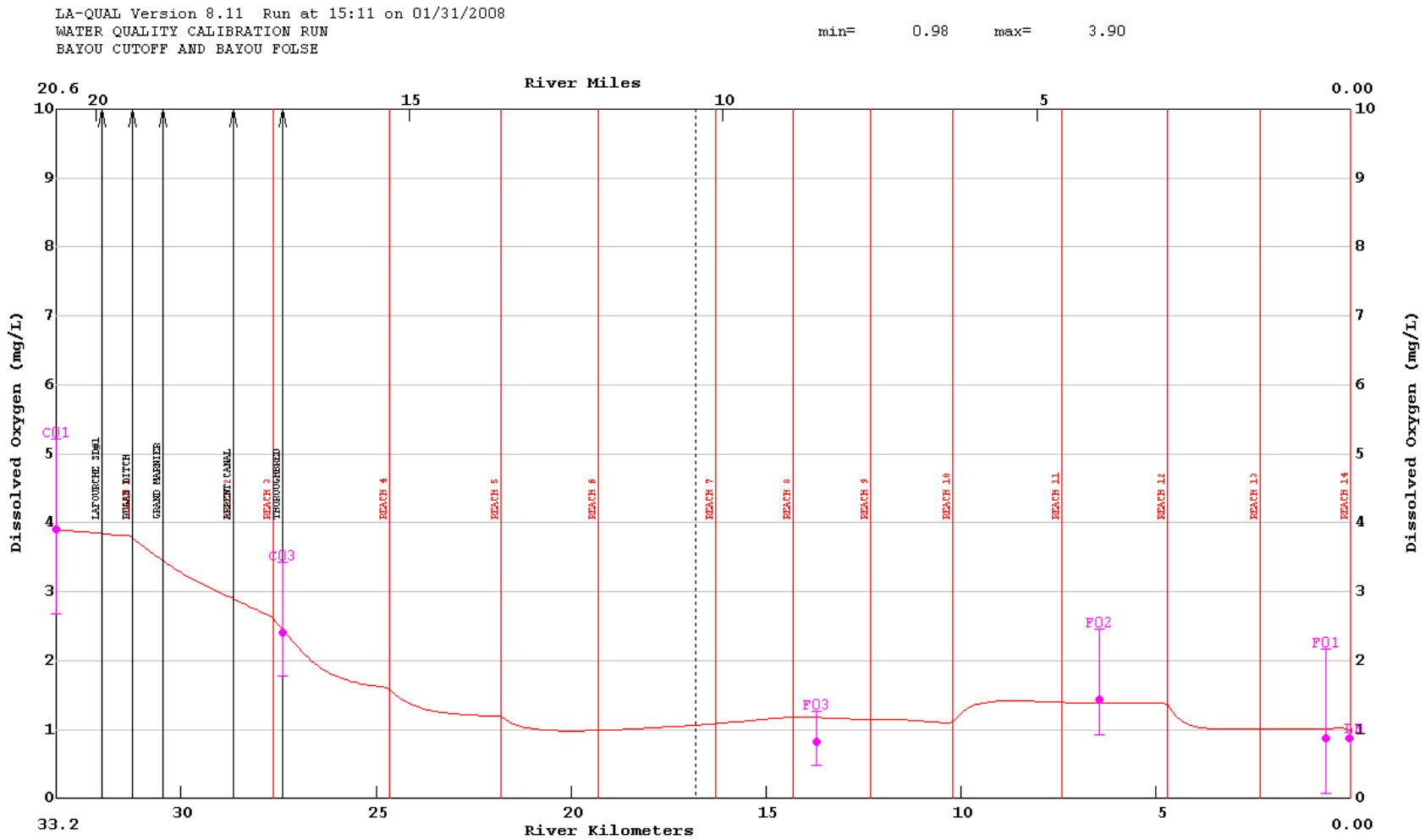
Load description	WLA (kg O_2/day)	CBOD1 LA (kg O_2/day)	CBOD2 LA (kg O_2/day)	Organic-N LA (kg/day)	Ammonia-N LA (kg/day)	NBOD LA (kg O_2/day)	SOD LA (kg O_2/day)	LA (kg O_2/day)	MOS Load (kg O_2/day)
Point Source loads	157								39
Natural Nonpoint Loads		0	0	0	0	0	0	0	
Manmade Nonpoint Loads		42	24	0	0	14	38	118	29
SUB-TOTAL	**157**	**42**	**24**	**0**	**0**	**14**	**38**	**118**	**68**
TMDL = WLA + LA + MOS								***343 kg/day***	

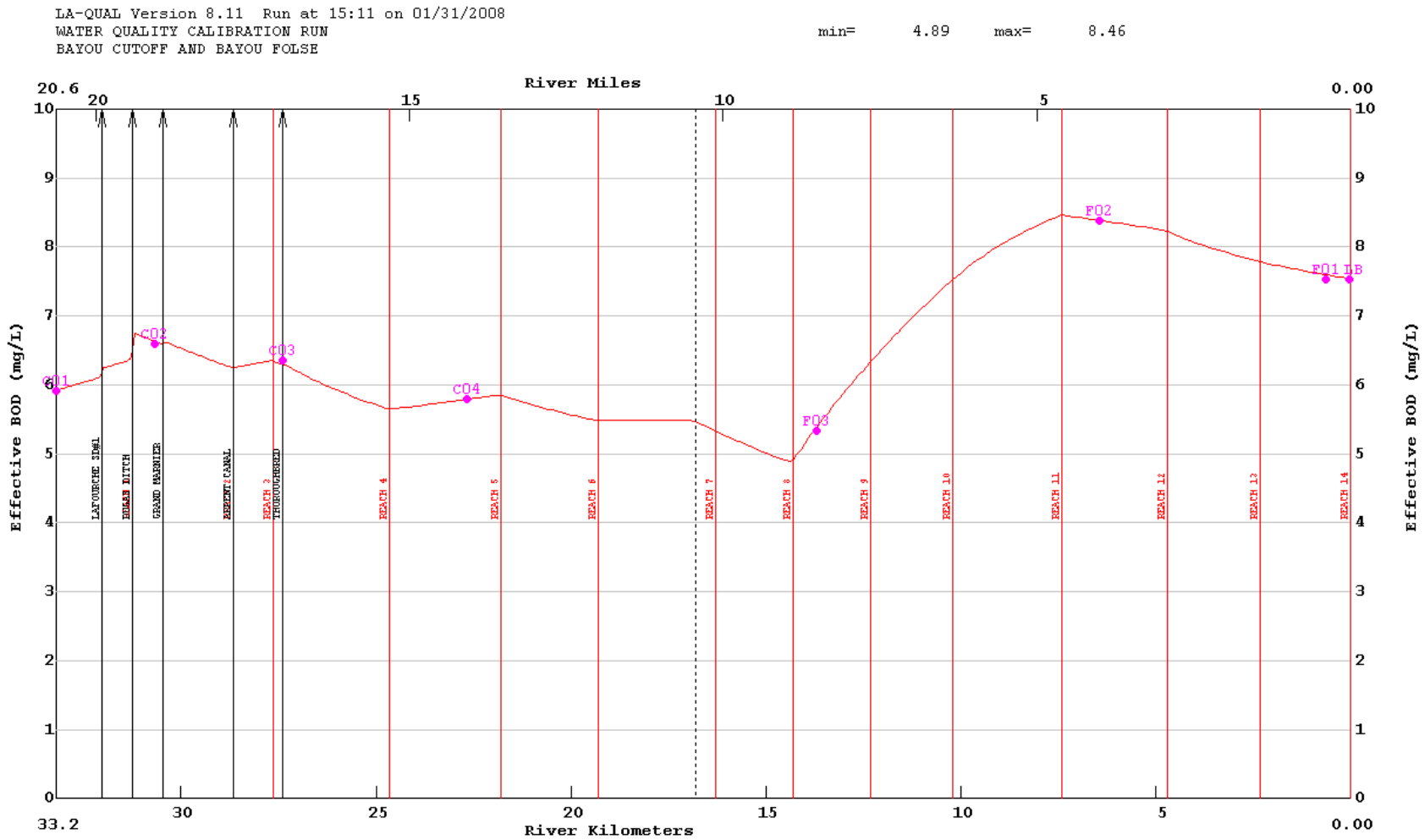
Calculation of the TMDL - Pounds per day

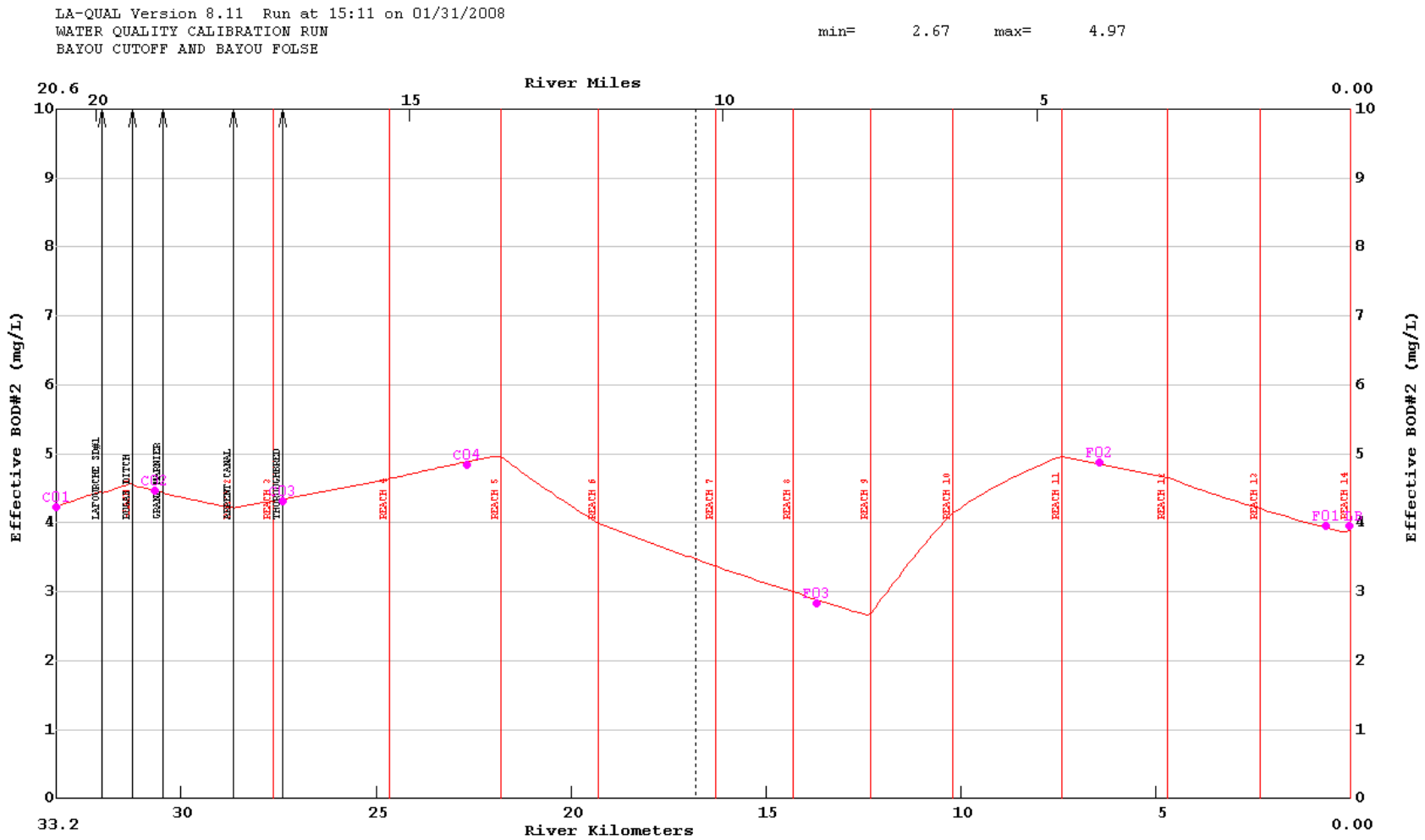
Load description	WLA (lbs O_2/day)	CBOD1 LA (lbs O_2/day)	CBOD2 LA (lbs O_2/day)	Organic-N LA (lbs/day)	Ammonia-N LA (lbs/day)	NBOD LA (lbs O_2/day)	SOD LA (lbs O_2/day)	LA (lbs O_2/day)	MOS Load (lbs O_2/day)
Point Source loads	346								86
Natural Nonpoint Loads		0	0	0	0	0	0	0	
Manmade Nonpoint Loads		93	53	0	0	31	84	260	64
SUB-TOTAL	**346**	**93**	**53**	**0**	**0**	**31**	**84**	**260**	**150**
TMDL = WLA + LA + MOS								***756 lbs/day***	

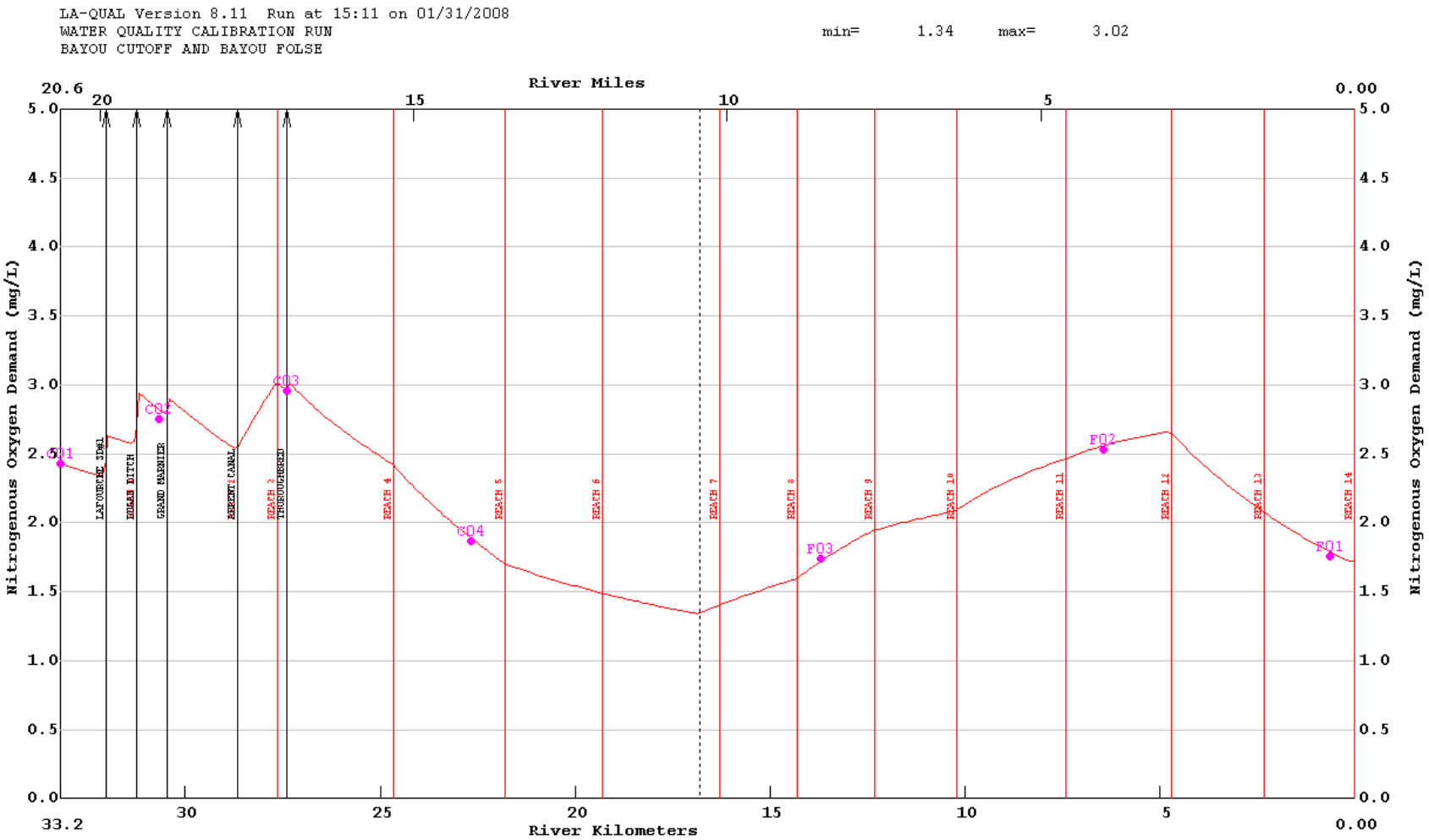
Appendix B – Calibration Model Input and Output Data Sets

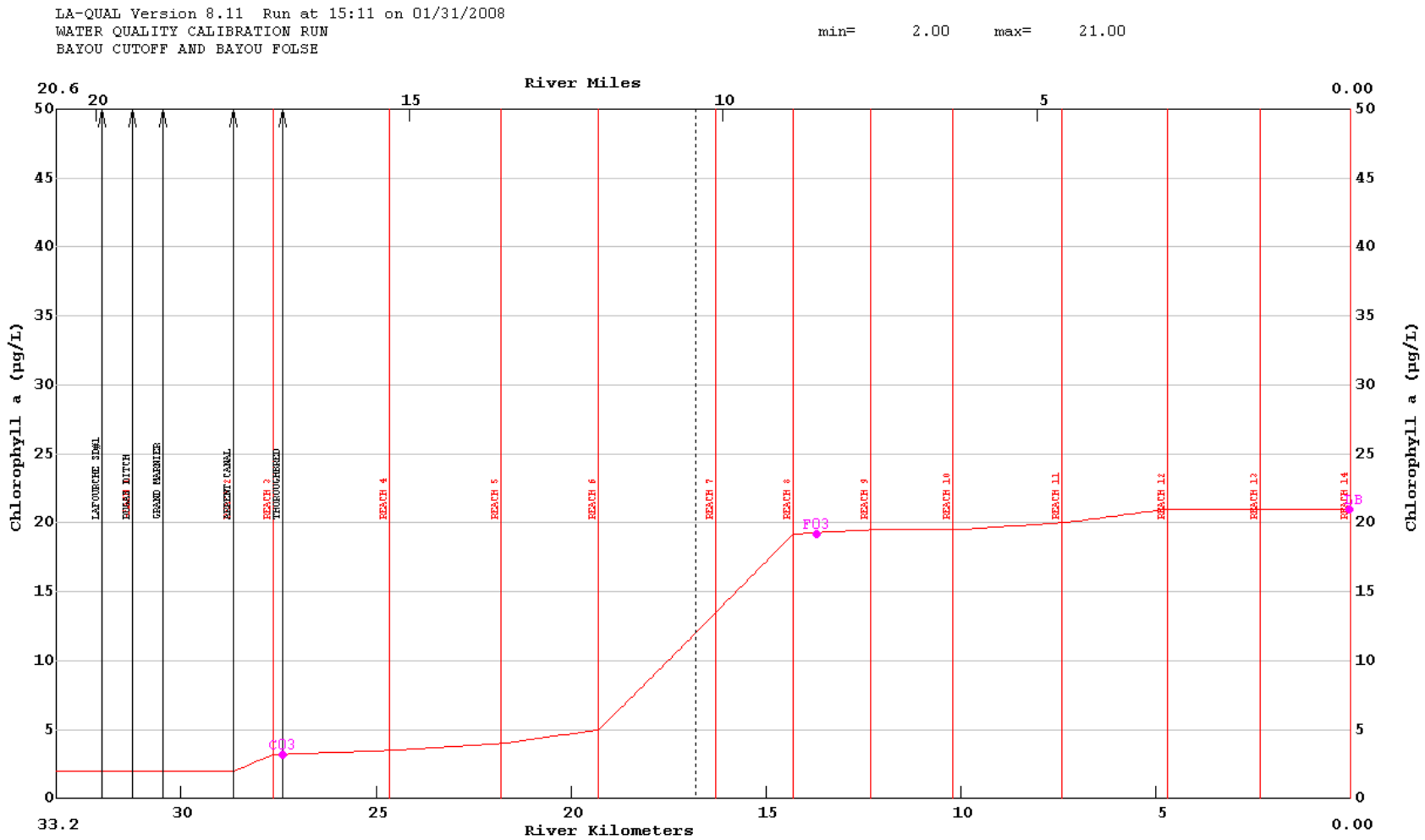
Appendix B1 – Calibration Output Graphs and Input, Overlay, and Output Files


LA-QUAL Version 8.11 Run at 15:11 on 01/31/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
min= 0.98 max= 3.90
River Miles
River Kilometers
Dissolved Oxygen (mg/L)
20.6
0.00
33.2
0.00
CQ1
CQ3
FQ1
FQ2
FQ3
LAFOURCHE SD#1
EDGAR DITCH
GRAND MARNIER
REACH 2
THOROUGHBRED
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14

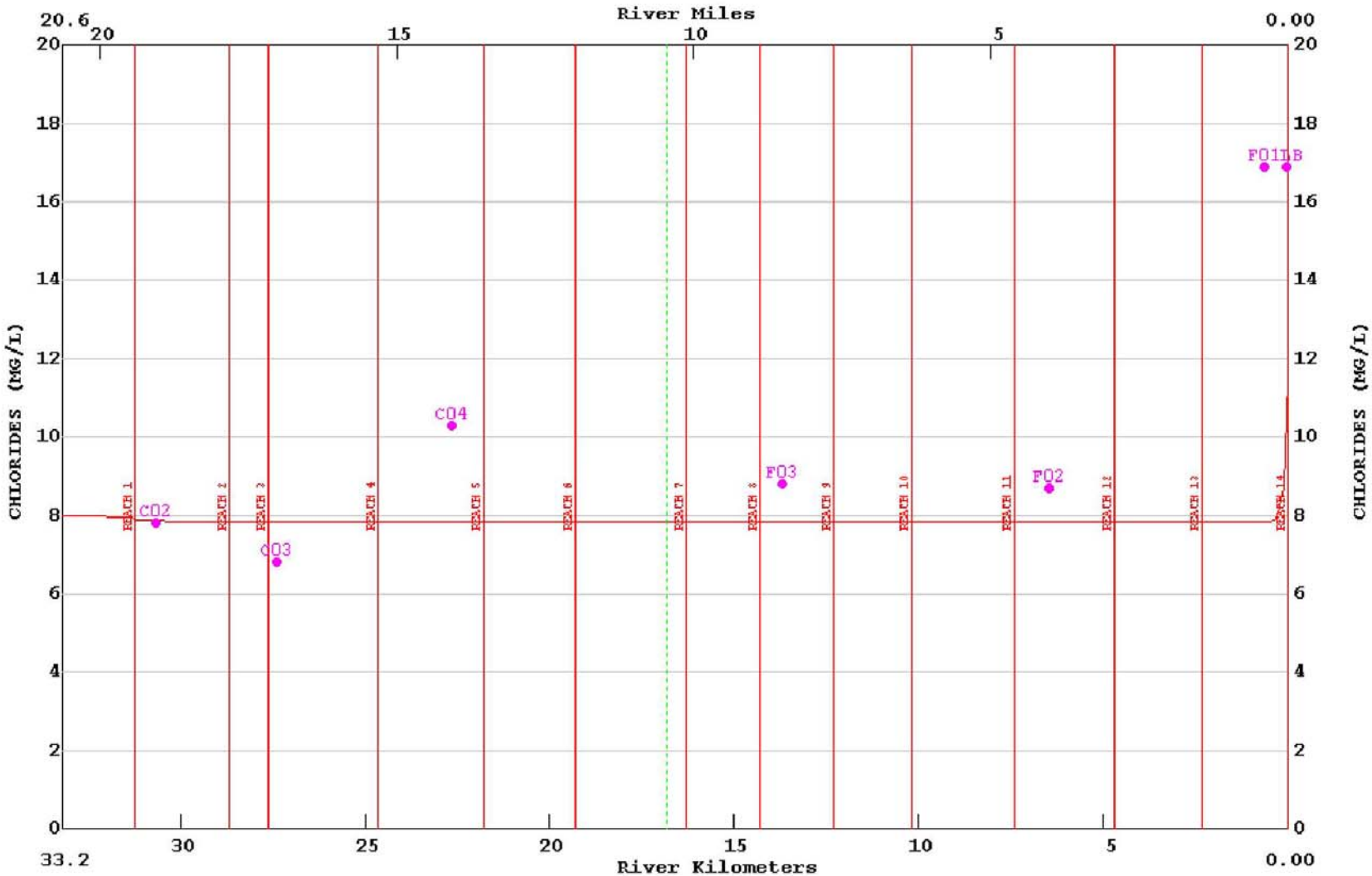

LA-QUAL Version 8.11 Run at 15:11 on 01/31/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
min= 4.89 max= 8.46
River Miles
River Kilometers
Effective BOD (mg/L)
CO1
CO2
CO3
CO4
FO2
FO1 LB
LAFOURCHE SD#1
EDGAR DITCH
GRAND BARRIER
REACH 2
THOROUGHBRED
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14


LA-QUAL Version 8.11 Run at 15:11 on 01/31/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
min= 2.67 max= 4.97
River Miles
River Kilometers
Effective BOD#2 (mg/L)
20.6
0.00
33.2
C01
C02
C03
C04
F01
F02
F03

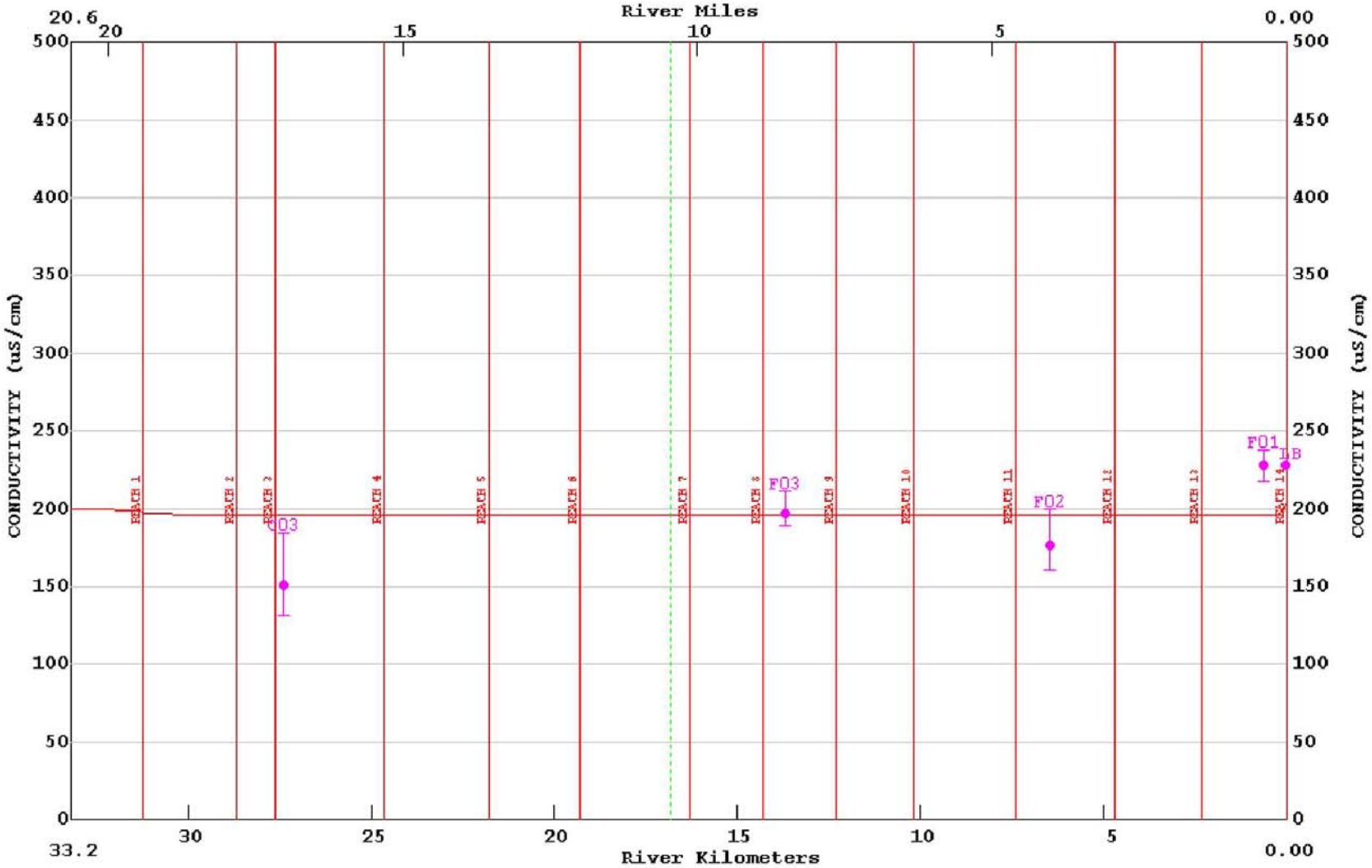

LA-QUAL Version 8.11 Run at 15:11 on 01/31/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
min= 1.34 max= 3.02
River Miles
River Kilometers
Nitrogenous Oxygen Demand (mg/L)
CQ1
CQ2
CQ3
CQ4
FQ1
FQ2
FQ3
LAFOURCHE STREET
EDGAR DITCH
GRAND MARNIER
REACH 2
THOROUGHBRED
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14

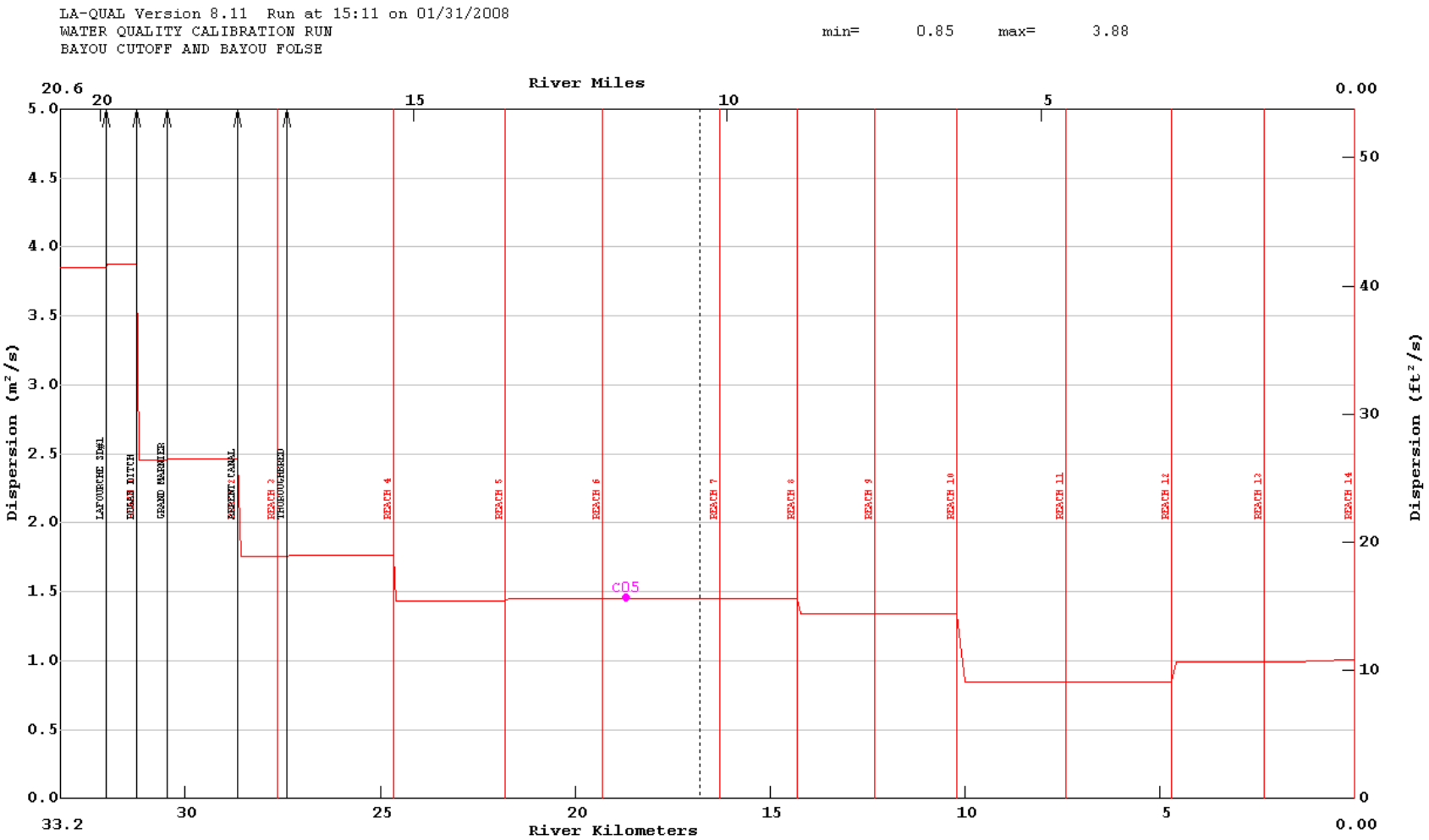

LA-QUAL Version 8.11 Run at 15:11 on 01/31/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
min= 2.00 max= 21.00
River Miles
20.6
0.00
Chlorophyll a (µg/L)
LAFOURCHE SD#1
EDGAR DITCH
GRAND MARNIER
BERRY CANAL
REACH 2
THIBODOCHEAUX
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14
C03
FO3
B
33.2
River Kilometers

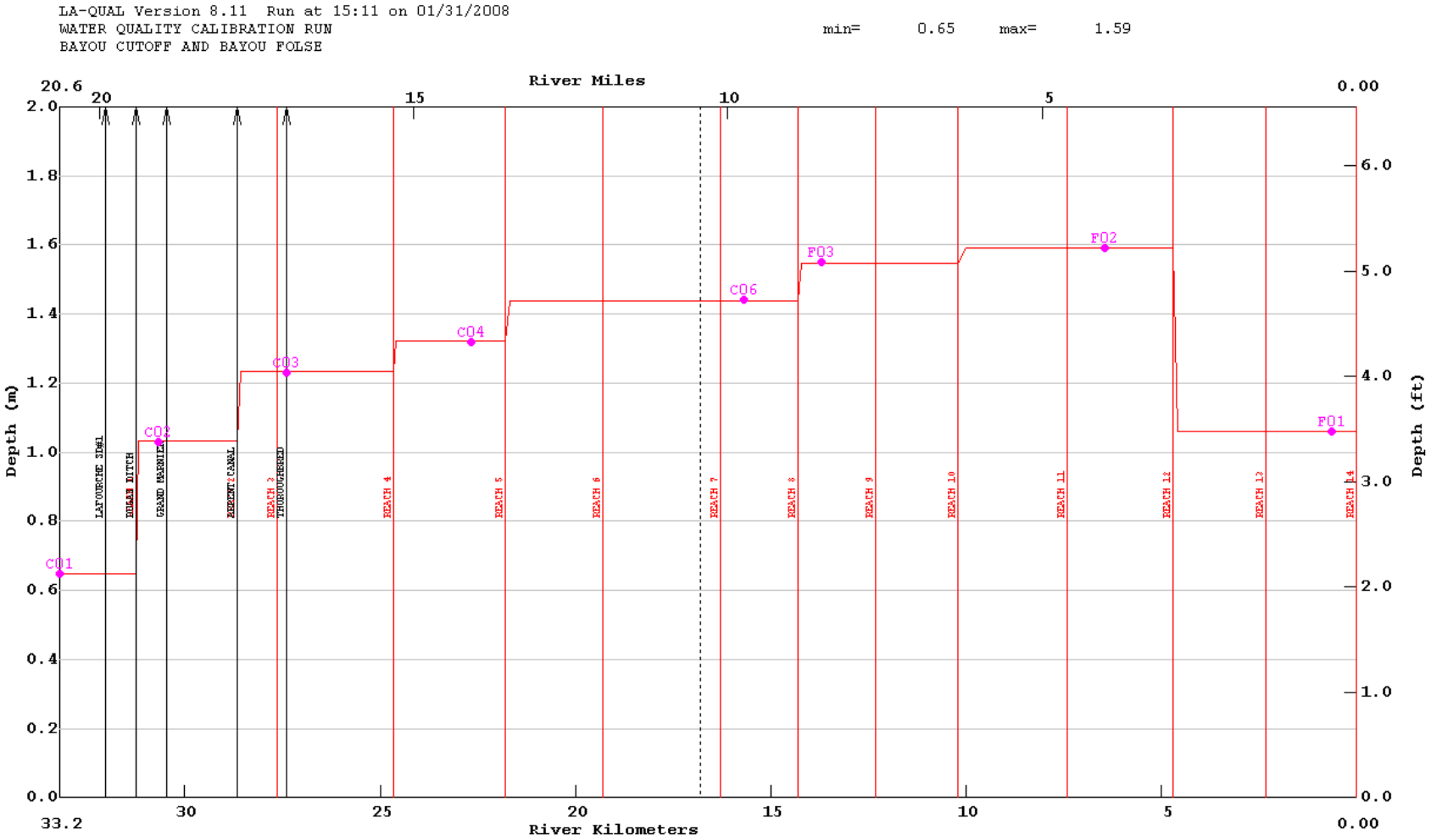
LA-QUAL Version 8.11 Run at 19:52 on 02/23/2008 File C:\laqual\Folsecal.txt
WATER QUALITY CALIBRATION RUN min= 7.84 max= 11.46
BAYOU CUTOFF AND BAYOU FOLSE

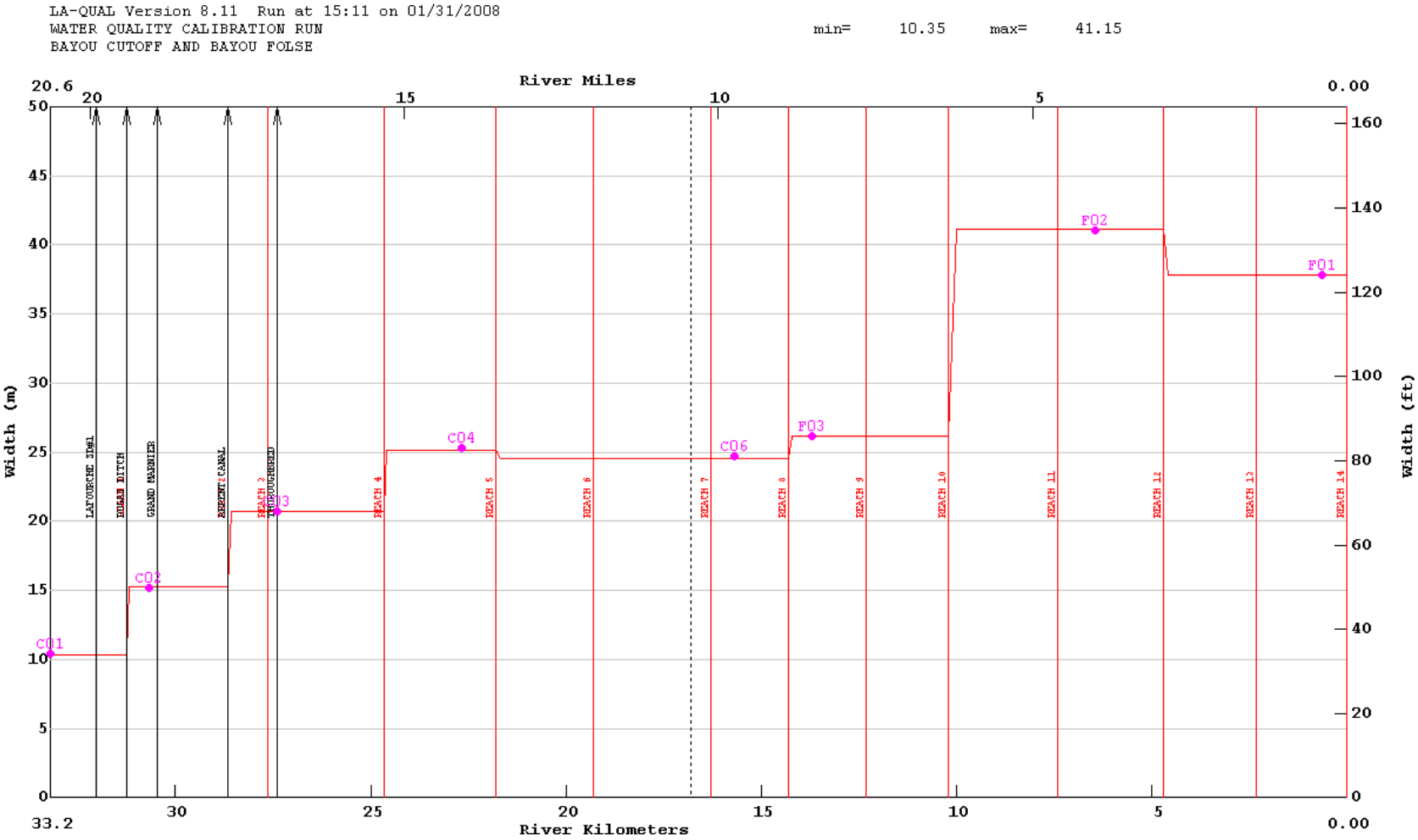


LA-QUAL Version 8.11 Run at 19:43 on 02/23/2008 File C:\laqual\Folsecal.txt
WATER QUALITY CALIBRATION RUN min= 196.00 max= 204.78
BAYOU CUTOFF AND BAYOU FOLSE




LA-QUAL Version 8.11 Run at 15:11 on 01/31/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
min= 0.85 max= 3.88
River Miles
20.6
20
15
10
5
0.00
Dispersion (m²/s)
Dispersion (ft²/s)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
50
40
30
20
10
0
LAFOURCHE SD#1
EDGAR DITCH
GRAND MARMIER
REACH 2
THOROUGHBRED
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14
C05
33.2
30
25
20
15
10
5
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 15:11 on 01/31/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
min= 0.65 max= 1.59
River Miles
River Kilometers
Depth (m)
Depth (ft)
CO1
CO2
CO3
CO4
CO6
FO1
FO2
FO3
LAFOURCHE SPUR
EDGAR DITCH
GRAND MARAIS
REACH 2
THOROUGHBRED
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14


LA-QUAL Version 8.11 Run at 15:11 on 01/31/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
min= 10.35 max= 41.15
River Miles
River Kilometers
Width (m)
Width (ft)
20.6
33.2
0.00
LAFOURCHE SPWL
EDGAR DITCH
GRAND MARMITER
ASSUMPT CANAL
REACH 2
THROUGHBRED
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14
CO1
CO2
CO3
CO4
CO6
FO3
FO2
FO1

BAYOU FOLSE/BAYOU CUTOFF Calibration Input File

```
CNTROL01     WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
CNTROL02     WATER QUALITY CALIBRATION RUN
CNTROL12 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CONDUCTIVITY               IN uS/cm
MODOPT04 YES CONSERVATIVE MATERIAL II = CHLORIDES                  IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07 YES BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT09  NO PHOSPHORUS
MODOPT10  NO CHLOROPHYLL A
MODOPT11  NO MACROPHYTES
MODOPT12  NO COLIFORM
MODOPT13  NO NONCONSERVATIVE MATERIAL
ENDATA02
PROGRAM  DISPERSION EQUATION                =     3.0
PROGRAM  OCEAN EXCHANGE RATIO               =     1.0
PROGRAM  TIDE HEIGHT                        =   0.0426
PROGRAM  TIDAL PERIOD                       =     26.0
PROGRAM  PERIOD OF TIDAL RISE               =     12.0
PROGRAM  K2 MAXIMUM                         =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD       =     2.
PROGRAM  SETTLING RATE UNITS                =     2.
!24 hour wind speed for Houma Weather Station on 6/30/2004
PROGRAM  WIND VELOCITY                      =     0.68
PROGRAM  KL MINIMUM                         =     0.70
ENDATA03
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
```

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!          R#  ID   SITE NAME                            RKM        RKM    LENGTH
REACH ID   1   BC CUTOFF: THIBODAUX TO DUGAS DITCH    33.20      31.24    0.0400
REACH ID   2   BC CUTOFF: DUGAS DITCH TO ARPENT C     31.24      28.66    0.0600
REACH ID   3   BC CUTOFF: ARPENT TO THOROUGHBRED      28.66      27.62    0.0800
REACH ID   4   BC CUTOFF:THOROUGHBRED TO RKM 24.66    27.62      24.66    0.0800
REACH ID   5   BC CUTOFF: RKM 24.66 TO ST CHAS        24.66      21.78    0.0800
REACH ID   6   BC CUTOFF: ST CHAS TO RKM 19.28        21.78      19.28    0.1000
REACH ID   7   BC CUTOFF: RKm 19.28 TO RKM 16.28      19.28      16.80    0.0800
REACH ID   8   BC CUTOFF: RKM 16.28 TO BAYOU FOLSE    16.80      14.30    0.1000
REACH ID   9   BF FOLSE: THERIOT CANAL TO RKM 12.3    14.30      12.30    0.1000
REACH ID  10   BF FOLSE: RKM 12.30 TO RKM 10.20       12.30      10.20    0.1000
REACH ID  11   BF FOLSE: RKM 10.20 TO RKM 7.40        10.20       7.40    0.2000
REACH ID  12   BF FOLSE: RKM 7.40 TO RACELAND C.       7.40       4.70    0.1500
REACH ID  13   BF FOLSE: RACELAND C. TO RKM 2.32       4.70       2.32    0.1190
REACH ID  14   BF FOLSE: RKM 2.32 TO COMPANY CANAL     2.32       0.00    0.1160
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
!LAQUAL reaches are all less than 3 kilometers long to allow flexibility in varying stream geometry.
!Dugas Ditch, Arpent Canal, and Thoroughbred Ditch are modeled with estimated geometry.
!The rating curves, W=aQ**b+c and D=dQ**e+f are developed from measured cross sections.
!Bayou Cutoff BCUT-01
HYDR-1      1   0.806  1.00    9.52  0.143  1.00    0.50          0.050
!Bayou Cutoff BCUT-02
HYDR-1      2   0.942  1.00   14.26  0.070  1.00    0.96          0.050
!Bayou Cutoff BCUT-03
HYDR-1      3   0.400  1.00   20.31  0.050  1.00    1.18          0.050
!Bayou Cutoff BCUT-03
HYDR-1      4   0.400  1.00   20.31  0.050  1.00    1.18          0.050
!Bayou Cutoff BCUT-04
HYDR-1      5   0.762  1.00   24.38  0.039  1.00    1.28          0.050
!Bayou Cutoff BCUT-06
HYDR-1      6   0.029  1.00   24.55  0.028  1.00    1.41          0.050
!Bayou Cutoff BCUT-06
HYDR-1      7   0.029  1.00   24.55  0.028  1.00    1.41          0.050
```

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!Bayou Cutoff BCUT-06
HYDR-1      8   0.029  1.00   24.55  0.028  1.00    1.41          0.050
!Bayou Folse  BF-03
HYDR-1      9   0.067  1.00   26.14  0.025  1.00    1.52          0.050
!Bayou Folse  BF-03
HYDR-1     10   0.067  1.00   26.14  0.025  1.00    1.52          0.050
!Bayou Folse  BF-02
HYDR-1     11   0.333  1.00   40.80  0.021  1.00    1.57          0.050
!Bayou Folse  BF-02
HYDR-1     12   0.333  1.00   40.80  0.021  1.00    1.57          0.050
!Bayou Folse  BF-01
HYDR-1     13   0.0    0.0    37.80  0.0    0.00    1.06          0.050
!Bayou Folse  BF-01
HYDR-1     14   0.0    0.0    37.80  0.0    0.00    1.06          0.050
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
! Tidal fraction was obtained from Dynhyd Hydrologic Calibration.
! The equation for tidal fraction for mainstem was determined to be:
! [(0.00015758)*(RKM**2)] - [(0.01573894)*(RKM)] + [1.0]
! Middle of Reach 1 is RKM 32.2
HYDR-2      1  0.657  36.000   0.833    0.0       1.0
! Middle of Reach 3 is RKM 30.0
HYDR-2      2  0.670  36.000   0.833    0.0       1.0
! Middle of Reach 5 is RKM 28.1
HYDR-2      3  0.682  36.000   0.833    0.0       1.0
! Middle of Reach 7 is RKM 26.1
HYDR-2      4  0.697  36.000   0.833    0.0       1.0
! Middle of Reach 8 is RKM 23.2
HYDR-2      5  0.720  36.000   0.833    0.0       1.0
! Middle of Reach 9 is RKM 20.5
HYDR-2      6  0.744  36.000   0.833    0.0       1.0
! Middle of Reach 10 is RKM 18.0
HYDR-2      7  0.768  36.000   0.833    0.0       1.0
! Middle of Reach 11 is RKM 15.4
HYDR-2      8  0.795  36.000   0.833    0.0       1.0
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! Middle of Reach 12 is RKM 13.3
HYDR-2      9  0.819  36.000   0.833    0.0       1.0
! Middle of Reach 13 is RKM 11.2
HYDR-2     10  0.843  36.000   0.833    0.0       1.0
! Middle of Reach 14 is RKM 8.8
HYDR-2     11  0.874  36.000   0.833    0.0       1.0
! Middle of Reach is 15 RKM 6.1
HYDR-2     12  0.910  36.000   0.833    0.0       1.0
! Middle of Reach is 16 RKM 3.5
HYDR-2     13  0.947  36.000   0.833    0.0       1.0
! Middle of Reach 17 is RKM 1.2
HYDR-2     14  0.981  36.000   0.833    0.0       1.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO                            CHL A
!CHL A is achieved through calibration.  There are only two sample points on the mainstem.
!The two sample points for CHL A are BCUT-03 and BFOL-03.
!All salinity values are from insitu.
!BCUT-01 Average Cont Mont for Temp and DO
INITIAL     1      26.9    0.22   3.90                            2.0
!BCUT-02 Insitu for Temp and DO
INITIAL     2      26.4    0.09   1.37                            2.0
!BCUT-03 Average Cont Mont for Temp and DO
INITIAL     3      26.0    0.07   2.40                            2.0
!BCUT-03 Average Cont Mont for Temp and DO
!BCUT-03 for CHL A
INITIAL     4      26.0    0.07   2.40                            3.2
!BCUT-04 Insitu for Temp and DO
INITIAL     5      25.9    0.12   0.92                            3.5
!BCUT-04 Insitu for Temp and DO
INITIAL     6      25.9    0.12   0.92                            4.0
!BCUT-04 Insitu for Temp and DO
INITIAL     7      25.9    0.12   0.92                            5.0
!BFOL-03 Cont Mont for Temp and DO
INITIAL     8      26.3    0.09   0.83                           12.0
!BFOL-03 Cont Mont for Temp and DO
!BFOL-03 for CHL A
```

```
INITIAL     9      26.3    0.09   0.83                            19.2
!BFOL-03 Cont Mont for Temp and DO
INITIAL    10      26.3    0.09   0.83                            19.5
!BFOL-02 Cont Mont for Temp and DO
INITIAL    11      26.6    0.09   1.44                            19.5
!BFOL-02 Cont Mont for Temp and DO
INITIAL    12      26.6    0.09   1.44                            20.0
!BFOL-01 Cont Mont for Temp and DO
INITIAL    13      27.9    0.10   0.88                            21.0
!BFOL-01 Cont Mont for Temp and DO
INITIAL    14      27.9    0.10   0.88                            21.0
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----*********----- ******-------*******-------*******-------*******-------***
!Texas equation was determined to be most suitable for this model.
!Settling rates were determined by calibration.
!Decay rate is the average decay rates of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02,
!BFOL-03, CC-01, CC-02, AND AC-01.
!               REA                          BOD 1  BOD 1 BOD1SET       BOD 2    BOD 2 BOD2SET
!          R#   EQ                       SOD  DECAY  SETT   TO SOD       DECAY    SETT   TO SOD
COEF-1      1   11.0                     2.00  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      2   11.0                     2.00  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      3   11.0                     1.00  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      4   11.0                     2.50  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      5   11.0                     4.00  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      6   11.0                     5.90  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      7   11.0                     5.90  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      8   11.0                     5.90  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      9   11.0                     5.90  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     10   11.0                     5.50  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     11   11.0                     2.00  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     12   11.0                     2.00  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     13   11.0                     5.90  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     14   11.0                     5.90  0.118   0.20    1.0         0.031   0.20    1.0
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
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!          ***  -------*******-------*******-------*******-------
!               NBOD     NBOD
!           R#  DECAY    SETT
!Settling rates were determined by calibration.
!Decay rate is the average decay rates of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02,
!BFOL-03, CC-01, CC-02, AND AC-01.
COEF-2      1    0.100   0.30
COEF-2      2    0.100   0.30
COEF-2      3    0.100   0.30
COEF-2      4    0.100   0.30
COEF-2      5    0.100   0.30
COEF-2      6    0.100   0.30
COEF-2      7    0.100   0.30
COEF-2      8    0.100   0.30
COEF-2      9    0.100   0.30
COEF-2     10    0.100   0.30
COEF-2     11    0.100   0.30
COEF-2     12    0.100   0.30
COEF-2     13    0.100   0.30
COEF-2     14    0.100   0.30
ENDATA13
ENDATA14
ENDATA15
ENDATA16
ENDATA17
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!          ***  ---------*********---------*********---------*********
!           R#     BOD 1    NBOD                                BOD 2
NONPOINT    1       60.0      0.0                                 50.0
NONPOINT    2       50.0      0.0                                 20.0
NONPOINT    3       75.0     80.0                                 40.0
NONPOINT    4      100.0     25.0                                120.0
NONPOINT    5      200.0      5.0                                150.0
NONPOINT    6      120.0     30.0                                 10.0
NONPOINT    7      150.0     30.0                                 35.0
NONPOINT    8       90.0     70.0                                 30.0
NONPOINT    9      280.0     85.0                                 25.0
```

```
NONPOINT   10      300.0     75.0                                210.0
NONPOINT   11      600.0    195.0                                300.0
NONPOINT   12      500.0    195.0                                200.0
NONPOINT   13      210.0     30.0                                 70.0
NONPOINT   14      210.0     30.0                                 65.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   COND    CHLORIDES
!Bayou Cutoff headwater flow will be simulated as the DYNHYD average flow for the
!24 hours prior to the sample time at BCUT-01.
!BCUT-01 Cont Mont for Temp, Insitu for Salinity, Lab for Chlorides
HDWTR-1     1  BAYOU CUTOFF             1.030000  26.900    0.22   200.0     8.0
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD                       BOD 2
!BCUT-01 Average Cont Mont for DO.  Lab for BOD1, BOD2, and NBOD.
HDWTR-2     1       3.90     5.92     2.43                        4.23
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#             CHL A
HDWTR-3     1                 0.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------********---------********---------********
!          E#     NAME               FLOW      TEMP   SALINITY   COND  CHLORIDES
!Lafourche SD#1 has a design flow of 180,000 gpd = 0.007886 cms
WSTLD-1    30  LAFOURCHE SD#1      0.007886  27.0
!Dugas Ditch
```

```
!Lafourche WD#1 has a design flow of 108,000 gpd = 0.004732 cms
!Lafourche SD#14 has a design flow of  27,200 gpd = 0.001192 cms
!Community Sewage Service has a design flow of 20,800 gpd = 0.000911 cms
WSTLD-1    50  DUGAS DITCH         0.0068    30.0
!Grand Marnier has a design flow of 84,400 gpd = 0.003698 cms
WSTLD-1    63  GRAND MARNIER       0.003698  26.0
!Harlan's MHP is located on AC has a design flow of 10,000 gpd = 0.000438 cms
!AC-01 Insitu for Temperature
WSTLD-1    93  ARPENT CANAL        0.000438  26.0
!Thoroughbred Park Sub has a design flow of 50,400 gpd = 0.002208 cms
WSTLD-1   109  THOROUGHBRED        0.002208  26.0
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD                            BOD 2
!Permit Limits
WSTLD-2    30        2.0   23.0          43.0                                0.0
!Permit Limits
WSTLD-2    50        2.0   69.0          64.5                                0.0
!Permit Limits
WSTLD-2    63        2.0   23.0          43.0                                0.0
!Survey measurement for AC because it if between discharger and Bayou Folse
WSTLD-2    93        2.0    6.6           3.3                                1.9
!Permit Limits
WSTLD-2   109        2.0   23.0          43.0                                0.0
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------********---------********
!          E#            CHL A
WSTLD-3    30
WSTLD-3    50
WSTLD-3    63
WSTLD-3    93
WSTLD-3   109
ENDATA26
!BFOL-01 Average Cont Mont
```

```
LOWER BC TEMPERATURE                          =  27.90
!BFOL-01 Insitu
LOWER BC SALINITY                             =   0.10
!BFOL-01 Insitu
LOWER BC CONSERVATIVE MATERIAL I              = 218.00
!BFOL-01 Lab Data
LOWER BC CONSERVATIVE MATERIAL II             =  16.90
!BFOL-01 Average Cont Mont
LOWER BC DISSOLVED OXYGEN                     =   0.88
!BFOL-01 Lab Data
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND       =   7.54
!BFOL-01 Lab Data
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND       =   3.96
!BFOL-01 Lab Data
LOWER BC NBOD                                 =   1.76
!Calibration
LOWER BC CHLOROPHYLL A                        =  21.00
ENDATA27
ENDATA28
SENSITIV LBC NBOD   30    -30
ENDATA29
NUMBER OF PLOTS = 2
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
NUMBER OF REACHES IN PLOT 2 =  4
PLOT RCH  1  2  3  4
ENDATA30
OVERLAY 1 OPDATA_1.TXT                       BAYOU CUTOFF AND BAYOU FOLSE
OVERLAY 2 OPDATA_1.TXT                       BAYOU CUTOFF AND BAYOU FOLSE
ENDATA31
```

BAYOU FOLSE/BAYOU CUTOFF 120302 CALIBRATION OVERLAY DATA SET

```
STA    BC01 (BCUT01)       33.22
34                   10.4                 WIDTH
33                   0.65                 DEPTH
1          25.5      26.9      30.9       TEMPERATURE
5          2.68      3.90      5.22       DISSOLVED OXYGEN
6                    5.92                 CBOD1
16                   4.23                 CBOD2
```

```
18                  2.43                NBOD
STA    BC02 (BCUT02)       30.68
34                  15.2                WIDTH
33                  1.03                DEPTH
4                   7.8                 CHLORIDES
6                   6.60                CBOD1
16                  4.46                CBOD2
18                  2.75                NBOD
STA    BC03 (BCUT03)       27.39
34                  20.7                WIDTH
33                  1.23                DEPTH
1          25.5     26.0      26.9      TEMPERATURE
3          131      151       185       CONDUCTIVITY
4                   6.8                 CHLORIDES
5          1.78     2.40      3.43      DISSOLVED OXYGEN
6                   6.36                CBOD1
13                  3.20                CHLOROPHYLL A
16                  4.31                CBOD2
18                  2.96                NBOD
STA    BC04 (BCUT04)       22.66
34                  25.3                WIDTH
33                  1.32                DEPTH
1                   25.9                TEMPERATURE
4                   10.3                CHLORIDES
6                   5.80                CBOD1
16                  4.85                CBOD2
18                  1.87                NBOD
STA    BC05 (BCUT05)       18.68
32                  1.46                DISPERSION
STA    BC06 (BCUT06)       15.68
34                 24.7                 WIDTH
33                 1.44                 DEPTH
STA    BF03 (BFOL03)       13.69
34                  26.2                WIDTH
33                  1.55                DEPTH
1          25.9     26.3      27.3      TEMPERATURE
3          189      197       211       CONDUCTIVITY
4                   8.8                 CHLORIDES
5          0.48     0.83      1.27      DISSOLVED OXYGEN
6                   5.34                CBOD1
```

```
13                  19.20                   CHLOROPHYLL A
16                   2.84                   CBOD2
18                   1.74                   NBOD
STA    BF02 (BFOL02)        6.45
34                   41.1                   WIDTH
33                   1.59                   DEPTH
1          26.2      26.6      27.3         TEMPERATURE
3          161       177       200          CONDUCTIVITY
4                    8.7                    CHLORIDES
5          0.92      1.44      2.46         DISSOLVED OXYGEN
6                    8.39                   CBOD1
16                   4.87                   CBOD2
18                   2.53                   NBOD
STA    BF01 (BFOL01)        0.62
34                   37.8                   WIDTH
33                   1.06                   DEPTH
1          27.0      27.9      29.1         TEMPERATURE
3          217       228       238          CONDUCTIVITY
4                    16.9                   CHLORIDES
5          0.07      0.88      2.17         DISSOLVED OXYGEN
6                    7.54                   CBOD1
16                   3.96                   CBOD2
18                   1.76                   NBOD
STA      LB                 0.01
1                    27.9                   TEMPERATURE
3                    228.                   CONDUCTIVITY
4                    16.9                   CHLORIDES
5                    0.88                   DISSOLVED OXYGEN
6                    7.54                   CBOD1
16                   3.96                   CBOD2
MRK 0.000001   REACH 14
MRK 2.32       REACH 13
MRK 4.70       REACH 12
MRK 7.40       REACH 11
MRK 10.20      REACH 10
MRK 12.30      REACH 9
MRK 14.30      REACH 8
MRK 16.28      REACH 7
MRK 19.28      REACH 6
MRK 21.78      REACH 5
```

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MRK 24.66       REACH 4
MRK 27.62       REACH 3
MRK 28.66       REACH 2
MRK 31.24       REACH 1
END
```

BAYOU FOLSE/BAYOU CUTOFF 120302 CALIBRATION OUTPUT DATA SET

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LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is O:\Personal_Folders\Karen\Bayou Folse via Karen\Input Files\Folsecal.txt
Output produced at 15:11 on 01/31/2008

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

CARD TYPE       CONTROL TITLES

TITLE01         WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
TITLE02         WATER QUALITY CALIBRATION RUN
CNTROL12  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CONDUCTIVITY               IN uS/cm
MODOPT04  YES   CONSERVATIVE MATERIAL II = CHLORIDES                  IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07  YES   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT09   NO   PHOSPHORUS
MODOPT10   NO   CHLOROPHYLL A
MODOPT11   NO   MACROPHYTES
MODOPT12   NO   COLIFORM
MODOPT13   NO   NONCONSERVATIVE MATERIAL
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         DISPERSION EQUATION               =         3.00000 (values entered as a function of D,Q,Vmean)
PROGRAM         OCEAN EXCHANGE RATIO              =         1.00000
PROGRAM         TIDE HEIGHT                       =         0.04260 meters
PROGRAM         TIDAL PERIOD                      =        26.00000 hours
PROGRAM         PERIOD OF TIDAL RISE              =        12.00000 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)
PROGRAM         WIND VELOCITY                     =         0.68000 meters/sec
```

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PROGRAM         KL MINIMUM                          =         0.70000 meters/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   BC  CUTOFF: THIBODAUX TO DUGAS DITCH     33.20  TO   31.24   0.0400     1.96      49        1     49
REACH ID      2   BC  CUTOFF: DUGAS DITCH TO ARPENT C      31.24  TO   28.66   0.0600     2.58      43       50     92
REACH ID      3   BC  CUTOFF: ARPENT TO THOROUGHBRED       28.66  TO   27.62   0.0800     1.04      13       93    105
REACH ID      4   BC  CUTOFF:THOROUGHBRED TO RKM 24.66     27.62  TO   24.66   0.0800     2.96      37      106    142
REACH ID      5   BC  CUTOFF: RKM 24.66 TO ST CHAS         24.66  TO   21.78   0.0800     2.88      36      143    178
REACH ID      6   BC  CUTOFF: ST CHAS TO RKM 19.28         21.78  TO   19.28   0.1000     2.50      25      179    203
REACH ID      7   BC  CUTOFF: RKm 19.28 TO RKM 16.28       19.28  TO   16.80   0.0800     2.48      31      204    234
REACH ID      8   BC  CUTOFF: RKM 16.28 TO BAYOU FOLSE     16.80  TO   14.30   0.1000     2.50      25      235    259
REACH ID      9   BF  FOLSE: THERIOT CANAL TO RKM 12.3     14.30  TO   12.30   0.1000     2.00      20      260    279
REACH ID     10   BF  FOLSE: RKM 12.30 TO RKM 10.20        12.30  TO   10.20   0.1000     2.10      21      280    300
REACH ID     11   BF  FOLSE: RKM 10.20 TO RKM 7.40         10.20  TO    7.40   0.2000     2.80      14      301    314
REACH ID     12   BF  FOLSE: RKM 7.40 TO RACELAND C.        7.40  TO    4.70   0.1500     2.70      18      315    332
REACH ID     13   BF  FOLSE: RACELAND C. TO RKM 2.32        4.70  TO    2.32   0.1190     2.38      20      333    352
REACH ID     14   BF  FOLSE: RKM 2.32 TO COMPANY CANAL      2.32  TO    0.00   0.1160     2.32      20      353    372
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"

 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  1
HYDR-1        1   BC       0.806       1.000       9.520       0.143       1.000       0.500     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  2
HYDR-1        2   BC       0.942       1.000      14.260       0.070       1.000       0.960     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  3
```

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HYDR-1        3   BC       0.400       1.000      20.310       0.050       1.000       1.180     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  4
HYDR-1        4   BC       0.400       1.000      20.310       0.050       1.000       1.180     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  5
HYDR-1        5   BC       0.762       1.000      24.380       0.039       1.000       1.280     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  6
HYDR-1        6   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  7
HYDR-1        7   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  8
HYDR-1        8   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  9
HYDR-1        9   BF       0.067       1.000      26.140       0.025       1.000       1.520     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 10
HYDR-1       10   BF       0.067       1.000      26.140       0.025       1.000       1.520     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 11
HYDR-1       11   BF       0.333       1.000      40.800       0.021       1.000       1.570     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 12
HYDR-1       12   BF       0.333       1.000      40.800       0.021       1.000       1.570     0.00000   0.050
HYDR-1       13   BF       0.000       0.000      37.800       0.000       0.000       1.060     0.00000   0.050
HYDR-1       14   BF       0.000       0.000      37.800       0.000       0.000       1.060     0.00000   0.050
ENDATA09

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

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                         RANGE        "A"            "B"            "C"            "D"

HYDR          1   BC      0.66       36.000         0.833          0.000          1.000
HYDR          2   BC      0.67       36.000         0.833          0.000          1.000
HYDR          3   BC      0.68       36.000         0.833          0.000          1.000
HYDR          4   BC      0.70       36.000         0.833          0.000          1.000
HYDR          5   BC      0.72       36.000         0.833          0.000          1.000
HYDR          6   BC      0.74       36.000         0.833          0.000          1.000
HYDR          7   BC      0.77       36.000         0.833          0.000          1.000
HYDR          8   BC      0.80       36.000         0.833          0.000          1.000
HYDR          9   BF      0.82       36.000         0.833          0.000          1.000
HYDR         10   BF      0.84       36.000         0.833          0.000          1.000
HYDR         11   BF      0.87       36.000         0.833          0.000          1.000
HYDR         12   BF      0.91       36.000         0.833          0.000          1.000
HYDR         13   BF      0.95       36.000         0.833          0.000          1.000
HYDR         14   BF      0.98       36.000         0.833          0.000          1.000
ENDATA10

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

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

INITIAL          1   BC       26.90      0.22      3.90      0.00      0.00      0.00      2.00      0.00
INITIAL          2   BC       26.40      0.09      1.37      0.00      0.00      0.00      2.00      0.00
INITIAL          3   BC       26.00      0.07      2.40      0.00      0.00      0.00      2.00      0.00
INITIAL          4   BC       26.00      0.07      2.40      0.00      0.00      0.00      3.20      0.00
INITIAL          5   BC       25.90      0.12      0.92      0.00      0.00      0.00      3.50      0.00
INITIAL          6   BC       25.90      0.12      0.92      0.00      0.00      0.00      4.00      0.00
INITIAL          7   BC       25.90      0.12      0.92      0.00      0.00      0.00      5.00      0.00
INITIAL          8   BC       26.30      0.09      0.83      0.00      0.00      0.00     12.00      0.00
INITIAL          9   BF       26.30      0.09      0.83      0.00      0.00      0.00     19.20      0.00
INITIAL         10   BF       26.30      0.09      0.83      0.00      0.00      0.00     19.50      0.00
```

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INITIAL          11   BF       26.60      0.09      1.44      0.00      0.00      0.00     19.50      0.00
INITIAL          12   BF       26.60      0.09      1.44      0.00      0.00      0.00     20.00      0.00
INITIAL          13   BF       27.90      0.10      0.88      0.00      0.00      0.00     21.00      0.00
INITIAL          14   BF       27.90      0.10      0.88      0.00      0.00      0.00     21.00      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   BC  11 TEXAS            0.000     0.000     0.000     2.000     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     2   BC  11 TEXAS            0.000     0.000     0.000     2.000     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     3   BC  11 TEXAS            0.000     0.000     0.000     1.000     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     4   BC  11 TEXAS            0.000     0.000     0.000     2.500     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     5   BC  11 TEXAS            0.000     0.000     0.000     4.000     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     6   BC  11 TEXAS            0.000     0.000     0.000     5.900     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     7   BC  11 TEXAS            0.000     0.000     0.000     5.900     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     8   BC  11 TEXAS            0.000     0.000     0.000     5.900     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     9   BF  11 TEXAS            0.000     0.000     0.000     5.900     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    10   BF  11 TEXAS            0.000     0.000     0.000     5.500     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    11   BF  11 TEXAS            0.000     0.000     0.000     2.000     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    12   BF  11 TEXAS            0.000     0.000     0.000     2.000     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    13   BF  11 TEXAS            0.000     0.000     0.000     5.900     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    14   BF  11 TEXAS            0.000     0.000     0.000     5.900     0.118     0.200     1.000     0.000     0.031     0.200     1.000     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   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           2   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           3   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           4   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           5   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           6   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           7   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           8   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           9   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          10   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          11   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          12   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          13   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          14   BF       0.100     0.300     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

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

ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

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   BC       60.00      0.00      0.00      0.00      0.00     50.00
NONPOINT           2   BC       50.00      0.00      0.00      0.00      0.00     20.00
NONPOINT           3   BC       75.00     80.00      0.00      0.00      0.00     40.00
NONPOINT           4   BC      100.00     25.00      0.00      0.00      0.00    120.00
NONPOINT           5   BC      200.00      5.00      0.00      0.00      0.00    150.00
NONPOINT           6   BC      120.00     30.00      0.00      0.00      0.00     10.00
NONPOINT           7   BC      150.00     30.00      0.00      0.00      0.00     35.00
NONPOINT           8   BC       90.00     70.00      0.00      0.00      0.00     30.00
NONPOINT           9   BF      280.00     85.00      0.00      0.00      0.00     25.00
NONPOINT          10   BF      300.00     75.00      0.00      0.00      0.00    210.00
NONPOINT          11   BF      600.00    195.00      0.00      0.00      0.00    300.00
NONPOINT          12   BF      500.00    195.00      0.00      0.00      0.00    200.00
NONPOINT          13   BF      210.00     30.00      0.00      0.00      0.00     70.00
NONPOINT          14   BF      210.00     30.00      0.00      0.00      0.00     65.00
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     uS/cm      MG/L

HDWTR-1           1     BAYOU CUTOFF            0   1.03000   36.370   26.90     0.22   200.000     8.000   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 CUTOFF              3.90      5.92      2.43      0.00      0.00      4.23
ENDATA21
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$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

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

HDWTR-3           1     BAYOU CUTOFF                0.00      0.00      0.00      0.00
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

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     uS/cm      MG/L

WSTLD-1       30      32.04  LAFOURCHE SD#1         0.00789    0.27846    0.180   27.00     0.00     0.000     0.000
WSTLD-1       50      31.24  DUGAS DITCH            0.00680    0.24011    0.155   30.00     0.00     0.000     0.000
WSTLD-1       63      30.46  GRAND MARNIER          0.00370    0.13058    0.084   26.00     0.00     0.000     0.000
WSTLD-1       93      28.66  ARPENT CANAL           0.00044    0.01547    0.010   26.00     0.00     0.000     0.000
WSTLD-1      109      27.38  THOROUGHBRED           0.00221    0.07797    0.050   26.00     0.00     0.000     0.000
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          30     LAFOURCHE SD#1              2.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          50     DUGAS DITCH                 2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2          63     GRAND MARNIER               2.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          93     ARPENT CANAL                2.00      6.60      0.00      3.30      0.00      0.00      0.00      1.90
WSTLD-2         109     THOROUGHBRED                2.00     23.00      0.00     43.00      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

WSTLD-3          30     LAFOURCHE SD#1              0.00      0.00      0.00      0.00
WSTLD-3          50     DUGAS DITCH                 0.00      0.00      0.00      0.00
WSTLD-3          63     GRAND MARNIER               0.00      0.00      0.00      0.00
WSTLD-3          93     ARPENT CANAL                0.00      0.00      0.00      0.00
WSTLD-3         109     THOROUGHBRED                0.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     27.900     deg C
LOWER BC     SALINITY                          =      0.100     ppt
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LOWER BC     CONSERVATIVE MATERIAL I            =    218.000     uS/cm
LOWER BC     CONSERVATIVE MATERIAL II           =     16.900     MG/L
LOWER BC     DISSOLVED OXYGEN                   =      0.880     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND     =      7.540     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND     =      3.960     mg/L
LOWER BC     NBOD                               =      1.760     mg/L
LOWER BC     CHLOROPHYLL A                      =     21.000     µg/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

ENDATA29

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


NUMBER OF PLOTS =  2
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
NUMBER OF REACHES IN PLOT 2 =   4
PLOT RCH  1  2  3  4
ENDATA30

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


OVERLAY 1 OPDATA_1.TXT                     BAYOU CUTOFF AND BAYOU FOLSE
OVERLAY 2 OPDATA_1.TXT                     BAYOU CUTOFF AND BAYOU FOLSE
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  22 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
     .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12


FINAL REPORT    BAYOU CUTOFF                                    WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO.  1    CUTOFF: THIBODAUX TO DUGAS DITCH                WATER QUALITY CALIBRATION RUN


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

 ELEM  TYPE        FLOW     TEMP     SALN     CM-I    CM-II     DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A     COLI     NCM
 NO.                       deg C      ppt    uS/cm     MG/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL
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1	HDWTR	1.03000	26.90	0.22	200.00	8.00	3.90	5.92	4.23	5.92	4.23	2.43	0.00	0.00	0.00	2.00	0.00	0.00
30	WSTLD	0.00789	27.00	0.00	0.00	0.00	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 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
1	33.20	33.16	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	11.59	0.000	3.852	0.154
2	33.16	33.12	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	23.17	0.000	3.852	0.154
3	33.12	33.08	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	34.76	0.000	3.852	0.154
4	33.08	33.04	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	46.35	0.000	3.852	0.154
5	33.04	33.00	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	57.94	0.000	3.852	0.154
6	33.00	32.96	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	69.52	0.000	3.852	0.154
7	32.96	32.92	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	81.11	0.000	3.852	0.154
8	32.92	32.88	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	92.70	0.000	3.852	0.154
9	32.88	32.84	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	104.29	0.000	3.852	0.154
10	32.84	32.80	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	115.87	0.000	3.852	0.154
11	32.80	32.76	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	127.46	0.000	3.852	0.154
12	32.76	32.72	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	139.05	0.000	3.852	0.154
13	32.72	32.68	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	150.64	0.000	3.852	0.154
14	32.68	32.64	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	162.22	0.001	3.852	0.154
15	32.64	32.60	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	173.81	0.001	3.852	0.154
16	32.60	32.56	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	185.40	0.001	3.852	0.154
17	32.56	32.52	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	196.98	0.001	3.852	0.154
18	32.52	32.48	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	208.57	0.001	3.852	0.154
19	32.48	32.44	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	220.16	0.001	3.852	0.154
20	32.44	32.40	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	231.75	0.001	3.852	0.154
21	32.40	32.36	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	243.33	0.001	3.852	0.154
22	32.36	32.32	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	254.92	0.001	3.852	0.154
23	32.32	32.28	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	266.51	0.001	3.852	0.154
24	32.28	32.24	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	278.10	0.001	3.852	0.154
25	32.24	32.20	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	289.68	0.001	3.852	0.154
26	32.20	32.16	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	301.27	0.001	3.852	0.154
27	32.16	32.12	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	312.86	0.001	3.852	0.154
28	32.12	32.08	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	324.44	0.001	3.852	0.154
29	32.08	32.04	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	336.03	0.001	3.852	0.154
30	32.04	32.00	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	347.63	0.001	3.878	0.155
31	32.00	31.96	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	359.22	0.001	3.878	0.155
32	31.96	31.92	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	370.82	0.001	3.878	0.155
33	31.92	31.88	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	382.41	0.001	3.878	0.155
34	31.88	31.84	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	394.00	0.001	3.878	0.155
35	31.84	31.80	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	405.60	0.001	3.878	0.155
36	31.80	31.76	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	417.19	0.001	3.878	0.155
37	31.76	31.72	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	428.79	0.001	3.878	0.155
38	31.72	31.68	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	440.38	0.001	3.878	0.155
39	31.68	31.64	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	451.98	0.001	3.878	0.155
40	31.64	31.60	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	463.57	0.001	3.878	0.155
41	31.60	31.56	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	475.17	0.002	3.878	0.155
42	31.56	31.52	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	486.76	0.002	3.878	0.155
43	31.52	31.48	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	498.35	0.002	3.878	0.155
44	31.48	31.44	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	509.95	0.002	3.878	0.155
45	31.44	31.40	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	521.54	0.002	3.878	0.155
46	31.40	31.36	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	533.14	0.002	3.878	0.155
47	31.36	31.32	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	544.73	0.002	3.878	0.155
48	31.32	31.28	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	556.33	0.002	3.878	0.155

49	31.28	31.24	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	567.92	0.002	3.878	0.155								
TOT						0.15			13143.79	20291.44													
AVG					0.1541		0.65	10.35			6.71												
CUM						0.15																	

********** 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	33.160	7.97	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.09	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
2	33.120	7.98	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.08	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
3	33.080	7.98	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.08	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
4	33.040	7.98	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.08	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
5	33.000	7.98	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.08	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
6	32.960	7.98	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.08	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
7	32.920	7.98	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.07	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
8	32.880	7.99	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.07	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
9	32.840	7.99	1.93	0.16	0.24	0.00	0.04	0.24	0.00	3.07	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
10	32.800	7.99	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.07	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
11	32.760	7.99	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.07	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
12	32.720	7.99	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.06	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
13	32.680	7.99	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.06	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
14	32.640	7.99	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.06	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
15	32.600	8.00	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.06	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
16	32.560	8.00	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.06	4.64	4.64	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
17	32.520	8.00	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.05	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
18	32.480	8.00	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.05	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
19	32.440	8.00	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.05	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
20	32.400	8.00	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.05	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
21	32.360	8.01	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.05	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
22	32.320	8.01	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.05	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
23	32.280	8.01	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.04	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
24	32.240	8.01	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.04	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
25	32.200	8.01	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.04	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
26	32.160	8.01	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.04	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
27	32.120	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.04	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
28	32.080	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.03	4.64	4.64	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
29	32.040	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.03	4.64	4.64	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
30	32.000	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.03	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
31	31.960	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.03	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
32	31.920	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.03	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
33	31.880	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.02	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
34	31.840	8.03	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.02	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
35	31.800	8.03	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.02	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
36	31.760	8.03	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.02	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
37	31.720	8.03	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.02	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
38	31.680	8.03	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.01	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
39	31.640	8.03	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.01	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
40	31.600	8.04	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.01	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
41	31.560	8.04	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.01	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
42	31.520	8.04	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.01	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
43	31.480	8.04	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.00	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
44	31.440	8.04	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.00	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
45	31.400	8.04	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.00	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00

46	31.360	8.05	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.00	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
47	31.320	8.05	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.00	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
48	31.280	8.05	1.92	0.16	0.23	0.00	0.04	0.23	0.00	2.99	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
49	31.240	8.05	1.92	0.16	0.23	0.00	0.04	0.23	0.00	2.99	4.66	4.66	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.70	0.12	0.20	0.00	0.03	0.20	0.00	2.00			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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	33.160	26.89	0.22	200.00	8.00	3.90	5.93	4.24	5.93	4.24	2.42	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
2	33.120	26.88	0.21	200.00	8.00	3.90	5.94	4.25	5.94	4.25	2.42	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
3	33.080	26.87	0.21	200.00	8.00	3.89	5.94	4.26	5.94	4.26	2.42	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
4	33.040	26.86	0.21	200.00	8.00	3.89	5.95	4.27	5.95	4.27	2.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
5	33.000	26.85	0.21	200.00	8.00	3.89	5.96	4.27	5.96	4.27	2.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
6	32.960	26.84	0.20	200.00	8.00	3.89	5.96	4.28	5.96	4.28	2.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
7	32.920	26.83	0.20	200.00	8.00	3.89	5.97	4.29	5.97	4.29	2.40	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
8	32.880	26.82	0.20	200.00	8.00	3.88	5.98	4.30	5.98	4.30	2.40	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
9	32.840	26.81	0.20	200.00	8.00	3.88	5.98	4.31	5.98	4.31	2.40	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
10	32.800	26.80	0.19	200.00	8.00	3.88	5.99	4.31	5.99	4.31	2.39	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
11	32.760	26.79	0.19	200.00	8.00	3.88	6.00	4.32	6.00	4.32	2.39	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
12	32.720	26.78	0.19	200.00	8.00	3.88	6.00	4.33	6.00	4.33	2.39	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
13	32.680	26.77	0.19	200.00	8.00	3.88	6.01	4.34	6.01	4.34	2.38	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
14	32.640	26.76	0.18	200.00	8.00	3.88	6.02	4.35	6.02	4.35	2.38	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
15	32.600	26.75	0.18	200.00	8.00	3.87	6.02	4.35	6.02	4.35	2.37	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
16	32.560	26.74	0.18	200.00	8.00	3.87	6.03	4.36	6.03	4.36	2.37	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
17	32.520	26.73	0.17	200.00	8.00	3.87	6.04	4.37	6.04	4.37	2.37	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
18	32.480	26.72	0.17	200.00	8.00	3.87	6.04	4.38	6.04	4.38	2.36	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
19	32.440	26.71	0.17	200.00	8.00	3.87	6.05	4.38	6.05	4.38	2.36	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
20	32.400	26.70	0.17	200.00	8.00	3.87	6.06	4.39	6.06	4.39	2.36	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
21	32.360	26.69	0.16	200.00	8.00	3.86	6.06	4.40	6.06	4.40	2.35	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
22	32.320	26.68	0.16	200.00	8.00	3.86	6.07	4.41	6.07	4.41	2.35	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
23	32.280	26.67	0.16	200.00	8.00	3.86	6.08	4.42	6.08	4.42	2.35	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
24	32.240	26.66	0.16	200.00	8.00	3.86	6.08	4.42	6.08	4.42	2.34	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
25	32.200	26.64	0.15	199.99	8.00	3.86	6.09	4.43	6.09	4.43	2.34	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
26	32.160	26.63	0.15	199.97	8.00	3.86	6.10	4.44	6.10	4.44	2.34	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
27	32.120	26.62	0.15	199.91	8.00	3.85	6.11	4.44	6.11	4.44	2.35	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
28	32.080	26.61	0.15	199.77	7.99	3.85	6.13	4.45	6.13	4.45	2.38	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
29	32.040	26.60	0.14	199.41	7.98	3.85	6.16	4.45	6.16	4.45	2.45	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
30	32.000	26.59	0.14	198.48	7.94	3.84	6.25	4.44	6.25	4.44	2.63	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
31	31.960	26.58	0.14	198.48	7.94	3.84	6.26	4.44	6.26	4.44	2.63	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
32	31.920	26.57	0.14	198.48	7.94	3.83	6.26	4.45	6.26	4.45	2.62	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
33	31.880	26.56	0.13	198.48	7.94	3.83	6.27	4.46	6.27	4.46	2.62	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
34	31.840	26.55	0.13	198.48	7.94	3.83	6.27	4.47	6.27	4.47	2.62	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
35	31.800	26.54	0.13	198.48	7.94	3.83	6.28	4.47	6.28	4.47	2.61	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
36	31.760	26.53	0.12	198.48	7.94	3.83	6.29	4.48	6.29	4.48	2.61	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
37	31.720	26.52	0.12	198.48	7.94	3.83	6.29	4.49	6.29	4.49	2.61	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
38	31.680	26.51	0.12	198.48	7.94	3.83	6.30	4.50	6.30	4.50	2.60	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
39	31.640	26.50	0.12	198.48	7.94	3.82	6.31	4.51	6.31	4.51	2.60	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
40	31.600	26.49	0.11	198.48	7.94	3.82	6.31	4.51	6.31	4.51	2.59	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
41	31.560	26.48	0.11	198.48	7.94	3.82	6.32	4.52	6.32	4.52	2.59	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
42	31.520	26.47	0.11	198.48	7.94	3.82	6.32	4.53	6.32	4.53	2.59	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
43	31.480	26.46	0.11	198.48	7.94	3.82	6.33	4.54	6.33	4.54	2.58	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

44	31.440	26.45	0.10	198.48	7.94	3.82	6.34	4.54	6.34	4.54	2.58	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
45	31.400	26.44	0.10	198.47	7.94	3.82	6.35	4.55	6.35	4.55	2.58	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
46	31.360	26.43	0.10	198.45	7.94	3.81	6.36	4.56	6.36	4.56	2.58	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
47	31.320	26.42	0.10	198.41	7.94	3.81	6.38	4.56	6.38	4.56	2.59	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
48	31.280	26.41	0.09	198.28	7.93	3.80	6.42	4.57	6.42	4.57	2.62	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
49	31.240	26.40	0.09	197.97	7.92	3.79	6.51	4.56	6.51	4.56	2.71	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 2 CUTOFF: DUGAS DITCH TO ARPENT C WATER QUALITY CALIBRATION RUN

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
50	UPR RCH	1.03789	26.40	0.09	197.97	7.92	3.79	6.51	4.56	6.51	4.56	2.71	0.00	0.00	0.00	2.00	0.00	0.00
50	WSTLD	0.00680	30.00	0.00	0.00	0.00	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
63	WSTLD	0.00370	26.00	0.00	0.00	0.00	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
50	31.24	31.18	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	594.03	0.001	2.454	0.066
51	31.18	31.12	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	620.13	0.001	2.454	0.066
52	31.12	31.06	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	646.24	0.001	2.454	0.066
53	31.06	31.00	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	672.34	0.001	2.454	0.066
54	31.00	30.94	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	698.45	0.001	2.454	0.066
55	30.94	30.88	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	724.56	0.001	2.454	0.066
56	30.88	30.82	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	750.66	0.001	2.454	0.066
57	30.82	30.76	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	776.77	0.001	2.454	0.066
58	30.76	30.70	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	802.87	0.001	2.454	0.066
59	30.70	30.64	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	828.98	0.001	2.454	0.066
60	30.64	30.58	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	855.08	0.001	2.454	0.066
61	30.58	30.52	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	881.19	0.001	2.454	0.066
62	30.52	30.46	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	907.30	0.001	2.454	0.066
63	30.46	30.40	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	933.41	0.001	2.462	0.067
64	30.40	30.34	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	959.52	0.001	2.462	0.067
65	30.34	30.28	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	985.63	0.001	2.462	0.067
66	30.28	30.22	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1011.74	0.001	2.462	0.067
67	30.22	30.16	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1037.86	0.001	2.462	0.067
68	30.16	30.10	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1063.97	0.001	2.462	0.067
69	30.10	30.04	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1090.08	0.001	2.462	0.067
70	30.04	29.98	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1116.19	0.002	2.462	0.067
71	29.98	29.92	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1142.30	0.002	2.462	0.067
72	29.92	29.86	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1168.41	0.002	2.462	0.067
73	29.86	29.80	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1194.53	0.002	2.462	0.067
74	29.80	29.74	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1220.64	0.002	2.462	0.067
75	29.74	29.68	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1246.75	0.002	2.462	0.067
76	29.68	29.62	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1272.86	0.002	2.462	0.067
77	29.62	29.56	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1298.97	0.002	2.462	0.067
78	29.56	29.50	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1325.09	0.002	2.462	0.067
79	29.50	29.44	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1351.20	0.002	2.462	0.067

80	29.44	29.38	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1377.31	0.002	2.462	0.067
81	29.38	29.32	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1403.42	0.002	2.462	0.067
82	29.32	29.26	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1429.53	0.002	2.462	0.067
83	29.26	29.20	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1455.64	0.002	2.462	0.067
84	29.20	29.14	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1481.76	0.002	2.462	0.067
85	29.14	29.08	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1507.87	0.002	2.462	0.067
86	29.08	29.02	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1533.98	0.002	2.462	0.067
87	29.02	28.96	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1560.09	0.002	2.462	0.067
88	28.96	28.90	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1586.20	0.002	2.462	0.067
89	28.90	28.84	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1612.32	0.002	2.462	0.067
90	28.84	28.78	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1638.43	0.002	2.462	0.067
91	28.78	28.72	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1664.54	0.002	2.462	0.067
92	28.72	28.66	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1690.65	0.002	2.462	0.067
TOT						0.45			40646.25	39336.05					
AVG					0.0665		1.03	15.25			15.75				
CUM						0.60									

********** 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
50	31.180	8.05	1.01	0.16	0.23	0.00	0.04	0.23	0.00	2.99	5.70	5.70	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
51	31.120	8.05	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.99	5.70	5.69	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
52	31.060	8.05	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.99	5.69	5.69	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
53	31.000	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.99	5.68	5.68	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
54	30.940	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.98	5.67	5.67	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
55	30.880	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.98	5.67	5.66	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
56	30.820	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.98	5.66	5.66	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
57	30.760	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.98	5.65	5.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
58	30.700	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.98	5.64	5.64	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
59	30.640	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.98	5.64	5.63	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
60	30.580	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.97	5.63	5.63	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
61	30.520	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.97	5.62	5.62	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
62	30.460	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.97	5.62	5.62	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
63	30.400	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.97	5.62	5.61	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
64	30.340	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.97	5.61	5.61	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
65	30.280	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.96	5.60	5.60	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
66	30.220	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.96	5.59	5.59	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
67	30.160	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.96	5.59	5.59	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
68	30.100	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.96	5.58	5.58	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
69	30.040	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.96	5.57	5.57	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
70	29.980	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.96	5.56	5.56	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
71	29.920	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.95	5.56	5.56	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
72	29.860	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.95	5.55	5.55	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
73	29.800	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.95	5.54	5.54	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
74	29.740	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.95	5.53	5.53	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
75	29.680	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.95	5.53	5.53	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
76	29.620	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.95	5.52	5.52	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
77	29.560	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.94	5.51	5.51	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
78	29.500	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.94	5.51	5.51	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
79	29.440	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.94	5.50	5.50	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
80	29.380	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.94	5.49	5.49	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
81	29.320	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.94	5.49	5.49	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
82	29.260	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.94	5.48	5.48	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00

83	29.200	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.93	5.47	5.47	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
84	29.140	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.93	5.46	5.46	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
85	29.080	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.93	5.46	5.46	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
86	29.020	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.93	5.45	5.45	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
87	28.960	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.93	5.44	5.44	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
88	28.900	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.93	5.44	5.44	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
89	28.840	8.11	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.92	5.43	5.43	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
90	28.780	8.11	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.92	5.42	5.42	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
91	28.720	8.11	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.92	5.42	5.42	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
92	28.660	8.11	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.92	5.41	5.41	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.89	0.12	0.20	0.00	0.03	0.20	0.00	2.00			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
50	31.180	26.39	0.09	197.19	7.89	3.75	6.75	4.53	6.75	4.53	2.94	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
51	31.120	26.38	0.09	197.19	7.89	3.73	6.73	4.53	6.73	4.53	2.93	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
52	31.060	26.37	0.09	197.19	7.89	3.70	6.72	4.52	6.72	4.52	2.91	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
53	31.000	26.36	0.09	197.19	7.89	3.67	6.70	4.51	6.70	4.51	2.90	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
54	30.940	26.35	0.09	197.19	7.89	3.65	6.69	4.50	6.69	4.50	2.88	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
55	30.880	26.34	0.09	197.19	7.89	3.62	6.68	4.50	6.68	4.50	2.87	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
56	30.820	26.33	0.09	197.19	7.89	3.60	6.66	4.49	6.66	4.49	2.86	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
57	30.760	26.33	0.09	197.19	7.89	3.57	6.65	4.48	6.65	4.48	2.84	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
58	30.700	26.32	0.09	197.18	7.89	3.55	6.63	4.47	6.63	4.47	2.83	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
59	30.640	26.31	0.09	197.17	7.89	3.52	6.62	4.46	6.62	4.46	2.82	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
60	30.580	26.30	0.08	197.15	7.89	3.50	6.61	4.46	6.61	4.46	2.81	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
61	30.520	26.29	0.08	197.09	7.88	3.47	6.60	4.45	6.60	4.45	2.81	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
62	30.460	26.28	0.08	196.92	7.88	3.45	6.60	4.44	6.60	4.44	2.83	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
63	30.400	26.27	0.08	196.49	7.86	3.42	6.62	4.42	6.62	4.42	2.90	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
64	30.340	26.26	0.08	196.49	7.86	3.40	6.61	4.41	6.61	4.41	2.88	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
65	30.280	26.25	0.08	196.49	7.86	3.38	6.59	4.40	6.59	4.40	2.87	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
66	30.220	26.24	0.08	196.49	7.86	3.36	6.58	4.40	6.58	4.40	2.86	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
67	30.160	26.23	0.08	196.49	7.86	3.33	6.56	4.39	6.56	4.39	2.84	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
68	30.100	26.22	0.08	196.49	7.86	3.31	6.55	4.38	6.55	4.38	2.83	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
69	30.040	26.21	0.08	196.49	7.86	3.29	6.54	4.37	6.54	4.37	2.81	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
70	29.980	26.20	0.08	196.49	7.86	3.27	6.52	4.37	6.52	4.37	2.80	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
71	29.920	26.20	0.08	196.49	7.86	3.25	6.51	4.36	6.51	4.36	2.79	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
72	29.860	26.19	0.08	196.49	7.86	3.23	6.50	4.35	6.50	4.35	2.77	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
73	29.800	26.18	0.08	196.49	7.86	3.21	6.48	4.35	6.48	4.35	2.76	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
74	29.740	26.17	0.08	196.49	7.86	3.19	6.47	4.34	6.47	4.34	2.75	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
75	29.680	26.16	0.08	196.49	7.86	3.17	6.46	4.33	6.46	4.33	2.73	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
76	29.620	26.15	0.08	196.49	7.86	3.16	6.44	4.32	6.44	4.32	2.72	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
77	29.560	26.14	0.08	196.49	7.86	3.14	6.43	4.32	6.43	4.32	2.71	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
78	29.500	26.13	0.08	196.49	7.86	3.12	6.42	4.31	6.42	4.31	2.69	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
79	29.440	26.12	0.08	196.49	7.86	3.10	6.40	4.30	6.40	4.30	2.68	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
80	29.380	26.11	0.08	196.49	7.86	3.08	6.39	4.30	6.39	4.30	2.67	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
81	29.320	26.10	0.08	196.49	7.86	3.07	6.38	4.29	6.38	4.29	2.65	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
82	29.260	26.09	0.07	196.49	7.86	3.05	6.37	4.28	6.37	4.28	2.64	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
83	29.200	26.08	0.07	196.49	7.86	3.03	6.35	4.27	6.35	4.27	2.63	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
84	29.140	26.07	0.07	196.49	7.86	3.02	6.34	4.27	6.34	4.27	2.62	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
85	29.080	26.07	0.07	196.49	7.86	3.00	6.33	4.26	6.33	4.26	2.60	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
86	29.020	26.06	0.07	196.49	7.86	2.99	6.31	4.25	6.31	4.25	2.59	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

87	28.960	26.05	0.07	196.49	7.86	2.97	6.30	4.25	6.30	4.25	2.58	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
88	28.900	26.04	0.07	196.49	7.86	2.96	6.29	4.24	6.29	4.24	2.57	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
89	28.840	26.03	0.07	196.49	7.86	2.94	6.28	4.23	6.28	4.23	2.56	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
90	28.780	26.02	0.07	196.49	7.86	2.93	6.27	4.23	6.27	4.23	2.55	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
91	28.720	26.01	0.07	196.48	7.86	2.91	6.26	4.22	6.26	4.22	2.54	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
92	28.660	26.00	0.07	196.46	7.86	2.90	6.25	4.22	6.25	4.22	2.55	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 3 CUTOFF: ARPENT TO THOROUGHBRED WATER QUALITY CALIBRATION RUN

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
93	UPR RCH	1.04838	26.00	0.07	196.46	7.86	2.90	6.25	4.22	6.25	4.22	2.55	0.00	0.00	0.00	2.00	0.00	0.00
93	WSTLD	0.00044	26.00	0.00	0.00	0.00	2.00	6.60	1.90	6.60	1.90	3.30	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
93	28.66	28.58	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	1738.83	0.001	1.759	0.041
94	28.58	28.50	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	1787.01	0.001	1.759	0.041
95	28.50	28.42	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	1835.19	0.002	1.759	0.041
96	28.42	28.34	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	1883.37	0.002	1.759	0.041
97	28.34	28.26	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	1931.55	0.002	1.759	0.041
98	28.26	28.18	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	1979.74	0.002	1.759	0.041
99	28.18	28.10	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2027.92	0.002	1.759	0.041
100	28.10	28.02	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2076.10	0.002	1.759	0.041
101	28.02	27.94	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2124.28	0.002	1.759	0.041
102	27.94	27.86	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2172.46	0.002	1.759	0.041
103	27.86	27.78	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2220.64	0.002	1.759	0.041
104	27.78	27.70	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2268.82	0.002	1.759	0.041
105	27.70	27.62	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2317.00	0.002	1.759	0.041
TOT						0.29			26569.84	21558.71					
AVG					0.0411		1.23	20.73			25.55				
CUM						0.89									

********** 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
93	28.580	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.44	4.44	0.12	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
94	28.500	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.45	4.45	0.12	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
95	28.420	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.45	4.45	0.12	0.35	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
96	28.340	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.45	4.45	0.12	0.35	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
97	28.260	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.46	4.46	0.12	0.35	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
98	28.180	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.46	4.46	0.12	0.35	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00

99	28.100	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.47	4.47	0.11	0.35	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
100	28.020	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.47	4.47	0.11	0.35	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
101	27.940	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.48	4.48	0.11	0.35	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
102	27.860	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.48	4.48	0.11	0.35	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
103	27.780	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.49	4.49	0.11	0.35	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
104	27.700	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.49	4.49	0.11	0.35	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
105	27.620	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.49	4.49	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.67	0.12	0.20	0.00	0.03	0.20	0.00	1.00			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
93	28.580	26.00	0.07	196.41	7.86	2.87	6.26	4.23	6.26	4.23	2.59	0.00	0.00	0.00	0.00	2.09	0.00	0.	0.00
94	28.500	26.00	0.07	196.41	7.86	2.85	6.27	4.24	6.27	4.24	2.63	0.00	0.00	0.00	0.00	2.18	0.00	0.	0.00
95	28.420	26.00	0.07	196.41	7.86	2.83	6.28	4.24	6.28	4.24	2.67	0.00	0.00	0.00	0.00	2.28	0.00	0.	0.00
96	28.340	26.00	0.07	196.41	7.86	2.81	6.29	4.25	6.29	4.25	2.71	0.00	0.00	0.00	0.00	2.37	0.00	0.	0.00
97	28.260	26.00	0.07	196.41	7.86	2.79	6.30	4.26	6.30	4.26	2.75	0.00	0.00	0.00	0.00	2.46	0.00	0.	0.00
98	28.180	26.00	0.07	196.41	7.86	2.77	6.31	4.27	6.31	4.27	2.79	0.00	0.00	0.00	0.00	2.55	0.00	0.	0.00
99	28.100	26.00	0.07	196.41	7.86	2.75	6.31	4.28	6.31	4.28	2.82	0.00	0.00	0.00	0.00	2.65	0.00	0.	0.00
100	28.020	26.00	0.07	196.41	7.86	2.73	6.32	4.28	6.32	4.28	2.86	0.00	0.00	0.00	0.00	2.74	0.00	0.	0.00
101	27.940	26.00	0.07	196.41	7.86	2.71	6.33	4.29	6.33	4.29	2.90	0.00	0.00	0.00	0.00	2.83	0.00	0.	0.00
102	27.860	26.00	0.07	196.41	7.86	2.69	6.34	4.30	6.34	4.30	2.94	0.00	0.00	0.00	0.00	2.92	0.00	0.	0.00
103	27.780	26.00	0.07	196.41	7.86	2.66	6.35	4.31	6.35	4.31	2.97	0.00	0.00	0.00	0.00	3.02	0.00	0.	0.00
104	27.700	26.00	0.07	196.41	7.86	2.64	6.35	4.31	6.35	4.31	3.00	0.00	0.00	0.00	0.00	3.11	0.00	0.	0.00
105	27.620	26.00	0.07	196.40	7.86	2.61	6.35	4.32	6.35	4.32	3.02	0.00	0.00	0.00	0.00	3.20	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 4 CUTOFF:THOROUGHBRED TO RKM 24.66 WATER QUALITY CALIBRATION RUN

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
106	UPR RCH	1.04882	26.00	0.07	196.40	7.86	2.61	6.35	4.32	6.35	4.32	3.02	0.00	0.00	0.00	3.20	0.00	0.00
109	WSTLD	0.00221	26.00	0.00	0.00	0.00	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
106	27.62	27.54	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2366.24	0.002	1.759	0.041
107	27.54	27.46	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2415.48	0.002	1.759	0.041
108	27.46	27.38	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2464.72	0.002	1.759	0.041
109	27.38	27.30	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2513.96	0.002	1.763	0.041
110	27.30	27.22	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2563.21	0.002	1.763	0.041
111	27.22	27.14	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2612.45	0.002	1.763	0.041

112	27.14	27.06	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2661.69	0.002	1.763	0.041
113	27.06	26.98	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2710.93	0.002	1.763	0.041
114	26.98	26.90	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2760.18	0.002	1.763	0.041
115	26.90	26.82	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2809.42	0.002	1.763	0.041
116	26.82	26.74	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2858.66	0.002	1.763	0.041
117	26.74	26.66	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2907.90	0.002	1.763	0.041
118	26.66	26.58	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2957.15	0.002	1.763	0.041
119	26.58	26.50	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3006.39	0.003	1.763	0.041
120	26.50	26.42	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3055.63	0.003	1.763	0.041
121	26.42	26.34	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3104.87	0.003	1.763	0.041
122	26.34	26.26	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3154.12	0.003	1.763	0.041
123	26.26	26.18	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3203.36	0.003	1.763	0.041
124	26.18	26.10	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3252.60	0.003	1.763	0.041
125	26.10	26.02	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3301.84	0.003	1.763	0.041
126	26.02	25.94	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3351.09	0.003	1.763	0.041
127	25.94	25.86	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3400.33	0.003	1.763	0.041
128	25.86	25.78	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3449.57	0.003	1.763	0.041
129	25.78	25.70	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3498.81	0.003	1.763	0.041
130	25.70	25.62	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3548.06	0.003	1.763	0.041
131	25.62	25.54	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3597.30	0.003	1.763	0.041
132	25.54	25.46	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3646.54	0.003	1.763	0.041
133	25.46	25.38	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3695.78	0.003	1.763	0.041
134	25.38	25.30	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3745.02	0.003	1.763	0.041
135	25.30	25.22	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3794.27	0.003	1.763	0.041
136	25.22	25.14	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3843.51	0.003	1.763	0.041
137	25.14	25.06	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3892.75	0.003	1.763	0.041
138	25.06	24.98	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3941.99	0.003	1.763	0.041
139	24.98	24.90	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3991.24	0.003	1.763	0.041
140	24.90	24.82	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	4040.48	0.003	1.763	0.041
141	24.82	24.74	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	4089.72	0.003	1.763	0.041
142	24.74	24.66	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	4138.96	0.003	1.763	0.041
TOT						0.83			75631.05	61361.82					
AVG					0.0411		1.23	20.73			25.55				
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
106	27.540	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.65	6.67	6.68	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
107	27.460	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.65	6.67	6.67	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
108	27.380	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.65	6.67	6.67	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
109	27.300	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.65	6.67	6.67	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
110	27.220	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.66	6.66	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
111	27.140	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.66	6.66	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
112	27.060	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.65	6.65	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
113	26.980	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.65	6.65	0.10	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
114	26.900	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.64	6.64	0.10	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
115	26.820	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.64	6.64	0.10	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
116	26.740	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.63	6.63	0.10	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
117	26.660	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.63	6.63	0.10	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
118	26.580	8.11	0.75	0.15	0.23	0.00	0.04	0.23	0.00	3.64	6.62	6.51	0.10	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
119	26.500	8.11	0.75	0.15	0.23	0.00	0.04	0.23	0.00	3.64	6.62	6.38	0.09	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
120	26.420	8.11	0.75	0.15	0.23	0.00	0.04	0.23	0.00	3.64	6.61	6.27	0.09	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00

121	26.340	8.12	0.75	0.14	0.23	0.00	0.04	0.23	0.00	3.64	6.61	6.17	0.08	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
122	26.260	8.12	0.75	0.14	0.23	0.00	0.04	0.23	0.00	3.64	6.60	6.08	0.08	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
123	26.180	8.12	0.75	0.14	0.23	0.00	0.04	0.23	0.00	3.64	6.60	5.99	0.07	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
124	26.100	8.12	0.75	0.14	0.23	0.00	0.04	0.23	0.00	3.64	6.60	5.91	0.07	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
125	26.020	8.12	0.75	0.14	0.23	0.00	0.04	0.23	0.00	3.64	6.59	5.84	0.07	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
126	25.940	8.12	0.75	0.14	0.23	0.00	0.04	0.23	0.00	3.63	6.59	5.78	0.06	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
127	25.860	8.12	0.75	0.13	0.23	0.00	0.04	0.23	0.00	3.63	6.59	5.72	0.06	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
128	25.780	8.12	0.75	0.13	0.23	0.00	0.04	0.23	0.00	3.63	6.58	5.67	0.06	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
129	25.700	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.58	5.62	0.06	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
130	25.620	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.58	5.58	0.06	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
131	25.540	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.57	5.54	0.05	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
132	25.460	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.57	5.50	0.05	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
133	25.380	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.57	5.47	0.05	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
134	25.300	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.56	5.44	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
135	25.220	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.56	5.41	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
136	25.140	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.56	5.39	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
137	25.060	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.55	5.37	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
138	24.980	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.55	5.35	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
139	24.900	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.55	5.33	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
140	24.820	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.55	5.31	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
141	24.740	8.12	0.75	0.12	0.23	0.00	0.03	0.23	0.00	3.63	6.54	5.28	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
142	24.660	8.12	0.75	0.12	0.23	0.00	0.03	0.23	0.00	3.62	6.54	5.22	0.04	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.67	0.12	0.20	0.00	0.03	0.20	0.00	2.50			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
106	27.540	26.00	0.07	196.39	7.86	2.55	6.32	4.33	6.32	4.33	3.00	0.00	0.00	0.00	0.00	3.21	0.00	0.	0.00
107	27.460	25.99	0.07	196.36	7.85	2.50	6.30	4.34	6.30	4.34	2.98	0.00	0.00	0.00	0.00	3.22	0.00	0.	0.00
108	27.380	25.99	0.07	196.27	7.85	2.44	6.28	4.35	6.28	4.35	2.97	0.00	0.00	0.00	0.00	3.22	0.00	0.	0.00
109	27.300	25.99	0.08	196.00	7.84	2.39	6.28	4.35	6.28	4.35	3.01	0.00	0.00	0.00	0.00	3.23	0.00	0.	0.00
110	27.220	25.99	0.08	196.00	7.84	2.34	6.26	4.36	6.26	4.36	2.98	0.00	0.00	0.00	0.00	3.24	0.00	0.	0.00
111	27.140	25.98	0.08	196.00	7.84	2.28	6.23	4.37	6.23	4.37	2.96	0.00	0.00	0.00	0.00	3.25	0.00	0.	0.00
112	27.060	25.98	0.08	196.00	7.84	2.23	6.21	4.38	6.21	4.38	2.94	0.00	0.00	0.00	0.00	3.26	0.00	0.	0.00
113	26.980	25.98	0.08	196.00	7.84	2.19	6.19	4.39	6.19	4.39	2.92	0.00	0.00	0.00	0.00	3.26	0.00	0.	0.00
114	26.900	25.98	0.08	196.00	7.84	2.14	6.16	4.39	6.16	4.39	2.89	0.00	0.00	0.00	0.00	3.27	0.00	0.	0.00
115	26.820	25.97	0.08	196.00	7.84	2.09	6.14	4.40	6.14	4.40	2.87	0.00	0.00	0.00	0.00	3.28	0.00	0.	0.00
116	26.740	25.97	0.08	196.00	7.84	2.05	6.12	4.41	6.12	4.41	2.85	0.00	0.00	0.00	0.00	3.29	0.00	0.	0.00
117	26.660	25.97	0.09	196.00	7.84	2.00	6.09	4.42	6.09	4.42	2.83	0.00	0.00	0.00	0.00	3.30	0.00	0.	0.00
118	26.580	25.96	0.09	196.00	7.84	1.96	6.07	4.43	6.07	4.43	2.81	0.00	0.00	0.00	0.00	3.31	0.00	0.	0.00
119	26.500	25.96	0.09	196.00	7.84	1.93	6.05	4.44	6.05	4.44	2.79	0.00	0.00	0.00	0.00	3.31	0.00	0.	0.00
120	26.420	25.96	0.09	196.00	7.84	1.90	6.03	4.45	6.03	4.45	2.77	0.00	0.00	0.00	0.00	3.32	0.00	0.	0.00
121	26.340	25.96	0.09	196.00	7.84	1.87	6.01	4.46	6.01	4.46	2.75	0.00	0.00	0.00	0.00	3.33	0.00	0.	0.00
122	26.260	25.95	0.09	196.00	7.84	1.84	5.99	4.46	5.99	4.46	2.74	0.00	0.00	0.00	0.00	3.34	0.00	0.	0.00
123	26.180	25.95	0.09	196.00	7.84	1.82	5.97	4.47	5.97	4.47	2.72	0.00	0.00	0.00	0.00	3.35	0.00	0.	0.00
124	26.100	25.95	0.10	196.00	7.84	1.79	5.95	4.48	5.95	4.48	2.70	0.00	0.00	0.00	0.00	3.35	0.00	0.	0.00
125	26.020	25.95	0.10	196.00	7.84	1.77	5.93	4.49	5.93	4.49	2.68	0.00	0.00	0.00	0.00	3.36	0.00	0.	0.00
126	25.940	25.94	0.10	196.00	7.84	1.75	5.91	4.50	5.91	4.50	2.67	0.00	0.00	0.00	0.00	3.37	0.00	0.	0.00
127	25.860	25.94	0.10	196.00	7.84	1.74	5.89	4.51	5.89	4.51	2.65	0.00	0.00	0.00	0.00	3.38	0.00	0.	0.00
128	25.780	25.94	0.10	196.00	7.84	1.72	5.87	4.52	5.87	4.52	2.63	0.00	0.00	0.00	0.00	3.39	0.00	0.	0.00
129	25.700	25.94	0.10	196.00	7.84	1.71	5.86	4.53	5.86	4.53	2.62	0.00	0.00	0.00	0.00	3.39	0.00	0.	0.00
130	25.620	25.93	0.10	196.00	7.84	1.70	5.84	4.53	5.84	4.53	2.60	0.00	0.00	0.00	0.00	3.40	0.00	0.	0.00

131	25.540	25.93	0.11	196.00	7.84	1.69	5.82	4.54	5.82	4.54	2.58	0.00	0.00	0.00	0.00	3.41	0.00	0.	0.00
132	25.460	25.93	0.11	196.00	7.84	1.68	5.80	4.55	5.80	4.55	2.57	0.00	0.00	0.00	0.00	3.42	0.00	0.	0.00
133	25.380	25.92	0.11	196.00	7.84	1.67	5.79	4.56	5.79	4.56	2.55	0.00	0.00	0.00	0.00	3.43	0.00	0.	0.00
134	25.300	25.92	0.11	196.00	7.84	1.66	5.77	4.57	5.77	4.57	2.54	0.00	0.00	0.00	0.00	3.44	0.00	0.	0.00
135	25.220	25.92	0.11	196.00	7.84	1.65	5.75	4.58	5.75	4.58	2.52	0.00	0.00	0.00	0.00	3.44	0.00	0.	0.00
136	25.140	25.92	0.11	196.00	7.84	1.64	5.74	4.59	5.74	4.59	2.51	0.00	0.00	0.00	0.00	3.45	0.00	0.	0.00
137	25.060	25.91	0.11	196.00	7.84	1.64	5.72	4.59	5.72	4.59	2.49	0.00	0.00	0.00	0.00	3.46	0.00	0.	0.00
138	24.980	25.91	0.11	196.00	7.84	1.63	5.70	4.60	5.70	4.60	2.48	0.00	0.00	0.00	0.00	3.47	0.00	0.	0.00
139	24.900	25.91	0.12	196.00	7.84	1.63	5.69	4.61	5.69	4.61	2.47	0.00	0.00	0.00	0.00	3.48	0.00	0.	0.00
140	24.820	25.91	0.12	196.00	7.84	1.62	5.67	4.62	5.67	4.62	2.45	0.00	0.00	0.00	0.00	3.48	0.00	0.	0.00
141	24.740	25.90	0.12	196.00	7.84	1.61	5.66	4.63	5.66	4.63	2.44	0.00	0.00	0.00	0.00	3.49	0.00	0.	0.00
142	24.660	25.90	0.12	196.00	7.84	1.59	5.65	4.64	5.65	4.64	2.42	0.00	0.00	0.00	0.00	3.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 5 CUTOFF: RKM 24.66 TO ST CHAS WATER QUALITY CALIBRATION RUN

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
143	UPR RCH	1.05103	25.90	0.12	196.00	7.84	1.59	5.65	4.64	5.65	4.64	2.42	0.00	0.00	0.00	3.50	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
143	24.66	24.58	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4200.75	0.003	1.434	0.032
144	24.58	24.50	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4262.54	0.003	1.434	0.032
145	24.50	24.42	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4324.33	0.003	1.434	0.032
146	24.42	24.34	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4386.12	0.003	1.434	0.032
147	24.34	24.26	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4447.90	0.003	1.434	0.032
148	24.26	24.18	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4509.69	0.003	1.434	0.032
149	24.18	24.10	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4571.48	0.003	1.434	0.032
150	24.10	24.02	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4633.27	0.003	1.434	0.032
151	24.02	23.94	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4695.06	0.003	1.434	0.032
152	23.94	23.86	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4756.85	0.003	1.434	0.032
153	23.86	23.78	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4818.63	0.003	1.434	0.032
154	23.78	23.70	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4880.42	0.003	1.434	0.032
155	23.70	23.62	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4942.21	0.003	1.434	0.032
156	23.62	23.54	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5004.00	0.003	1.434	0.032
157	23.54	23.46	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5065.79	0.003	1.434	0.032
158	23.46	23.38	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5127.57	0.003	1.434	0.032
159	23.38	23.30	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5189.36	0.003	1.434	0.032
160	23.30	23.22	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5251.15	0.003	1.434	0.032
161	23.22	23.14	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5312.94	0.003	1.434	0.032
162	23.14	23.06	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5374.73	0.003	1.434	0.032
163	23.06	22.98	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5436.51	0.003	1.434	0.032
164	22.98	22.90	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5498.30	0.004	1.434	0.032
165	22.90	22.82	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5560.09	0.004	1.434	0.032
166	22.82	22.74	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5621.88	0.004	1.434	0.032
167	22.74	22.66	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5683.67	0.004	1.434	0.032
168	22.66	22.58	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5745.45	0.004	1.434	0.032

169	22.58	22.50	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5807.24	0.004	1.434	0.032
170	22.50	22.42	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5869.03	0.004	1.434	0.032
171	22.42	22.34	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5930.82	0.004	1.434	0.032
172	22.34	22.26	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5992.61	0.004	1.434	0.032
173	22.26	22.18	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	6054.40	0.004	1.434	0.032
174	22.18	22.10	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	6116.18	0.004	1.434	0.032
175	22.10	22.02	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	6177.97	0.004	1.434	0.032
176	22.02	21.94	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	6239.76	0.004	1.434	0.032
177	21.94	21.86	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	6301.55	0.004	1.434	0.032
178	21.86	21.78	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	6363.34	0.004	1.434	0.032
TOT						1.05			95799.45	72520.91					
AVG					0.0316		1.32	25.18			33.26				
CUM						2.78									

********** 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
143	24.580	8.12	0.65	0.12	0.23	0.00	0.03	0.23	0.00	5.80	8.93	6.92	0.04	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
144	24.500	8.12	0.65	0.12	0.23	0.00	0.03	0.23	0.00	5.80	8.94	6.75	0.04	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
145	24.420	8.12	0.65	0.11	0.23	0.00	0.03	0.23	0.00	5.80	8.94	6.59	0.03	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
146	24.340	8.12	0.65	0.11	0.23	0.00	0.03	0.23	0.00	5.80	8.94	6.46	0.03	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
147	24.260	8.12	0.65	0.11	0.23	0.00	0.03	0.23	0.00	5.80	8.95	6.34	0.03	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
148	24.180	8.12	0.65	0.11	0.23	0.00	0.03	0.23	0.00	5.80	8.95	6.23	0.03	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
149	24.100	8.12	0.65	0.11	0.23	0.00	0.03	0.23	0.00	5.80	8.96	6.14	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
150	24.020	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.96	6.05	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
151	23.940	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.97	5.98	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
152	23.860	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.97	5.91	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
153	23.780	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.98	5.86	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
154	23.700	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.98	5.81	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
155	23.620	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.99	5.76	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
156	23.540	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.99	5.72	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
157	23.460	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	9.00	5.69	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
158	23.380	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	9.00	5.66	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
159	23.300	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	9.01	5.63	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
160	23.220	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	9.01	5.61	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
161	23.140	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	9.02	5.59	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
162	23.060	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	9.02	5.57	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
163	22.980	8.12	0.65	0.10	0.23	0.00	0.02	0.23	0.00	5.80	9.03	5.55	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
164	22.900	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.03	5.54	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
165	22.820	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.04	5.52	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
166	22.740	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.04	5.51	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
167	22.660	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.05	5.50	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
168	22.580	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.05	5.49	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
169	22.500	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.05	5.49	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
170	22.420	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.06	5.48	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
171	22.340	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.06	5.48	0.02	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
172	22.260	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.07	5.47	0.02	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
173	22.180	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.07	5.47	0.02	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
174	22.100	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.08	5.46	0.02	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
175	22.020	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.08	5.46	0.02	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
176	21.940	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.08	5.45	0.01	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
177	21.860	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.09	5.43	0.01	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
178	21.780	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.08	5.38	0.01	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE	0.58	0.12	0.20	0.00	0.03	0.20	0.00	4.00		0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
143	24.580	25.90	0.12	196.00	7.84	1.55	5.66	4.65	5.66	4.65	2.39	0.00	0.00	0.00	0.00	3.51	0.00	0.	0.00
144	24.500	25.90	0.12	196.00	7.84	1.51	5.66	4.66	5.66	4.66	2.37	0.00	0.00	0.00	0.00	3.53	0.00	0.	0.00
145	24.420	25.90	0.12	196.00	7.84	1.47	5.66	4.67	5.66	4.67	2.34	0.00	0.00	0.00	0.00	3.54	0.00	0.	0.00
146	24.340	25.90	0.12	196.00	7.84	1.44	5.67	4.68	5.67	4.68	2.32	0.00	0.00	0.00	0.00	3.56	0.00	0.	0.00
147	24.260	25.90	0.12	196.00	7.84	1.42	5.67	4.69	5.67	4.69	2.30	0.00	0.00	0.00	0.00	3.57	0.00	0.	0.00
148	24.180	25.90	0.12	196.00	7.84	1.39	5.68	4.70	5.68	4.70	2.27	0.00	0.00	0.00	0.00	3.58	0.00	0.	0.00
149	24.100	25.90	0.12	196.00	7.84	1.37	5.68	4.71	5.68	4.71	2.25	0.00	0.00	0.00	0.00	3.60	0.00	0.	0.00
150	24.020	25.90	0.12	196.00	7.84	1.35	5.69	4.72	5.69	4.72	2.23	0.00	0.00	0.00	0.00	3.61	0.00	0.	0.00
151	23.940	25.90	0.12	196.00	7.84	1.33	5.70	4.73	5.70	4.73	2.21	0.00	0.00	0.00	0.00	3.62	0.00	0.	0.00
152	23.860	25.90	0.12	196.00	7.84	1.32	5.70	4.74	5.70	4.74	2.18	0.00	0.00	0.00	0.00	3.64	0.00	0.	0.00
153	23.780	25.90	0.12	196.00	7.84	1.30	5.71	4.75	5.71	4.75	2.16	0.00	0.00	0.00	0.00	3.65	0.00	0.	0.00
154	23.700	25.90	0.12	196.00	7.84	1.29	5.71	4.76	5.71	4.76	2.14	0.00	0.00	0.00	0.00	3.67	0.00	0.	0.00
155	23.620	25.90	0.12	196.00	7.84	1.28	5.72	4.77	5.72	4.77	2.12	0.00	0.00	0.00	0.00	3.68	0.00	0.	0.00
156	23.540	25.90	0.12	196.00	7.84	1.27	5.73	4.78	5.73	4.78	2.10	0.00	0.00	0.00	0.00	3.69	0.00	0.	0.00
157	23.460	25.90	0.12	196.00	7.84	1.26	5.73	4.79	5.73	4.79	2.08	0.00	0.00	0.00	0.00	3.71	0.00	0.	0.00
158	23.380	25.90	0.12	196.00	7.84	1.26	5.74	4.80	5.74	4.80	2.06	0.00	0.00	0.00	0.00	3.72	0.00	0.	0.00
159	23.300	25.90	0.12	196.00	7.84	1.25	5.74	4.81	5.74	4.81	2.04	0.00	0.00	0.00	0.00	3.74	0.00	0.	0.00
160	23.220	25.90	0.12	196.00	7.84	1.24	5.75	4.82	5.75	4.82	2.02	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.00
161	23.140	25.90	0.12	196.00	7.84	1.24	5.76	4.83	5.76	4.83	2.00	0.00	0.00	0.00	0.00	3.76	0.00	0.	0.00
162	23.060	25.90	0.12	196.00	7.84	1.23	5.76	4.84	5.76	4.84	1.98	0.00	0.00	0.00	0.00	3.78	0.00	0.	0.00
163	22.980	25.90	0.12	196.00	7.84	1.23	5.77	4.85	5.77	4.85	1.96	0.00	0.00	0.00	0.00	3.79	0.00	0.	0.00
164	22.900	25.90	0.12	196.00	7.84	1.23	5.77	4.86	5.77	4.86	1.94	0.00	0.00	0.00	0.00	3.81	0.00	0.	0.00
165	22.820	25.90	0.12	196.00	7.84	1.22	5.78	4.87	5.78	4.87	1.92	0.00	0.00	0.00	0.00	3.82	0.00	0.	0.00
166	22.740	25.90	0.12	196.00	7.84	1.22	5.79	4.88	5.79	4.88	1.90	0.00	0.00	0.00	0.00	3.83	0.00	0.	0.00
167	22.660	25.90	0.12	196.00	7.84	1.22	5.79	4.89	5.79	4.89	1.89	0.00	0.00	0.00	0.00	3.85	0.00	0.	0.00
168	22.580	25.90	0.12	196.00	7.84	1.21	5.80	4.90	5.80	4.90	1.87	0.00	0.00	0.00	0.00	3.86	0.00	0.	0.00
169	22.500	25.90	0.12	196.00	7.84	1.21	5.81	4.91	5.81	4.91	1.85	0.00	0.00	0.00	0.00	3.88	0.00	0.	0.00
170	22.420	25.90	0.12	196.00	7.84	1.21	5.81	4.91	5.81	4.91	1.83	0.00	0.00	0.00	0.00	3.89	0.00	0.	0.00
171	22.340	25.90	0.12	196.00	7.84	1.21	5.82	4.92	5.82	4.92	1.82	0.00	0.00	0.00	0.00	3.90	0.00	0.	0.00
172	22.260	25.90	0.12	196.00	7.84	1.21	5.82	4.93	5.82	4.93	1.80	0.00	0.00	0.00	0.00	3.92	0.00	0.	0.00
173	22.180	25.90	0.12	196.00	7.84	1.20	5.83	4.94	5.83	4.94	1.78	0.00	0.00	0.00	0.00	3.93	0.00	0.	0.00
174	22.100	25.90	0.12	196.00	7.84	1.20	5.84	4.95	5.84	4.95	1.76	0.00	0.00	0.00	0.00	3.94	0.00	0.	0.00
175	22.020	25.90	0.12	196.00	7.84	1.20	5.84	4.96	5.84	4.96	1.75	0.00	0.00	0.00	0.00	3.96	0.00	0.	0.00
176	21.940	25.90	0.12	196.00	7.84	1.20	5.85	4.97	5.85	4.97	1.73	0.00	0.00	0.00	0.00	3.97	0.00	0.	0.00
177	21.860	25.90	0.12	196.00	7.84	1.20	5.85	4.97	5.85	4.97	1.72	0.00	0.00	0.00	0.00	3.99	0.00	0.	0.00
178	21.780	25.90	0.12	196.00	7.84	1.18	5.85	4.96	5.85	4.96	1.70	0.00	0.00	0.00	0.00	4.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 6 CUTOFF: ST CHAS TO RKM 19.28 WATER QUALITY CALIBRATION RUN

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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

179	UPR RCH	1.05103	25.90	0.12	196.00	7.84	1.18	5.85	4.96	5.85	4.96	1.70	0.00	0.00	0.00	4.00	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
179	21.78	21.68	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6441.24	0.004	1.448	0.030
180	21.68	21.58	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6519.15	0.004	1.448	0.030
181	21.58	21.48	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6597.05	0.004	1.448	0.030
182	21.48	21.38	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6674.96	0.004	1.448	0.030
183	21.38	21.28	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6752.87	0.004	1.448	0.030
184	21.28	21.18	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6830.77	0.004	1.448	0.030
185	21.18	21.08	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6908.68	0.004	1.448	0.030
186	21.08	20.98	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6986.59	0.004	1.448	0.030
187	20.98	20.88	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7064.49	0.004	1.448	0.030
188	20.88	20.78	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7142.40	0.004	1.448	0.030
189	20.78	20.68	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7220.30	0.004	1.448	0.030
190	20.68	20.58	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7298.21	0.004	1.448	0.030
191	20.58	20.48	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7376.12	0.004	1.448	0.030
192	20.48	20.38	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7454.02	0.005	1.448	0.030
193	20.38	20.28	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7531.93	0.005	1.448	0.030
194	20.28	20.18	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7609.84	0.005	1.448	0.030
195	20.18	20.08	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7687.74	0.005	1.448	0.030
196	20.08	19.98	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7765.65	0.005	1.448	0.030
197	19.98	19.88	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7843.55	0.005	1.448	0.030
198	19.88	19.78	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7921.46	0.005	1.448	0.030
199	19.78	19.68	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7999.37	0.005	1.448	0.030
200	19.68	19.58	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	8077.27	0.005	1.448	0.030
201	19.58	19.48	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	8155.18	0.005	1.448	0.030
202	19.48	19.38	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	8233.09	0.005	1.448	0.030
203	19.38	19.28	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	8310.99	0.005	1.448	0.030
TOT						0.97			88454.63	61451.18					
AVG					0.0297		1.44	24.58			35.38				
CUM						3.75									

********** 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
179	21.680	8.12	0.59	0.09	0.23	0.00	0.02	0.23	0.00	8.55	12.11	6.94	0.01	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
180	21.580	8.12	0.59	0.09	0.23	0.00	0.02	0.23	0.00	8.55	12.09	6.74	0.01	0.35	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
181	21.480	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	12.07	6.57	0.01	0.35	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
182	21.380	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	12.05	6.43	0.01	0.35	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
183	21.280	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	12.03	6.32	0.01	0.35	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
184	21.180	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	12.01	6.22	0.01	0.35	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
185	21.080	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.99	6.14	0.01	0.35	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
186	20.980	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.98	6.07	0.01	0.35	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
187	20.880	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.96	6.02	0.01	0.35	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
188	20.780	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.94	5.97	0.01	0.35	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
189	20.680	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.92	5.94	0.01	0.35	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
190	20.580	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.90	5.91	0.01	0.35	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00

191	20.480	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.89	5.88	0.01	0.35	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
192	20.380	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.87	5.86	0.01	0.35	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
193	20.280	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.85	5.85	0.01	0.35	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
194	20.180	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.83	5.83	0.01	0.35	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
195	20.080	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.82	5.82	0.01	0.35	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
196	19.980	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.80	5.81	0.01	0.35	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
197	19.880	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.79	5.81	0.01	0.35	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
198	19.780	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.77	5.80	0.01	0.35	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
199	19.680	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.75	5.80	0.01	0.35	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
200	19.580	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.74	5.80	0.01	0.35	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
201	19.480	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.72	5.79	0.01	0.35	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
202	19.380	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.71	5.79	0.01	0.35	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
203	19.280	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.69	5.80	0.01	0.35	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.53	0.12	0.20	0.00	0.03	0.20	0.00	5.90			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
179	21.680	25.90	0.12	196.00	7.84	1.15	5.83	4.92	5.83	4.92	1.69	0.00	0.00	0.00	0.00	4.04	0.00	0.	0.00
180	21.580	25.90	0.12	196.00	7.84	1.11	5.81	4.87	5.81	4.87	1.68	0.00	0.00	0.00	0.00	4.08	0.00	0.	0.00
181	21.480	25.90	0.12	196.00	7.84	1.09	5.79	4.83	5.79	4.83	1.67	0.00	0.00	0.00	0.00	4.12	0.00	0.	0.00
182	21.380	25.90	0.12	196.00	7.84	1.07	5.77	4.79	5.77	4.79	1.66	0.00	0.00	0.00	0.00	4.16	0.00	0.	0.00
183	21.280	25.90	0.12	196.00	7.84	1.05	5.76	4.75	5.76	4.75	1.65	0.00	0.00	0.00	0.00	4.20	0.00	0.	0.00
184	21.180	25.90	0.12	196.00	7.84	1.04	5.74	4.70	5.74	4.70	1.64	0.00	0.00	0.00	0.00	4.24	0.00	0.	0.00
185	21.080	25.90	0.12	196.00	7.84	1.02	5.72	4.66	5.72	4.66	1.63	0.00	0.00	0.00	0.00	4.28	0.00	0.	0.00
186	20.980	25.90	0.12	196.00	7.84	1.01	5.71	4.62	5.71	4.62	1.62	0.00	0.00	0.00	0.00	4.32	0.00	0.	0.00
187	20.880	25.90	0.12	196.00	7.84	1.01	5.69	4.58	5.69	4.58	1.62	0.00	0.00	0.00	0.00	4.36	0.00	0.	0.00
188	20.780	25.90	0.12	196.00	7.84	1.00	5.68	4.54	5.68	4.54	1.61	0.00	0.00	0.00	0.00	4.40	0.00	0.	0.00
189	20.680	25.90	0.12	196.00	7.84	1.00	5.66	4.50	5.66	4.50	1.60	0.00	0.00	0.00	0.00	4.44	0.00	0.	0.00
190	20.580	25.90	0.12	196.00	7.84	0.99	5.65	4.46	5.65	4.46	1.59	0.00	0.00	0.00	0.00	4.48	0.00	0.	0.00
191	20.480	25.90	0.12	196.00	7.84	0.99	5.64	4.43	5.64	4.43	1.58	0.00	0.00	0.00	0.00	4.52	0.00	0.	0.00
192	20.380	25.90	0.12	196.00	7.84	0.99	5.62	4.39	5.62	4.39	1.57	0.00	0.00	0.00	0.00	4.56	0.00	0.	0.00
193	20.280	25.90	0.12	196.00	7.84	0.99	5.61	4.35	5.61	4.35	1.56	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.00
194	20.180	25.90	0.12	196.00	7.84	0.99	5.59	4.31	5.59	4.31	1.56	0.00	0.00	0.00	0.00	4.64	0.00	0.	0.00
195	20.080	25.90	0.12	196.00	7.84	0.99	5.58	4.28	5.58	4.28	1.55	0.00	0.00	0.00	0.00	4.68	0.00	0.	0.00
196	19.980	25.90	0.12	196.00	7.84	0.99	5.57	4.24	5.57	4.24	1.54	0.00	0.00	0.00	0.00	4.72	0.00	0.	0.00
197	19.880	25.90	0.12	196.00	7.84	0.99	5.55	4.20	5.55	4.20	1.53	0.00	0.00	0.00	0.00	4.76	0.00	0.	0.00
198	19.780	25.90	0.12	196.00	7.84	0.99	5.54	4.17	5.54	4.17	1.53	0.00	0.00	0.00	0.00	4.80	0.00	0.	0.00
199	19.680	25.90	0.12	196.00	7.84	0.99	5.53	4.13	5.53	4.13	1.52	0.00	0.00	0.00	0.00	4.84	0.00	0.	0.00
200	19.580	25.90	0.12	196.00	7.84	0.99	5.51	4.10	5.51	4.10	1.51	0.00	0.00	0.00	0.00	4.88	0.00	0.	0.00
201	19.480	25.90	0.12	196.00	7.84	0.99	5.50	4.06	5.50	4.06	1.50	0.00	0.00	0.00	0.00	4.92	0.00	0.	0.00
202	19.380	25.90	0.12	196.00	7.84	0.99	5.49	4.03	5.49	4.03	1.50	0.00	0.00	0.00	0.00	4.96	0.00	0.	0.00
203	19.280	25.90	0.12	196.00	7.84	0.99	5.48	4.00	5.48	4.00	1.49	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 7 CUTOFF: RKm 19.28 TO RKM 16.28 WATER QUALITY CALIBRATION RUN

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

ELEM	TYPE	FLOW	TEMP	SALN	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NCM

NO.			deg C	ppt	uS/cm	MG/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL	
204	UPR RCH	1.05103	25.90	0.12	196.00	7.84	0.99	5.48	4.00	5.48	4.00	1.49	0.00	0.00	0.00	5.00	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
204	19.28	19.20	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8375.33	0.005	1.448	0.030
205	19.20	19.12	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8439.66	0.005	1.448	0.030
206	19.12	19.04	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8504.00	0.005	1.448	0.030
207	19.04	18.96	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8568.34	0.005	1.448	0.030
208	18.96	18.88	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8632.67	0.005	1.448	0.030
209	18.88	18.80	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8697.01	0.005	1.448	0.030
210	18.80	18.72	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8761.34	0.005	1.448	0.030
211	18.72	18.64	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8825.68	0.005	1.448	0.030
212	18.64	18.56	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8890.02	0.005	1.448	0.030
213	18.56	18.48	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8954.35	0.005	1.448	0.030
214	18.48	18.40	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9018.69	0.005	1.448	0.030
215	18.40	18.32	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9083.02	0.005	1.448	0.030
216	18.32	18.24	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9147.36	0.006	1.448	0.030
217	18.24	18.16	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9211.70	0.006	1.448	0.030
218	18.16	18.08	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9276.03	0.006	1.448	0.030
219	18.08	18.00	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9340.37	0.006	1.448	0.030
220	18.00	17.92	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9404.70	0.006	1.448	0.030
221	17.92	17.84	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9469.04	0.006	1.448	0.030
222	17.84	17.76	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9533.38	0.006	1.448	0.030
223	17.76	17.68	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9597.71	0.006	1.448	0.030
224	17.68	17.60	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9662.05	0.006	1.448	0.030
225	17.60	17.52	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9726.38	0.006	1.448	0.030
226	17.52	17.44	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9790.72	0.006	1.448	0.030
227	17.44	17.36	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9855.05	0.006	1.448	0.030
228	17.36	17.28	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9919.39	0.006	1.448	0.030
229	17.28	17.20	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9983.73	0.006	1.448	0.030
230	17.20	17.12	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	10048.06	0.006	1.448	0.030
231	17.12	17.04	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	10112.40	0.006	1.448	0.030
232	17.04	16.96	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	10176.73	0.006	1.448	0.030
233	16.96	16.88	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	10241.07	0.006	1.448	0.030
234	16.88	16.80	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	10305.41	0.006	1.448	0.030
TOT						0.97			87746.96	60959.57					
AVG					0.0297		1.44	24.58			35.38				
CUM						4.72									

********** 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
204	19.200	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.56	11.70	5.80	0.01	0.35	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
205	19.120	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.57	11.70	5.81	0.01	0.35	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
206	19.040	8.12	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.58	11.70	5.82	0.01	0.35	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
207	18.960	8.12	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.58	11.70	5.84	0.01	0.35	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00

208	18.880	8.11	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.59	11.70	5.85	0.01	0.35	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
209	18.800	8.11	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.60	11.71	5.86	0.01	0.35	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
210	18.720	8.11	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.60	11.71	5.88	0.01	0.35	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00
211	18.640	8.11	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.61	11.71	5.89	0.01	0.35	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
212	18.560	8.11	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.62	11.71	5.90	0.01	0.35	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
213	18.480	8.10	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.62	11.72	5.92	0.01	0.35	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
214	18.400	8.10	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.63	11.72	5.93	0.01	0.35	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
215	18.320	8.10	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.64	11.72	5.95	0.01	0.35	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
216	18.240	8.10	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.65	11.72	5.96	0.01	0.35	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
217	18.160	8.10	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.65	11.72	5.98	0.01	0.35	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
218	18.080	8.09	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.66	11.73	6.00	0.01	0.35	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
219	18.000	8.09	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.67	11.73	6.01	0.01	0.35	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
220	17.920	8.09	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.67	11.73	6.03	0.01	0.35	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
221	17.840	8.09	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.68	11.73	6.05	0.01	0.35	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
222	17.760	8.09	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.69	11.74	6.06	0.01	0.35	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
223	17.680	8.09	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.70	11.74	6.08	0.01	0.35	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
224	17.600	8.08	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.70	11.74	6.10	0.01	0.35	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
225	17.520	8.08	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.71	11.74	6.11	0.01	0.35	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
226	17.440	8.08	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.72	11.75	6.13	0.01	0.35	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
227	17.360	8.08	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.72	11.75	6.15	0.01	0.35	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
228	17.280	8.08	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.73	11.75	6.17	0.01	0.35	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
229	17.200	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.74	11.75	6.18	0.01	0.35	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
230	17.120	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.74	11.76	6.20	0.01	0.35	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
231	17.040	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.75	11.76	6.22	0.01	0.35	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
232	16.960	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.76	11.76	6.24	0.01	0.35	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
233	16.880	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.77	11.76	6.25	0.01	0.35	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
234	16.800	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.77	11.76	6.27	0.01	0.35	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.53	0.12	0.20	0.00	0.03	0.20	0.00	5.90			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
204	19.200	25.91	0.12	196.00	7.84	0.99	5.48	3.98	5.48	3.98	1.48	0.00	0.00	0.00	0.00	5.23	0.00	0.	0.00
205	19.120	25.93	0.12	196.00	7.84	0.99	5.48	3.96	5.48	3.96	1.48	0.00	0.00	0.00	0.00	5.45	0.00	0.	0.00
206	19.040	25.94	0.12	196.00	7.84	1.00	5.48	3.94	5.48	3.94	1.47	0.00	0.00	0.00	0.00	5.68	0.00	0.	0.00
207	18.960	25.95	0.12	196.00	7.84	1.00	5.48	3.92	5.48	3.92	1.47	0.00	0.00	0.00	0.00	5.90	0.00	0.	0.00
208	18.880	25.96	0.12	196.00	7.84	1.00	5.49	3.91	5.49	3.91	1.46	0.00	0.00	0.00	0.00	6.13	0.00	0.	0.00
209	18.800	25.98	0.11	196.00	7.84	1.00	5.49	3.89	5.49	3.89	1.46	0.00	0.00	0.00	0.00	6.35	0.00	0.	0.00
210	18.720	25.99	0.11	196.00	7.84	1.00	5.49	3.87	5.49	3.87	1.45	0.00	0.00	0.00	0.00	6.58	0.00	0.	0.00
211	18.640	26.00	0.11	196.00	7.84	1.01	5.49	3.85	5.49	3.85	1.45	0.00	0.00	0.00	0.00	6.81	0.00	0.	0.00
212	18.560	26.02	0.11	196.00	7.84	1.01	5.49	3.83	5.49	3.83	1.44	0.00	0.00	0.00	0.00	7.03	0.00	0.	0.00
213	18.480	26.03	0.11	196.00	7.84	1.01	5.49	3.82	5.49	3.82	1.43	0.00	0.00	0.00	0.00	7.26	0.00	0.	0.00
214	18.400	26.04	0.11	196.00	7.84	1.01	5.49	3.80	5.49	3.80	1.43	0.00	0.00	0.00	0.00	7.48	0.00	0.	0.00
215	18.320	26.05	0.11	196.00	7.84	1.02	5.49	3.78	5.49	3.78	1.42	0.00	0.00	0.00	0.00	7.71	0.00	0.	0.00
216	18.240	26.07	0.11	196.00	7.84	1.02	5.49	3.77	5.49	3.77	1.42	0.00	0.00	0.00	0.00	7.94	0.00	0.	0.00
217	18.160	26.08	0.11	196.00	7.84	1.02	5.49	3.75	5.49	3.75	1.41	0.00	0.00	0.00	0.00	8.16	0.00	0.	0.00
218	18.080	26.09	0.11	196.00	7.84	1.02	5.49	3.73	5.49	3.73	1.41	0.00	0.00	0.00	0.00	8.39	0.00	0.	0.00
219	18.000	26.11	0.10	196.00	7.84	1.03	5.49	3.72	5.49	3.72	1.41	0.00	0.00	0.00	0.00	8.61	0.00	0.	0.00
220	17.920	26.12	0.10	196.00	7.84	1.03	5.49	3.70	5.49	3.70	1.40	0.00	0.00	0.00	0.00	8.84	0.00	0.	0.00
221	17.840	26.13	0.10	196.00	7.84	1.03	5.49	3.68	5.49	3.68	1.40	0.00	0.00	0.00	0.00	9.06	0.00	0.	0.00
222	17.760	26.15	0.10	196.00	7.84	1.03	5.49	3.67	5.49	3.67	1.39	0.00	0.00	0.00	0.00	9.29	0.00	0.	0.00
223	17.680	26.16	0.10	196.00	7.84	1.04	5.49	3.65	5.49	3.65	1.39	0.00	0.00	0.00	0.00	9.52	0.00	0.	0.00

224	17.600	26.17	0.10	196.00	7.84	1.04	5.49	3.63	5.49	3.63	1.38	0.00	0.00	0.00	0.00	9.74	0.00	0.	0.00
225	17.520	26.18	0.10	196.00	7.84	1.04	5.49	3.62	5.49	3.62	1.38	0.00	0.00	0.00	0.00	9.97	0.00	0.	0.00
226	17.440	26.20	0.10	196.00	7.84	1.04	5.49	3.60	5.49	3.60	1.37	0.00	0.00	0.00	0.00	10.19	0.00	0.	0.00
227	17.360	26.21	0.10	196.00	7.84	1.05	5.49	3.59	5.49	3.59	1.37	0.00	0.00	0.00	0.00	10.42	0.00	0.	0.00
228	17.280	26.22	0.10	196.00	7.84	1.05	5.49	3.57	5.49	3.57	1.36	0.00	0.00	0.00	0.00	10.65	0.00	0.	0.00
229	17.200	26.24	0.09	196.00	7.84	1.05	5.49	3.55	5.49	3.55	1.36	0.00	0.00	0.00	0.00	10.87	0.00	0.	0.00
230	17.120	26.25	0.09	196.00	7.84	1.05	5.48	3.54	5.48	3.54	1.35	0.00	0.00	0.00	0.00	11.10	0.00	0.	0.00
231	17.040	26.26	0.09	196.00	7.84	1.06	5.48	3.52	5.48	3.52	1.35	0.00	0.00	0.00	0.00	11.32	0.00	0.	0.00
232	16.960	26.27	0.09	196.00	7.84	1.06	5.48	3.51	5.48	3.51	1.35	0.00	0.00	0.00	0.00	11.55	0.00	0.	0.00
233	16.880	26.29	0.09	196.00	7.84	1.06	5.48	3.49	5.48	3.49	1.34	0.00	0.00	0.00	0.00	11.77	0.00	0.	0.00
234	16.800	26.30	0.09	196.00	7.84	1.07	5.47	3.48	5.47	3.48	1.35	0.00	0.00	0.00	0.00	12.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 8 CUTOFF: RKM 16.28 TO BAYOU FOLSE WATER QUALITY CALIBRATION RUN

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
235	UPR RCH	1.05103	26.30	0.09	196.00	7.84	1.07	5.47	3.48	5.47	3.48	1.35	0.00	0.00	0.00	12.00	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
235	16.80	16.70	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10388.65	0.006	1.448	0.030
236	16.70	16.60	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10471.90	0.006	1.448	0.030
237	16.60	16.50	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10555.15	0.006	1.448	0.030
238	16.50	16.40	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10638.39	0.006	1.448	0.030
239	16.40	16.30	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10721.64	0.006	1.448	0.030
240	16.30	16.20	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10804.89	0.007	1.448	0.030
241	16.20	16.10	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10888.14	0.007	1.448	0.030
242	16.10	16.00	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10971.38	0.007	1.448	0.030
243	16.00	15.90	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11054.63	0.007	1.448	0.030
244	15.90	15.80	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11137.88	0.007	1.448	0.030
245	15.80	15.70	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11221.12	0.007	1.448	0.030
246	15.70	15.60	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11304.37	0.007	1.448	0.030
247	15.60	15.50	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11387.62	0.007	1.448	0.030
248	15.50	15.40	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11470.87	0.007	1.448	0.030
249	15.40	15.30	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11554.11	0.007	1.448	0.030
250	15.30	15.20	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11637.36	0.007	1.448	0.030
251	15.20	15.10	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11720.61	0.007	1.448	0.030
252	15.10	15.00	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11803.85	0.007	1.448	0.030
253	15.00	14.90	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11887.10	0.007	1.448	0.030
254	14.90	14.80	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11970.35	0.007	1.448	0.030
255	14.80	14.70	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	12053.59	0.007	1.448	0.030
256	14.70	14.60	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	12136.84	0.007	1.448	0.030
257	14.60	14.50	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	12220.09	0.007	1.448	0.030
258	14.50	14.40	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	12303.34	0.007	1.448	0.030
259	14.40	14.30	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	12386.58	0.007	1.448	0.030
TOT						0.97			88454.63	61451.18					

AVG						0.0297				1.44	24.58									35.38			
CUM								5.69															

********** 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
235	16.700	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.77	11.75	6.28	0.01	0.35	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
236	16.600	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.77	11.73	6.30	0.01	0.35	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
237	16.500	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.77	11.72	6.32	0.01	0.35	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
238	16.400	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.70	6.33	0.01	0.35	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
239	16.300	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.68	6.35	0.01	0.35	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
240	16.200	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.67	6.37	0.01	0.35	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
241	16.100	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.65	6.39	0.01	0.35	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
242	16.000	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.64	6.41	0.01	0.35	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
243	15.900	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.62	6.43	0.01	0.35	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
244	15.800	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.61	6.45	0.01	0.35	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
245	15.700	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.59	6.47	0.01	0.35	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
246	15.600	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.58	6.50	0.01	0.35	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
247	15.500	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.57	6.52	0.01	0.35	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
248	15.400	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.55	6.54	0.01	0.35	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
249	15.300	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.54	6.56	0.01	0.35	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
250	15.200	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.52	6.58	0.01	0.35	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
251	15.100	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.51	6.60	0.01	0.35	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
252	15.000	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.49	6.63	0.01	0.35	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
253	14.900	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.48	6.65	0.01	0.35	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00
254	14.800	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.47	6.67	0.01	0.35	0.00	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
255	14.700	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.45	6.69	0.01	0.35	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
256	14.600	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.44	6.72	0.01	0.35	0.00	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
257	14.500	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.43	6.74	0.01	0.35	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
258	14.400	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.42	6.76	0.01	0.35	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
259	14.300	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.42	6.78	0.01	0.35	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.53	0.12	0.20	0.00	0.03	0.20	0.00	5.90			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
235	16.700	26.30	0.09	196.00	7.84	1.07	5.44	3.46	5.44	3.46	1.36	0.00	0.00	0.00	0.00	12.29	0.00	0.	0.00
236	16.600	26.30	0.09	196.00	7.84	1.07	5.42	3.44	5.42	3.44	1.37	0.00	0.00	0.00	0.00	12.58	0.00	0.	0.00
237	16.500	26.30	0.09	196.00	7.84	1.08	5.39	3.41	5.39	3.41	1.38	0.00	0.00	0.00	0.00	12.86	0.00	0.	0.00
238	16.400	26.30	0.09	196.00	7.84	1.08	5.36	3.39	5.36	3.39	1.39	0.00	0.00	0.00	0.00	13.15	0.00	0.	0.00
239	16.300	26.30	0.09	196.00	7.84	1.09	5.34	3.37	5.34	3.37	1.40	0.00	0.00	0.00	0.00	13.44	0.00	0.	0.00
240	16.200	26.30	0.09	196.00	7.84	1.09	5.31	3.35	5.31	3.35	1.41	0.00	0.00	0.00	0.00	13.73	0.00	0.	0.00
241	16.100	26.30	0.09	196.00	7.84	1.10	5.28	3.33	5.28	3.33	1.42	0.00	0.00	0.00	0.00	14.02	0.00	0.	0.00
242	16.000	26.30	0.09	196.00	7.84	1.10	5.26	3.31	5.26	3.31	1.44	0.00	0.00	0.00	0.00	14.30	0.00	0.	0.00
243	15.900	26.30	0.09	196.00	7.84	1.11	5.23	3.30	5.23	3.30	1.45	0.00	0.00	0.00	0.00	14.59	0.00	0.	0.00
244	15.800	26.30	0.09	196.00	7.84	1.11	5.21	3.28	5.21	3.28	1.46	0.00	0.00	0.00	0.00	14.88	0.00	0.	0.00
245	15.700	26.30	0.09	196.00	7.84	1.12	5.18	3.26	5.18	3.26	1.47	0.00	0.00	0.00	0.00	15.17	0.00	0.	0.00
246	15.600	26.30	0.09	196.00	7.84	1.12	5.16	3.24	5.16	3.24	1.48	0.00	0.00	0.00	0.00	15.46	0.00	0.	0.00

247	15.500	26.30	0.09	196.00	7.84	1.13	5.13	3.22	5.13	3.22	1.49	0.00	0.00	0.00	0.00	15.74	0.00	0.	0.00
248	15.400	26.30	0.09	196.00	7.84	1.13	5.11	3.20	5.11	3.20	1.50	0.00	0.00	0.00	0.00	16.03	0.00	0.	0.00
249	15.300	26.30	0.09	196.00	7.84	1.14	5.09	3.18	5.09	3.18	1.51	0.00	0.00	0.00	0.00	16.32	0.00	0.	0.00
250	15.200	26.30	0.09	196.00	7.84	1.14	5.06	3.16	5.06	3.16	1.51	0.00	0.00	0.00	0.00	16.61	0.00	0.	0.00
251	15.100	26.30	0.09	196.00	7.84	1.15	5.04	3.15	5.04	3.15	1.52	0.00	0.00	0.00	0.00	16.90	0.00	0.	0.00
252	15.000	26.30	0.09	196.00	7.84	1.15	5.01	3.13	5.01	3.13	1.53	0.00	0.00	0.00	0.00	17.18	0.00	0.	0.00
253	14.900	26.30	0.09	196.00	7.84	1.16	4.99	3.11	4.99	3.11	1.54	0.00	0.00	0.00	0.00	17.47	0.00	0.	0.00
254	14.800	26.30	0.09	196.00	7.84	1.16	4.97	3.09	4.97	3.09	1.55	0.00	0.00	0.00	0.00	17.76	0.00	0.	0.00
255	14.700	26.30	0.09	196.00	7.84	1.17	4.95	3.08	4.95	3.08	1.56	0.00	0.00	0.00	0.00	18.05	0.00	0.	0.00
256	14.600	26.30	0.09	196.00	7.84	1.17	4.92	3.06	4.92	3.06	1.57	0.00	0.00	0.00	0.00	18.34	0.00	0.	0.00
257	14.500	26.30	0.09	196.00	7.84	1.18	4.91	3.04	4.91	3.04	1.58	0.00	0.00	0.00	0.00	18.62	0.00	0.	0.00
258	14.400	26.30	0.09	196.00	7.84	1.18	4.89	3.02	4.89	3.02	1.59	0.00	0.00	0.00	0.00	18.91	0.00	0.	0.00
259	14.300	26.30	0.09	196.00	7.84	1.19	4.91	3.00	4.91	3.00	1.60	0.00	0.00	0.00	0.00	19.20	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 9 FOLSE: THERIOT CANAL TO RKM 12.3 WATER QUALITY CALIBRATION RUN

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
260	UPR RCH	1.05103	26.30	0.09	196.00	7.84	1.19	4.91	3.00	4.91	3.00	1.60	0.00	0.00	0.00	19.20	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
260	14.30	14.20	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	12478.03	0.007	1.342	0.026
261	14.20	14.10	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	12569.48	0.007	1.342	0.026
262	14.10	14.00	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	12660.92	0.007	1.342	0.026
263	14.00	13.90	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	12752.37	0.007	1.342	0.026
264	13.90	13.80	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	12843.81	0.007	1.342	0.026
265	13.80	13.70	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	12935.26	0.007	1.342	0.026
266	13.70	13.60	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13026.71	0.007	1.342	0.026
267	13.60	13.50	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13118.15	0.007	1.342	0.026
268	13.50	13.40	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13209.60	0.007	1.342	0.026
269	13.40	13.30	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13301.05	0.007	1.342	0.026
270	13.30	13.20	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13392.49	0.007	1.342	0.026
271	13.20	13.10	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13483.94	0.007	1.342	0.026
272	13.10	13.00	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13575.38	0.007	1.342	0.026
273	13.00	12.90	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13666.83	0.007	1.342	0.026
274	12.90	12.80	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13758.28	0.007	1.342	0.026
275	12.80	12.70	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13849.72	0.007	1.342	0.026
276	12.70	12.60	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13941.17	0.007	1.342	0.026
277	12.60	12.50	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14032.62	0.007	1.342	0.026
278	12.50	12.40	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14124.06	0.007	1.342	0.026
279	12.40	12.30	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14215.51	0.007	1.342	0.026
TOT						0.89			81057.05	52420.85					
AVG					0.0259		1.55	26.21			40.53				
CUM						6.58									

********** 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
260	14.200	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.64	6.90	0.01	0.35	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
261	14.100	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.66	6.90	0.01	0.35	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
262	14.000	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.68	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
263	13.900	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.70	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
264	13.800	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.72	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
265	13.700	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.74	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
266	13.600	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.76	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
267	13.500	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.78	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
268	13.400	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.80	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
269	13.300	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.82	6.90	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
270	13.200	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.84	6.90	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
271	13.100	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.86	6.90	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
272	13.000	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.87	6.89	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
273	12.900	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.89	6.89	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
274	12.800	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.91	6.89	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
275	12.700	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.93	6.88	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
276	12.600	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.95	6.88	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
277	12.500	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.96	6.88	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
278	12.400	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.99	6.88	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
279	12.300	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	12.01	6.89	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.48	0.12	0.20	0.00	0.03	0.20	0.00	5.90			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
260	14.200	26.30	0.09	196.00	7.84	1.19	4.99	2.98	4.99	2.98	1.62	0.00	0.00	0.00	0.00	19.22	0.00	0.	0.00
261	14.100	26.30	0.09	196.00	7.84	1.18	5.07	2.96	5.07	2.96	1.64	0.00	0.00	0.00	0.00	19.23	0.00	0.	0.00
262	14.000	26.30	0.09	196.00	7.84	1.18	5.15	2.94	5.15	2.94	1.66	0.00	0.00	0.00	0.00	19.25	0.00	0.	0.00
263	13.900	26.30	0.09	196.00	7.84	1.18	5.23	2.92	5.23	2.92	1.68	0.00	0.00	0.00	0.00	19.26	0.00	0.	0.00
264	13.800	26.30	0.09	196.00	7.84	1.18	5.30	2.91	5.30	2.91	1.70	0.00	0.00	0.00	0.00	19.27	0.00	0.	0.00
265	13.700	26.30	0.09	196.00	7.84	1.18	5.38	2.89	5.38	2.89	1.72	0.00	0.00	0.00	0.00	19.29	0.00	0.	0.00
266	13.600	26.30	0.09	196.00	7.84	1.17	5.45	2.87	5.45	2.87	1.74	0.00	0.00	0.00	0.00	19.31	0.00	0.	0.00
267	13.500	26.30	0.09	196.00	7.84	1.17	5.53	2.85	5.53	2.85	1.75	0.00	0.00	0.00	0.00	19.32	0.00	0.	0.00
268	13.400	26.30	0.09	196.00	7.84	1.17	5.60	2.83	5.60	2.83	1.77	0.00	0.00	0.00	0.00	19.34	0.00	0.	0.00
269	13.300	26.30	0.09	196.00	7.84	1.17	5.67	2.81	5.67	2.81	1.79	0.00	0.00	0.00	0.00	19.35	0.00	0.	0.00
270	13.200	26.30	0.09	196.00	7.84	1.17	5.74	2.79	5.74	2.79	1.81	0.00	0.00	0.00	0.00	19.36	0.00	0.	0.00
271	13.100	26.30	0.09	196.00	7.84	1.16	5.81	2.78	5.81	2.78	1.82	0.00	0.00	0.00	0.00	19.38	0.00	0.	0.00
272	13.000	26.30	0.09	196.00	7.84	1.16	5.88	2.76	5.88	2.76	1.84	0.00	0.00	0.00	0.00	19.40	0.00	0.	0.00
273	12.900	26.30	0.09	196.00	7.84	1.16	5.95	2.74	5.95	2.74	1.86	0.00	0.00	0.00	0.00	19.41	0.00	0.	0.00
274	12.800	26.30	0.09	196.00	7.84	1.16	6.01	2.72	6.01	2.72	1.87	0.00	0.00	0.00	0.00	19.42	0.00	0.	0.00
275	12.700	26.30	0.09	196.00	7.84	1.15	6.08	2.71	6.08	2.71	1.89	0.00	0.00	0.00	0.00	19.44	0.00	0.	0.00
276	12.600	26.30	0.09	196.00	7.84	1.15	6.15	2.69	6.15	2.69	1.91	0.00	0.00	0.00	0.00	19.45	0.00	0.	0.00
277	12.500	26.30	0.09	196.00	7.84	1.15	6.21	2.68	6.21	2.68	1.92	0.00	0.00	0.00	0.00	19.47	0.00	0.	0.00
278	12.400	26.30	0.09	196.00	7.84	1.15	6.27	2.67	6.27	2.67	1.94	0.00	0.00	0.00	0.00	19.49	0.00	0.	0.00
279	12.300	26.30	0.09	196.00	7.84	1.15	6.34	2.69	6.34	2.69	1.95	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 10 FOLSE: RKM 12.30 TO RKM 10.20 WATER QUALITY CALIBRATION RUN

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
280	UPR RCH	1.05103	26.30	0.09	196.00	7.84	1.15	6.34	2.69	6.34	2.69	1.95	0.00	0.00	0.00	19.50	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
280	12.30	12.20	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14309.63	0.008	1.342	0.026
281	12.20	12.10	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14403.76	0.008	1.342	0.026
282	12.10	12.00	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14497.89	0.008	1.342	0.026
283	12.00	11.90	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14592.01	0.008	1.342	0.026
284	11.90	11.80	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14686.14	0.008	1.342	0.026
285	11.80	11.70	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14780.26	0.008	1.342	0.026
286	11.70	11.60	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14874.39	0.008	1.342	0.026
287	11.60	11.50	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14968.52	0.008	1.342	0.026
288	11.50	11.40	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15062.64	0.008	1.342	0.026
289	11.40	11.30	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15156.77	0.008	1.342	0.026
290	11.30	11.20	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15250.89	0.008	1.342	0.026
291	11.20	11.10	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15345.02	0.008	1.342	0.026
292	11.10	11.00	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15439.15	0.008	1.342	0.026
293	11.00	10.90	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15533.27	0.008	1.342	0.026
294	10.90	10.80	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15627.40	0.008	1.342	0.026
295	10.80	10.70	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15721.52	0.008	1.342	0.026
296	10.70	10.60	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15815.65	0.008	1.342	0.026
297	10.60	10.50	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15909.78	0.008	1.342	0.026
298	10.50	10.40	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	16003.90	0.008	1.342	0.026
299	10.40	10.30	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	16098.03	0.008	1.342	0.026
300	10.30	10.20	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	16192.15	0.009	1.342	0.026
TOT						0.94			85109.90	55041.89					
AVG					0.0259		1.55	26.21			40.53				
CUM						7.52									

********** 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
280	12.200	8.06	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.19	11.48	6.60	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
281	12.100	8.06	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.19	11.54	6.65	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
282	12.000	8.06	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.20	11.60	6.69	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
283	11.900	8.06	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.21	11.65	6.72	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
284	11.800	8.05	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.22	11.71	6.74	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00

285	11.700	8.05	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.22	11.77	6.77	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
286	11.600	8.05	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.23	11.82	6.78	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
287	11.500	8.05	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.24	11.88	6.80	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
288	11.400	8.05	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.24	11.93	6.81	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
289	11.300	8.04	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.25	11.99	6.82	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
290	11.200	8.04	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.26	12.04	6.82	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
291	11.100	8.04	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.27	12.10	6.83	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
292	11.000	8.04	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.27	12.15	6.83	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
293	10.900	8.04	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.28	12.20	6.84	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
294	10.800	8.03	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.29	12.25	6.84	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
295	10.700	8.03	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.30	12.31	6.84	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
296	10.600	8.03	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.30	12.36	6.84	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
297	10.500	8.03	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.31	12.41	6.84	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
298	10.400	8.03	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.32	12.46	6.85	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
299	10.300	8.02	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.33	12.51	6.89	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
300	10.200	8.02	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.33	12.56	7.04	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.48	0.12	0.20	0.00	0.03	0.20	0.00	5.50			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
280	12.200	26.31	0.09	196.00	7.84	1.15	6.40	2.77	6.40	2.77	1.96	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
281	12.100	26.33	0.09	196.00	7.84	1.15	6.47	2.84	6.47	2.84	1.96	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
282	12.000	26.34	0.09	196.00	7.84	1.15	6.53	2.92	6.53	2.92	1.97	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
283	11.900	26.36	0.09	196.00	7.84	1.15	6.59	2.99	6.59	2.99	1.98	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
284	11.800	26.37	0.09	196.00	7.84	1.15	6.65	3.07	6.65	3.07	1.99	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
285	11.700	26.39	0.09	196.00	7.84	1.15	6.71	3.14	6.71	3.14	1.99	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
286	11.600	26.40	0.09	196.00	7.84	1.15	6.77	3.22	6.77	3.22	2.00	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
287	11.500	26.41	0.09	196.00	7.84	1.14	6.83	3.29	6.83	3.29	2.01	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
288	11.400	26.43	0.09	196.00	7.84	1.14	6.89	3.36	6.89	3.36	2.01	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
289	11.300	26.44	0.09	196.00	7.84	1.14	6.94	3.43	6.94	3.43	2.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
290	11.200	26.46	0.09	196.00	7.84	1.13	7.00	3.50	7.00	3.50	2.03	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
291	11.100	26.47	0.09	196.00	7.84	1.13	7.05	3.57	7.05	3.57	2.03	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
292	11.000	26.49	0.09	196.00	7.84	1.12	7.11	3.64	7.11	3.64	2.04	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
293	10.900	26.50	0.09	196.00	7.84	1.12	7.16	3.70	7.16	3.70	2.05	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
294	10.800	26.51	0.09	196.00	7.84	1.12	7.22	3.77	7.22	3.77	2.05	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
295	10.700	26.53	0.09	196.00	7.84	1.11	7.27	3.84	7.27	3.84	2.06	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
296	10.600	26.54	0.09	196.00	7.84	1.11	7.32	3.90	7.32	3.90	2.06	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
297	10.500	26.56	0.09	196.00	7.84	1.10	7.37	3.96	7.37	3.96	2.07	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
298	10.400	26.57	0.09	196.00	7.84	1.10	7.42	4.03	7.42	4.03	2.08	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
299	10.300	26.59	0.09	196.00	7.84	1.10	7.47	4.09	7.47	4.09	2.08	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
300	10.200	26.60	0.09	196.00	7.84	1.12	7.53	4.15	7.53	4.15	2.10	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 11 FOLSE: RKM 10.20 TO RKM 7.40 WATER QUALITY CALIBRATION RUN

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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

301	UPR RCH	1.05103	26.60	0.09	196.00	7.84	1.12	7.53	4.15	7.53	4.15	2.10	0.00	0.00	0.00	19.50	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
301	10.20	10.00	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	16498.58	0.005	0.851	0.016
302	10.00	9.80	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	16805.00	0.005	0.851	0.016
303	9.80	9.60	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	17111.42	0.006	0.851	0.016
304	9.60	9.40	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	17417.84	0.006	0.851	0.016
305	9.40	9.20	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	17724.26	0.006	0.851	0.016
306	9.20	9.00	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	18030.69	0.006	0.851	0.016
307	9.00	8.80	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	18337.11	0.006	0.851	0.016
308	8.80	8.60	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	18643.53	0.006	0.851	0.016
309	8.60	8.40	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	18949.95	0.006	0.851	0.016
310	8.40	8.20	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	19256.37	0.006	0.851	0.016
311	8.20	8.00	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	19562.79	0.006	0.851	0.016
312	8.00	7.80	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	19869.22	0.006	0.851	0.016
313	7.80	7.60	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	20175.64	0.007	0.851	0.016
314	7.60	7.40	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	20482.06	0.007	0.851	0.016
TOT						2.02			183438.48	115219.99					
AVG					0.0160		1.59	41.15			65.51				
CUM						9.54									

********** 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
301	10.000	8.02	0.50	0.10	0.23	0.00	0.03	0.23	0.00	3.03	7.44	4.59	0.02	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
302	9.800	8.02	0.50	0.10	0.23	0.00	0.03	0.23	0.00	3.03	7.50	4.92	0.02	0.35	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
303	9.600	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.56	5.15	0.03	0.35	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
304	9.400	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.61	5.30	0.03	0.35	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
305	9.200	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.67	5.40	0.03	0.35	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
306	9.000	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.71	5.47	0.03	0.35	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
307	8.800	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.76	5.52	0.03	0.35	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
308	8.600	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.81	5.55	0.03	0.35	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
309	8.400	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.85	5.57	0.03	0.35	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
310	8.200	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.89	5.59	0.03	0.35	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
311	8.000	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.93	5.60	0.03	0.35	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
312	7.800	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.97	5.61	0.03	0.35	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
313	7.600	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	8.00	5.61	0.03	0.35	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
314	7.400	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	8.03	5.61	0.03	0.35	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.44	0.12	0.20	0.00	0.03	0.20	0.00	2.00			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
301	10.000	26.60	0.09	196.00	7.84	1.23	7.62	4.22	7.62	4.22	2.13	0.00	0.00	0.00	0.00	19.54	0.00	0.	0.00
302	9.800	26.60	0.09	196.00	7.84	1.31	7.72	4.29	7.72	4.29	2.17	0.00	0.00	0.00	0.00	19.57	0.00	0.	0.00
303	9.600	26.60	0.09	196.00	7.84	1.36	7.80	4.36	7.80	4.36	2.20	0.00	0.00	0.00	0.00	19.61	0.00	0.	0.00
304	9.400	26.60	0.09	196.00	7.84	1.39	7.88	4.43	7.88	4.43	2.23	0.00	0.00	0.00	0.00	19.64	0.00	0.	0.00
305	9.200	26.60	0.09	196.00	7.84	1.41	7.95	4.49	7.95	4.49	2.26	0.00	0.00	0.00	0.00	19.68	0.00	0.	0.00
306	9.000	26.60	0.09	196.00	7.84	1.42	8.02	4.56	8.02	4.56	2.29	0.00	0.00	0.00	0.00	19.71	0.00	0.	0.00
307	8.800	26.60	0.09	196.00	7.84	1.42	8.09	4.62	8.09	4.62	2.32	0.00	0.00	0.00	0.00	19.75	0.00	0.	0.00
308	8.600	26.60	0.09	196.00	7.84	1.42	8.15	4.67	8.15	4.67	2.34	0.00	0.00	0.00	0.00	19.79	0.00	0.	0.00
309	8.400	26.60	0.09	196.00	7.84	1.42	8.21	4.73	8.21	4.73	2.36	0.00	0.00	0.00	0.00	19.82	0.00	0.	0.00
310	8.200	26.60	0.09	196.00	7.84	1.42	8.27	4.78	8.27	4.78	2.38	0.00	0.00	0.00	0.00	19.86	0.00	0.	0.00
311	8.000	26.60	0.09	196.00	7.84	1.41	8.32	4.83	8.32	4.83	2.41	0.00	0.00	0.00	0.00	19.89	0.00	0.	0.00
312	7.800	26.60	0.09	196.00	7.84	1.41	8.37	4.88	8.37	4.88	2.43	0.00	0.00	0.00	0.00	19.93	0.00	0.	0.00
313	7.600	26.60	0.09	196.00	7.84	1.40	8.42	4.93	8.42	4.93	2.45	0.00	0.00	0.00	0.00	19.96	0.00	0.	0.00
314	7.400	26.60	0.09	196.00	7.84	1.40	8.46	4.96	8.46	4.96	2.46	0.00	0.00	0.00	0.00	20.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 12 FOLSE: RKM 7.40 TO RACELAND C. WATER QUALITY CALIBRATION RUN

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
315	UPR RCH	1.05103	26.60	0.09	196.00	7.84	1.40	8.46	4.96	8.46	4.96	2.46	0.00	0.00	0.00	20.00	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
315	7.40	7.25	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	20721.34	0.007	0.851	0.016
316	7.25	7.10	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	20960.63	0.007	0.851	0.016
317	7.10	6.95	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	21199.91	0.007	0.851	0.016
318	6.95	6.80	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	21439.19	0.007	0.851	0.016
319	6.80	6.65	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	21678.48	0.007	0.851	0.016
320	6.65	6.50	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	21917.76	0.007	0.851	0.016
321	6.50	6.35	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	22157.04	0.007	0.851	0.016
322	6.35	6.20	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	22396.33	0.007	0.851	0.016
323	6.20	6.05	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	22635.61	0.007	0.851	0.016
324	6.05	5.90	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	22874.89	0.007	0.851	0.016
325	5.90	5.75	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	23114.18	0.008	0.851	0.016
326	5.75	5.60	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	23353.46	0.008	0.851	0.016
327	5.60	5.45	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	23592.74	0.008	0.851	0.016
328	5.45	5.30	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	23832.03	0.008	0.851	0.016
329	5.30	5.15	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	24071.31	0.008	0.851	0.016
330	5.15	5.00	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	24310.59	0.008	0.851	0.016
331	5.00	4.85	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	24549.88	0.008	0.851	0.016
332	4.85	4.70	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	24789.16	0.008	0.851	0.016
TOT						1.95			176887.11	111104.99					
AVG					0.0160		1.59	41.15			65.51				

CUM 11.49

********** 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
315	7.250	8.01	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.04	8.04	5.61	0.03	0.35	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
316	7.100	8.00	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.06	8.05	5.61	0.03	0.35	0.00	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
317	6.950	7.99	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.07	8.06	5.62	0.03	0.35	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
318	6.800	7.98	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.09	8.07	5.62	0.03	0.35	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
319	6.650	7.97	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.10	8.09	5.63	0.03	0.35	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
320	6.500	7.96	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.11	8.10	5.63	0.03	0.35	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
321	6.350	7.95	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.13	8.11	5.64	0.03	0.36	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
322	6.200	7.94	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.14	8.12	5.65	0.03	0.36	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
323	6.050	7.93	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.16	8.13	5.65	0.03	0.36	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
324	5.900	7.92	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.17	8.15	5.66	0.03	0.36	0.00	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00
325	5.750	7.91	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.19	8.16	5.67	0.03	0.36	0.00	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
326	5.600	7.90	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.20	8.17	5.68	0.03	0.36	0.00	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
327	5.450	7.89	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.22	8.18	5.69	0.03	0.36	0.00	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
328	5.300	7.88	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.23	8.19	5.70	0.03	0.36	0.00	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
329	5.150	7.87	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.24	8.21	5.70	0.03	0.36	0.00	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
330	5.000	7.86	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.26	8.22	5.71	0.03	0.36	0.00	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
331	4.850	7.85	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.27	8.23	5.70	0.03	0.36	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00
332	4.700	7.84	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.29	8.24	5.64	0.03	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.44	0.12	0.20	0.00	0.03	0.20	0.00	2.00			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
315	7.250	26.67	0.09	196.00	7.84	1.40	8.45	4.94	8.45	4.94	2.48	0.00	0.00	0.00	0.00	20.06	0.00	0.	0.00
316	7.100	26.74	0.09	196.00	7.84	1.39	8.44	4.92	8.44	4.92	2.50	0.00	0.00	0.00	0.00	20.11	0.00	0.	0.00
317	6.950	26.82	0.09	196.00	7.84	1.39	8.43	4.91	8.43	4.91	2.51	0.00	0.00	0.00	0.00	20.17	0.00	0.	0.00
318	6.800	26.89	0.09	196.00	7.84	1.39	8.42	4.89	8.42	4.89	2.53	0.00	0.00	0.00	0.00	20.22	0.00	0.	0.00
319	6.650	26.96	0.09	196.00	7.84	1.39	8.40	4.87	8.40	4.87	2.54	0.00	0.00	0.00	0.00	20.28	0.00	0.	0.00
320	6.500	27.03	0.09	196.00	7.84	1.39	8.39	4.85	8.39	4.85	2.56	0.00	0.00	0.00	0.00	20.33	0.00	0.	0.00
321	6.350	27.11	0.09	196.00	7.84	1.39	8.38	4.84	8.38	4.84	2.57	0.00	0.00	0.00	0.00	20.39	0.00	0.	0.00
322	6.200	27.18	0.09	196.00	7.84	1.39	8.37	4.82	8.37	4.82	2.58	0.00	0.00	0.00	0.00	20.44	0.00	0.	0.00
323	6.050	27.25	0.10	196.00	7.84	1.39	8.36	4.80	8.36	4.80	2.59	0.00	0.00	0.00	0.00	20.50	0.00	0.	0.00
324	5.900	27.32	0.10	196.00	7.84	1.39	8.34	4.79	8.34	4.79	2.60	0.00	0.00	0.00	0.00	20.56	0.00	0.	0.00
325	5.750	27.39	0.10	196.00	7.84	1.39	8.33	4.77	8.33	4.77	2.61	0.00	0.00	0.00	0.00	20.61	0.00	0.	0.00
326	5.600	27.47	0.10	196.00	7.84	1.39	8.32	4.75	8.32	4.75	2.62	0.00	0.00	0.00	0.00	20.67	0.00	0.	0.00
327	5.450	27.54	0.10	196.00	7.84	1.39	8.30	4.74	8.30	4.74	2.63	0.00	0.00	0.00	0.00	20.72	0.00	0.	0.00
328	5.300	27.61	0.10	196.00	7.84	1.39	8.29	4.72	8.29	4.72	2.64	0.00	0.00	0.00	0.00	20.78	0.00	0.	0.00
329	5.150	27.68	0.10	196.00	7.84	1.39	8.28	4.71	8.28	4.71	2.64	0.00	0.00	0.00	0.00	20.83	0.00	0.	0.00
330	5.000	27.76	0.10	196.00	7.84	1.39	8.26	4.69	8.26	4.69	2.65	0.00	0.00	0.00	0.00	20.89	0.00	0.	0.00
331	4.850	27.83	0.10	196.00	7.84	1.39	8.25	4.68	8.25	4.68	2.66	0.00	0.00	0.00	0.00	20.94	0.00	0.	0.00
332	4.700	27.90	0.10	196.00	7.84	1.37	8.23	4.66	8.23	4.66	2.65	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 13 FOLSE: RACELAND C. TO RKM 2.32 WATER QUALITY CALIBRATION RUN

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
333	UPR RCH	1.05103	27.90	0.10	196.00	7.84	1.37	8.23	4.66	8.23	4.66	2.65	0.00	0.00	0.00	21.00	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
333	4.70	4.58	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	24970.62	0.013	0.991	0.026
334	4.58	4.46	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	25152.09	0.013	0.991	0.026
335	4.46	4.34	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	25333.56	0.014	0.991	0.026
336	4.34	4.22	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	25515.03	0.014	0.991	0.026
337	4.22	4.11	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	25696.49	0.014	0.991	0.026
338	4.11	3.99	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	25877.96	0.014	0.991	0.026
339	3.99	3.87	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	26059.43	0.014	0.991	0.026
340	3.87	3.75	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	26240.89	0.014	0.991	0.026
341	3.75	3.63	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	26422.36	0.014	0.991	0.026
342	3.63	3.51	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	26603.83	0.014	0.991	0.026
343	3.51	3.39	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	26785.29	0.014	0.991	0.026
344	3.39	3.27	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	26966.76	0.014	0.991	0.026
345	3.27	3.15	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	27148.23	0.014	0.991	0.026
346	3.15	3.03	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	27329.69	0.015	0.991	0.026
347	3.03	2.92	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	27511.16	0.015	0.991	0.026
348	2.92	2.80	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	27692.63	0.015	0.991	0.026
349	2.80	2.68	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	27874.09	0.015	0.991	0.026
350	2.68	2.56	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	28055.56	0.015	0.991	0.026
351	2.56	2.44	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	28237.03	0.015	0.991	0.026
352	2.44	2.32	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	28418.49	0.015	0.991	0.026
TOT						1.05			95361.86	89964.01					
AVG					0.0262		1.06	37.80			40.07				
CUM						12.54									

********** 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
333	4.581	7.84	0.78	0.11	0.24	0.00	0.03	0.24	0.00	9.70	12.98	8.22	0.02	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
334	4.462	7.84	0.78	0.10	0.24	0.00	0.03	0.24	0.00	9.70	12.97	7.72	0.02	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
335	4.343	7.84	0.78	0.10	0.24	0.00	0.03	0.24	0.00	9.70	12.96	7.36	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
336	4.224	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.94	7.10	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
337	4.105	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.93	6.91	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
338	3.986	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.92	6.78	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
339	3.867	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.91	6.68	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
340	3.748	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.89	6.61	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00

341	3.629	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.88	6.56	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
342	3.510	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.87	6.52	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
343	3.391	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.86	6.49	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
344	3.272	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.85	6.47	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
345	3.153	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.84	6.46	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
346	3.034	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.83	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
347	2.915	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.82	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
348	2.796	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.81	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
349	2.677	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.80	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
350	2.558	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.79	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
351	2.439	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.78	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
352	2.320	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.77	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.68	0.12	0.20	0.00	0.03	0.20	0.00	5.90			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
333	4.581	27.90	0.10	196.00	7.84	1.27	8.20	4.63	8.20	4.63	2.62	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
334	4.462	27.90	0.10	196.00	7.84	1.19	8.17	4.61	8.17	4.61	2.58	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
335	4.343	27.90	0.10	196.00	7.84	1.14	8.14	4.58	8.14	4.58	2.55	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
336	4.224	27.90	0.10	196.00	7.84	1.10	8.11	4.56	8.11	4.56	2.52	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
337	4.105	27.90	0.10	196.00	7.84	1.07	8.09	4.53	8.09	4.53	2.48	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
338	3.986	27.90	0.10	196.00	7.84	1.05	8.06	4.51	8.06	4.51	2.45	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
339	3.867	27.90	0.10	196.00	7.84	1.04	8.04	4.48	8.04	4.48	2.42	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
340	3.748	27.90	0.10	196.00	7.84	1.03	8.02	4.46	8.02	4.46	2.39	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
341	3.629	27.90	0.10	196.00	7.84	1.02	8.00	4.44	8.00	4.44	2.36	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
342	3.510	27.90	0.10	196.00	7.84	1.01	7.98	4.42	7.98	4.42	2.33	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
343	3.391	27.90	0.10	196.00	7.84	1.01	7.96	4.39	7.96	4.39	2.31	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
344	3.272	27.90	0.10	196.00	7.84	1.01	7.93	4.37	7.93	4.37	2.28	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
345	3.153	27.90	0.10	196.00	7.84	1.01	7.91	4.35	7.91	4.35	2.25	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
346	3.034	27.90	0.10	196.00	7.84	1.01	7.90	4.33	7.90	4.33	2.23	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
347	2.915	27.90	0.10	196.00	7.84	1.01	7.88	4.31	7.88	4.31	2.20	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
348	2.796	27.90	0.10	196.00	7.84	1.01	7.86	4.29	7.86	4.29	2.17	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
349	2.677	27.90	0.10	196.00	7.84	1.01	7.84	4.27	7.84	4.27	2.15	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
350	2.558	27.90	0.10	196.00	7.84	1.01	7.82	4.25	7.82	4.25	2.12	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
351	2.439	27.90	0.10	196.00	7.84	1.01	7.80	4.23	7.80	4.23	2.10	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
352	2.320	27.90	0.10	196.00	7.84	1.01	7.79	4.21	7.79	4.21	2.08	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 14 FOLSE: RKM 2.32 TO COMPANY CANAL WATER QUALITY CALIBRATION RUN

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
353	UPR RCH	1.05103	27.90	0.10	196.00	7.84	1.01	7.79	4.21	7.79	4.21	2.08	0.00	0.00	0.00	21.00	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
353	2.32	2.20	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	28601.74	0.015	0.991	0.026
354	2.20	2.09	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	28784.98	0.015	0.991	0.026
355	2.09	1.97	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	28968.23	0.015	0.991	0.026
356	1.97	1.86	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	29151.47	0.016	0.992	0.026
357	1.86	1.74	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	29334.71	0.016	0.992	0.026
358	1.74	1.62	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	29517.96	0.016	0.993	0.026
359	1.62	1.51	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	29701.20	0.016	0.994	0.026
360	1.51	1.39	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	29884.45	0.016	0.995	0.026
361	1.39	1.28	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	30067.69	0.016	0.996	0.026
362	1.28	1.16	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	30250.94	0.016	0.997	0.026
363	1.16	1.04	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	30434.18	0.016	0.998	0.026
364	1.04	0.93	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	30617.42	0.016	0.999	0.026
365	0.93	0.81	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	30800.67	0.016	1.000	0.026
366	0.81	0.70	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	30983.91	0.017	1.002	0.027
367	0.70	0.58	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	31167.16	0.017	1.003	0.027
368	0.58	0.46	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	31350.40	0.017	1.004	0.027
369	0.46	0.35	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	31533.64	0.017	1.006	0.027
370	0.35	0.23	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	31716.89	0.017	1.007	0.027
371	0.23	0.12	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	31900.13	0.017	1.009	0.027
372	0.12	0.00	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	32083.38	0.017	1.010	0.027
TOT						1.02			92957.76	87695.99					
AVG					0.0262		1.06	37.80			40.07				
CUM						13.56									

********** 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
353	2.204	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.76	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
354	2.088	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.75	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
355	1.972	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.74	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
356	1.856	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.73	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
357	1.740	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.73	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
358	1.624	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.72	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
359	1.508	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.71	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
360	1.392	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.70	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
361	1.276	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.69	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
362	1.160	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.69	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
363	1.044	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.68	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
364	0.928	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.67	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
365	0.812	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.66	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
366	0.696	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.65	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
367	0.580	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.65	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
368	0.464	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.64	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
369	0.348	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.63	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
370	0.232	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.63	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
371	0.116	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.62	6.41	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
372	0.000	7.84	0.79	0.08	0.24	0.00	0.02	0.24	0.00	9.70	12.63	6.18	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.68 0.12 0.20 0.00 0.03 0.20 0.00 5.90 0.10 0.30 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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
353	2.204	27.90	0.10	196.00	7.84	1.01	7.77	4.19	7.77	4.19	2.05	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
354	2.088	27.90	0.10	196.00	7.84	1.01	7.76	4.17	7.76	4.17	2.03	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
355	1.972	27.90	0.10	196.00	7.84	1.01	7.74	4.15	7.74	4.15	2.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
356	1.856	27.90	0.10	196.00	7.84	1.01	7.73	4.13	7.73	4.13	1.99	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
357	1.740	27.90	0.10	196.00	7.84	1.01	7.72	4.11	7.72	4.11	1.97	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
358	1.624	27.90	0.10	196.00	7.84	1.01	7.70	4.09	7.70	4.09	1.95	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
359	1.508	27.90	0.10	196.00	7.84	1.01	7.69	4.07	7.69	4.07	1.93	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
360	1.392	27.90	0.10	196.00	7.84	1.01	7.68	4.05	7.68	4.05	1.91	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
361	1.276	27.90	0.10	196.00	7.84	1.01	7.66	4.03	7.66	4.03	1.89	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
362	1.160	27.90	0.10	196.00	7.84	1.02	7.65	4.01	7.65	4.01	1.87	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
363	1.044	27.90	0.10	196.00	7.84	1.02	7.64	3.99	7.64	3.99	1.85	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
364	0.928	27.90	0.10	196.00	7.84	1.02	7.63	3.98	7.63	3.98	1.83	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
365	0.812	27.90	0.10	196.00	7.84	1.02	7.62	3.96	7.62	3.96	1.82	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
366	0.696	27.90	0.10	196.00	7.84	1.02	7.60	3.94	7.60	3.94	1.80	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
367	0.580	27.90	0.10	196.01	7.84	1.02	7.59	3.92	7.59	3.92	1.78	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
368	0.464	27.90	0.10	196.03	7.85	1.02	7.58	3.91	7.58	3.91	1.76	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
369	0.348	27.90	0.10	196.13	7.90	1.02	7.57	3.89	7.57	3.89	1.75	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
370	0.232	27.90	0.10	196.54	8.06	1.02	7.56	3.88	7.56	3.88	1.73	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
371	0.116	27.90	0.10	198.19	8.74	1.02	7.55	3.87	7.55	3.87	1.72	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
372	0.000	27.90	0.10	204.78	11.46	0.98	7.54	3.89	7.54	3.89	1.73	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

STREAM SUMMARY
BAYOU CUTOFF

WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
WATER QUALITY CALIBRATION RUN

TRAVEL TIME = 13.56 DAYS

MAXIMUM EFFLUENT = 2.00 PERCENT

FLOW	=	1.03000	TO	1.05103	m³/s
DISPERSION	=	0.8508	TO	3.8784	m²/s
VELOCITY	=	0.01604	TO	0.15455	m/s
DEPTH	=	0.65	TO	1.59	m
WIDTH	=	10.35	TO	41.15	m
BOD DECAY	=	0.08	TO	0.16	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	4.44	TO	8.22	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	0.50	TO	1.94	per day
BOD SETTLING	=	0.23	TO	0.24	per day
NBOD DECAY	=	0.01	TO	0.14	per day
NBOD SETTLING	=	0.35	TO	0.36	per day
TEMPERATURE	=	25.90	TO	27.90	deg C
DISSOLVED OXYGEN	=	0.98	TO	3.90	mg/L

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.....EXECUTION COMPLETED
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Appendix B2 – Calibration Justification

Bayou Folse/Cutoff 120302 Calibration Justification			
DATA TYPE 3 - PROGRAM CONSTANTS			
CONSTANT NAME	VALUE	UNITS	DATA SOURCE
DISPERSION EQUATION	3		Equation used to account for all modes of transport.
HEADWATER EXCHANGE RATIO	1		This is done to depict dispersive boundaries - Company Canal and ICWW.
TIDE HEIGHT	0.0426		USGS Site - Company Canal at Salt Water Barrier
TIDAL PERIOD	26		USGS Site - Company Canal at Salt Water Barrier
PERIOD OF TIDAL RISE	12		USGS Site - Company Canal at Salt Water Barrier
K2 MAXIMUM	25	1/day at 20 deg C	EPA Policy in the absence of a measured value.
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.
SETTLING RATE UNITS	2		By making the settling rate a velocity the rate becomes dependent upon the depth.
WIND VELOCITY	0.68		Calculated from Houma Weather Station.
KL MINIMUM	0.7	m/day	The minimum KL of 2.3 ft/day converted to 0.70 m/day.

Bayou Folse/Cutoff 120302 Calibration Justification						
DATA TYPE 8 - REACH IDENTIFICATION DATA						
Reach	**ID**	**Name**	**Upstream River Kilometer**	**Downstream River Kilometer**	**Element Length, meters**	**Data Source**
1	BC	Thibodaux to Dugas Ditch	33.20	31.24	40.0000	ARC MAP Calc.
2	BC	Dugas Ditch to Arpent Canal	31.24	28.66	60.0000	ARC MAP Calc.
3	BC	Arpent Canal to Thoroughbred Canal	28.66	27.62	80.0000	ARC MAP Calc.
4	BC	Thoroughbred Canal to RKM 24.66	27.62	24.66	80.0000	ARC MAP Calc.
5	BC	RKM 24.66 to St. Charles	24.66	21.78	80.0000	ARC MAP Calc.
6	BC	St. Charles to RKM 19.28	21.78	19.28	100.0000	ARC MAP Calc.
7	BC	RKM 19.28 to RKM 16.28	19.28	16.80	80.0000	ARC MAP Calc.
8	BC	RKM 16.28 to Bayou Folse	16.80	14.30	100.0000	ARC MAP Calc.
9	BF	Theriot Canal to RKM 12.3	14.30	12.30	100.0000	ARC MAP Calc.
10	BF	RKM 12.3 to RKM 10.20	12.30	10.20	100.0000	ARC MAP Calc.
11	BF	RKM 10.20 to RKM 7.40	10.20	7.40	200.0000	ARC MAP Calc.
12	BF	RKM 7.40 to Raceland Canal	7.40	4.70	150.0000	ARC MAP Calc.
13	BF	Raceland Canal to RKM 2.32	4.70	2.32	119.0000	ARC MAP Calc.
14	BF	RKM 2.32 to Company Canal	2.32	0.00	116.0000	ARC MAP Calc.

Bayou Folse/Cutoff 120302 Calibration Justification									
		Data Type 9 - Advective Hydraulic Coefficients							
Reach	Name	Width Coeff. "a"	Width Exp. "b"	Width Const. "c"	Data Source	Depth Coeff. "d"	Depth Exp. "e"	Depth Const. "f"	Data Source
1	Thibodaux to Dugas Ditch	0.806	1	9.520	BCUT-01	0.143	1	0.5	BCUT-01
2	Dugas Ditch to Arpent Canal	0.942	1	14.260	BCUT-02	0.07	1	0.960	BCUT-02
3	Arpent Canal to Thoroughbred Canal	0.4	1	20.310	BCUT-03	0.05	1	1.180	BCUT-03
4	Thoroughbred Canal to RKM 24.66	0.4	1	20.310	BCUT-03	0.05	1	1.180	BCUT-03
5	RKM 24.66 to St. Charles	0.762	1	24.380	BCUT-04	0.039	1	1.280	BCUT-04
6	St. Charles to RKM 19.28	0.029	1	24.550	BCUT-06	0.028	1	1.410	BCUT-06
7	RKM 19.28 to RKM 16.28	0.029	1	24.550	BCUT-06	0.028	1	1.410	BCUT-06
8	RKM 16.28 to Bayou Folse	0.029	1	24.550	BCUT-06	0.028	1	1.410	BCUT-06
9	Theriot Canal to RKM 12.3	0.067	1	26.140	BF-03	0.025	1	1.520	BF-03
10	RKM 12.3 to RKM 10.20	0.067	1	26.140	BF-03	0.025	1	1.520	BF-03
11	RKM 10.20 to RKM 7.40	0.333	1	40.800	BF-02	0.021	1	1.570	BF-02
12	RKM 7.40 to Raceland Canal	0.333	1	40.800	BF-02	0.021	1	1.570	BF-02
13	Raceland Canal to RKM 2.32	0	0	37.800	BF-01	0	0	1.060	BF-01
14	RKM 2.32 to Company Canal	0	0	37.800	BF-01	0	0	1.060	BF-01

FOR REACHES 13 AND 14 THE CORRECT WIDTH IS 31.39 METERS AND THE CORRECT DEPTH IS 1.02 METERS. NOTE: AN ERROR IN THE WIDTH AND DEPTH OF BFOL-1 WAS MADE IN THE CALIBRATION AND SUBSEQUENT MODELING INPUT DATA SETS; AN EXTRA MODEL RUN SHOWED THAT THE CHANGE IN WIDTH AND DEPTH MADE NO DIFFERENCE IN THE MODELING RESULTS EXCEPT FOR THE WIDTH AND DEPTH CHARTS/OUTPUT. THIS WILL BE CORRECTED IF AND WHEN THE MODEL HAS TO BE RERUN IN THE FUTURE.

Bayou Folse/Cutoff 120302 Calibration Justification								
DATA TYPE 11-INITIAL CONDITIONS								
Reach	Name	Temp, deg C	DO, mg/l	Data Source	Sal, ppt	Data Source	Chlorophyll a	Data Source
1	Thibodaux to Dugas Ditch	26.90	3.90	BCUT-01 Average Cont Mont	0.22	BCUT-01 Insitu	2.00	Calibration
2	Dugas Ditch to Arpent Canal	26.40	1.37	BCUT-02 Insitu	0.09	BCUT-02 Insitu	2.00	Calibration
3	Arpent Canal to Thoroughbred Canal	26.00	2.40	BCUT-03 Average Cont Mont	0.07	BCUT-03 Insitu	2.00	Calibration
4	Thoroughbred Canal to RKM 24.66	26.00	2.40	BCUT-03 Average Cont Mont	0.07	BCUT-03 Insitu	3.20	Calibration
5	RKM 24.66 to St. Charles	25.90	0.92	BCUT-04 Insitu	0.12	BCUT-04 Insitu	3.50	Calibration
6	St. Charles to RKM 19.28	25.90	0.92	BCUT-04 Insitu	0.12	BCUT-04 Insitu	4.00	Calibration
7	RKM 19.28 to RKM 16.28	25.90	0.92	BCUT-04 Insitu	0.12	BCUT-04 Insitu	5.00	Calibration
8	RKM 16.28 to Bayou Folse	26.30	0.83	BFOL-03 Average Cont Mont	0.09	BFOL-03 Insitu	12.00	Calibration
9	Theriot Canal to RKM 12.3	26.30	0.83	BFOL-03 Average Cont Mont	0.09	BFOL-03 Insitu	19.20	Calibration
10	RKM 12.3 to RKM 10.20	26.30	0.83	BFOL-03 Average Cont Mont	0.09	BFOL-03 Insitu	19.50	Calibration
11	RKM 10.20 to RKM 7.40	26.60	1.44	BFOL-02 Average Cont Mont	0.09	BFOL-02 Insitu	19.50	Calibration
12	RKM 7.40 to Raceland Canal	26.60	1.44	BFOL-02 Average Cont Mont	0.09	BFOL-02 Insitu	20.00	Calibration
13	Raceland Canal to RKM 2.32	27.90	0.88	BFOL-01 Average Cont Mont	0.10	BFOL-01 Insitu	21.00	Calibration
14	RKM 2.32 to Company Canal	27.90	0.88	BFOL-01 Average Cont Mont	0.10	BFOL-01 Insitu	21.00	Calibration

Bayou Folse/Cutoff 120302 Calibration Justification					
		DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS			
REACH	NAME	K2 OPT	Data Source	BKGRND SOD, gmO2/m2/day at 20 deg C	Data Source
1	Thibodaux to Dugas Ditch	11	Texas Equation	2.00	Calibration
2	Dugas Ditch to Arpent Canal	11	Texas Equation	2.00	Calibration
3	Arpent Canal to Thoroughbred Canal	11	Texas Equation	1.00	Calibration
4	Thoroughbred Canal to RKM 24.66	11	Texas Equation	2.50	Calibration
5	RKM 24.66 to St. Charles	11	Texas Equation	4.00	Calibration
6	St. Charles to RKM 19.28	11	Texas Equation	5.90	Calibration
7	RKM 19.28 to RKM 16.28	11	Texas Equation	5.90	Calibration
8	RKM 16.28 to Bayou Folse	11	Texas Equation	5.90	Calibration
9	Theriot Canal to RKM 12.3	11	Texas Equation	5.90	Calibration
10	RKM 12.3 to RKM 10.20	11	Texas Equation	5.50	Calibration
11	RKM 10.20 to RKM 7.40	11	Texas Equation	2.00	Calibration
12	RKM 7.40 to Raceland Canal	11	Texas Equation	2.00	Calibration
13	Raceland Canal to RKM 2.32	11	Texas Equation	5.90	Calibration
14	RKM 2.32 to Company Canal	11	Texas Equation	5.90	Calibration

		0							
		DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS							
REACH	NAME	Aerobic BOD1 Dec Rate (1/day)	Data Source	BOD1 SETT RATE (1/day)	Data Source	Aerobic BOD2 Dec Rate (1/day)	Data Source	BOD2 SETT RATE (1/day)	Data Source
1	Thibodaux to Dugas Ditch	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
2	Dugas Ditch to Arpent Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
3	Arpent Canal to Thoroughbred Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
4	Thoroughbred Canal to RKM 24.66	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
5	RKM 24.66 to St. Charles	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
6	St. Charles to RKM 19.28	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
7	RKM 19.28 to RKM 16.28	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
8	RKM 16.28 to Bayou Folse	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
9	Theriot Canal to RKM 12.3	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
10	RKM 12.3 to RKM 10.20	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
11	RKM 10.20 to RKM 7.40	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
12	RKM 7.40 to Raceland Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
13	Raceland Canal to RKM 2.32	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
14	RKM 2.32 to Company Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration

Bayou Folse/Cutoff 120302 Calibration Justification					
DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS					
Reach	**Name**	**NBOD decay rate, 1/day**	**Data Source**	**NBOD settling rate, 1/day**	**Data Source**
1	Thibodaux to Dugas Ditch	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
2	Dugas Ditch to Arpent Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
3	Arpent Canal to Thoroughbred Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
4	Thoroughbred Canal to RKM 24.66	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
5	RKM 24.66 to St. Charles	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
6	St. Charles to RKM 19.28	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
7	RKM 19.28 to RKM 16.28	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
8	RKM 16.28 to Bayou Folse	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
9	Theriot Canal to RKM 12.3	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
10	RKM 12.3 to RKM 10.20	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
11	RKM 10.20 to RKM 7.40	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
12	RKM 7.40 to Raceland Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
13	Raceland Canal to RKM 2.32	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
14	RKM 2.32 to Company Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration

Bayou Folse/Cutoff 120302 Calibration Justification					
DATA TYPE 19 - NONPOINT SOURCES					
Reach	**Reach Name**	**UCBOD1, kg/day**	**UCBOD2, kg/day**	**NBOD, kg/day**	**Data Source**
1	Thibodaux to Dugas Ditch	60.00	50.00	0.00	Calibration
2	Dugas Ditch to Arpent Canal	50.00	20.00	0.00	Calibration
3	Arpent Canal to Thoroughbred Canal	75.00	40.00	80.00	Calibration
4	Thoroughbred Canal to RKM 24.66	100.00	120.00	25.00	Calibration
5	RKM 24.66 to St. Charles	200.00	150.00	5.00	Calibration
6	St. Charles to RKM 19.28	120.00	10.00	30.00	Calibration
7	RKM 19.28 to RKM 16.28	150.00	35.00	30.00	Calibration
8	RKM 16.28 to Bayou Folse	90.00	30.00	70.00	Calibration
9	Theriot Canal to RKM 12.3	280.00	25.00	85.00	Calibration
10	RKM 12.3 to RKM 10.20	300.00	210.00	75.00	Calibration
11	RKM 10.20 to RKM 7.40	600.00	300.00	195.00	Calibration
12	RKM 7.40 to Raceland Canal	500.00	200.00	195.00	Calibration
13	Raceland Canal to RKM 2.32	210.00	70.00	30.00	Calibration
14	RKM 2.32 to Company Canal	210.00	65.00	30.00	Calibration

Bayou Folse/Cutoff 120302 Calibration Justification									
DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES									
Headwater Name	Element No.	Logical Unit Number	Headwater Flow, cms	Data Source	Temp, deg C	Salinity	Conductivity	Chlorides	Data Source
Bayou Cutoff	1	1	1.0300	Bayou Cutoff headwater flow will be the simulated average flow for the 24 hours prior to the sample time at BCUT-01	26.9	0.22	200.0	8.00	Site BCUT-01 - Cont Mont for Temp, Site BCUT-02 - Insitu for Salinity, Lab for Chlorides

Bayou Folse/Cutoff 120302 Calibration Justification					
DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN					
Headwater Name	Dissolved Oxygen, mg/L	UCBOD1, mg/l	UCBOD2, mg/l	NBOD, mg/l	Data Source
Bayou Cutoff	3.9	5.92	4.23	2.43	BCUT-01 Average Cont Mont for DO Lab for all others.

Bayou Folse/Cutoff 120302 Calibration Justification								
	DATA TYPES 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES							
Wasteload / Withdrawal Name	**EL #**	**Flow, cms**	**Data Source**	**Temperature, deg C**	**Salinity**	**Conductivity**	**Chlorides**	**Data Source**
Lafourche SD#1	30	0.007886	Design Flow of 180,000 gpd	27	0			
Dugas Ditch	50	0.0068	Lafourche WD#1 has a design flow of 108,000 gpd = 0.004732 cms: Lafourche SD#14 has a design flow of 27,200 gpd = 0.001192 cms; Community Sewage Service has a design flow of 20,800 gpd = 0.000911 cms	30	0			
Grand Marnier	63	0.003698	Design Flow of 84,400 gpd	26	0			
Arpent Canal	93	0.000438	Since Harlan's MHP with a Design Flow of 10,000 gpd discharges to this canal, but is assimilated before reaching Bayou Cutoff, a flow of 10,000 gpd was used	26	0			
Thoroughbred Ditch	109	0.002208	(Thoroughbred Park Subdivision) Design Flow of 50,400 gpd	26	0			

Bayou Folse/Cutoff 120302 Calibration Justification						
DATA TYPES 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN						
Wasteload / Withdrawal Name	**EL #**	**DO, mg/l**	**UCBOD1, mg/l**	**UCBOD2, mg/l**	**UNBOD, mg/l**	**Data Source**
Lafourche SD#1	30	2.00	23	0	43	Permit Limits
Dugas Ditch	50	2.00	69	0	64.5	Permit Limits
Grand Marnier	63	2.00	23	0	43	Permit Limits
Arpent Canal	93	2.00	6.6	1.9	3.3	AC-01
Thoroughbred Ditch	109	2.00	23	0	43	Permit Limits

The load for Dugas Canal was erroneously calculated. The UCBOD1 should have been composited from the dischargers for a value of 33.1 mg/l. Similary composited, the UNBOD for Dugas Canal should have been 61.8 mg/l. This would still be a conservative estimate since the dischargers are significantly upstream from Bayou Cutoff. An extra run of the calibration showed no difference in the results. The loads will be corrected in the projection models.

Bayou Folse/Cutoff 120302 Calibration Justification

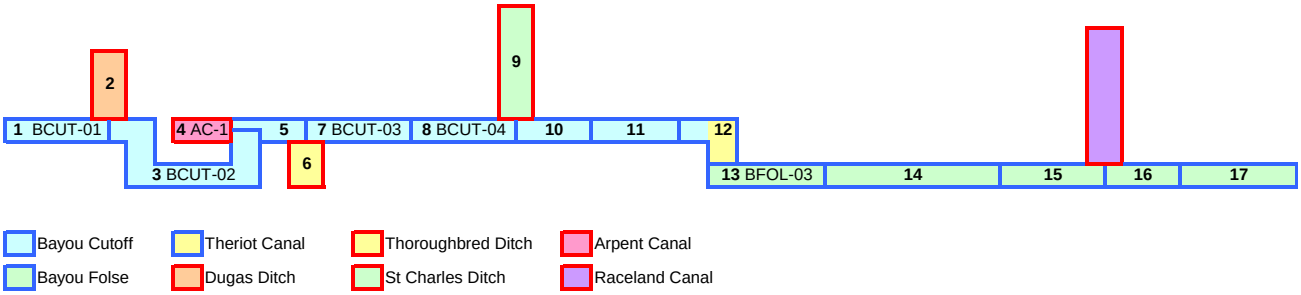
DATA TYPES 27 - LOWER BOUNDARY CONDITIONS

Parameter	Value	Units	Data Source
TEMPERATURE	27.90	^{O}C	BFOL-01 Average Cont Mont
SALINITY	0.10	ppt	BFOL-01 Insitu
CHLORIDES	16.9	ppm	BFOL-01 Lab Data
CONDUCTIVITY	218.00	umhos/cm	BFOL-01 Insitu
DISSOLVED OXYGEN	0.88	mg/L	BFOL-01 Average Cont Mont
CBOD1	7.540	mg/L	BFOL-01 Lab Data
CBOD2	3.960	mg/L	BFOL-01 Lab Data
CHLOROPHYLL A	21.0	ug/L	Calibration
NBOD	1.760	mg/L	BFOL-01 Lab Data

Appendix C - Calibration Model Development

Appendix C1 – Vector Diagram

BAYOU CUTOFF AND BAYOU FOLSE VECTOR DIAGRAM



Appendix C2 – Model Set-up

BAYOU FOLSE 120302					Modeled Length	Element Length				
Reach #	Description	Headwater Yes/No	Starting modeled Kilometer	Ending modeled Kilometer	kilometers	kilometers	Element Count	Cumulative Elements	Begin Element #	End Element #
1	Thibodaux to Dugas Ditch	Yes	33.20	31.24	1.96	0.040	49	49	1	49
2	Dugas Ditch to Arpent Canal	No	31.24	28.66	2.58	0.060	43	92	50	92
3	Arpent Canal to Thoroughbred Canal	No	28.66	27.62	1.04	0.080	13	105	93	105
4	Thoroughbred Canal to RKM 24.66	No	27.62	24.66	2.96	0.080	37	142	106	142
5	RKM 24.66 to St. Charles	No	24.66	21.78	2.88	0.080	36	178	143	178
6	St. Charles to RKM 19.28	No	21.78	19.28	2.50	0.100	25	203	179	203
7	RKM 19.28 to RKM 16.28	No	19.28	16.80	2.48	0.080	31	234	204	234
8	RKM 16.28 to Bayou Folse	No	16.80	14.30	2.50	0.100	25	259	235	259
9	Theriot Canal to RKM 12.3	No	14.30	12.30	2.00	0.100	20	279	260	279
10	RKM 12.3 to RKM 10.20	No	12.30	10.20	2.10	0.100	21	300	280	300
11	RKM 10.20 to RKM 7.40	No	10.20	7.40	2.80	0.200	14	314	301	314
12	RKM 7.40 to Raceland Canal	No	7.40	4.70	2.70	0.150	18	332	315	332
13	Raceland Canal to RKM 2.32	No	4.70	2.32	2.38	0.119	20	352	333	352
14	RKM 2.32 to Company Canal	No	2.32	0.00	2.32	0.116	20	372	353	372

Appendix C3 – Calibration Loading

Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body: **BAYOU FOLSE (SUBSEGMENT 12302)**

Shaded cells are input values for calculations. If modeling the nitrogen series, be sure that column "I" is clear of all values.

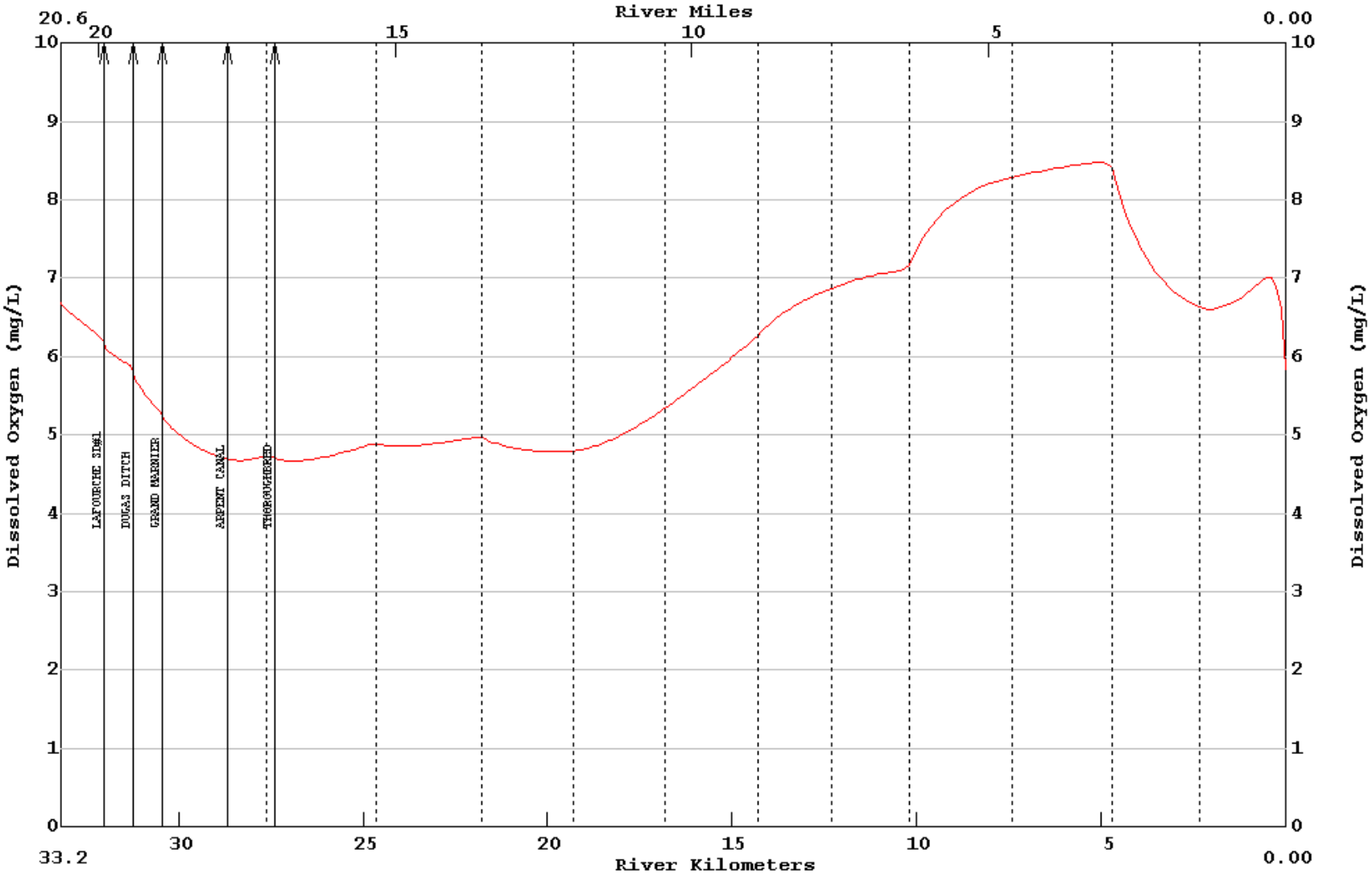
REACH NUMBER & DESCRIPTION	Calibration Model Reach Length	Calibration Model Average Reach Width	Calibration Model UCBOD1 Nonpoint loading	Calibration Model UCBOD2 Nonpoint loading	Calibration Model UNBOD Nonpoint loading	Calibration Model UCBOD1 Nonpoint loading	Calibration Model UCBOD2 Nonpoint loading	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	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)]
Reach 1 - Bayou Cutoff: Thibodaux to Dugas Ditch	**1.96**	**10.36**	**60.00**	**50.00**	**0.00**	**2.954**	**2.462**	**0.000**	**2.00**	**7.42**
Reach 2 - Bayou Cutoff: Dugas Ditch to Arpent Canal	**2.58**	**15.24**	**50.00**	**20.00**	**0.00**	**1.272**	**0.509**	**0.000**	**2.00**	**3.78**
Reach 3 - Bayou Cutoff: Arpent Canal to Thoroughbred Ditch	**1.04**	**20.73**	**75.00**	**40.00**	**80.00**	**3.479**	**1.856**	**3.711**	**1.00**	**10.05**
Reach 4 - Bayou Cutoff: Thoroughbred Ditch to RKM 24.66	**2.96**	**20.73**	**100.00**	**120.00**	**25.00**	**1.630**	**1.956**	**0.407**	**2.50**	**6.49**
Reach 5 - Bayou Cutoff: RKM 24.66 to St. Charles Canal	**2.88**	**25.30**	**200.00**	**150.00**	**5.00**	**2.745**	**2.059**	**0.069**	**4.00**	**8.87**
Reach 6 - Bayou Cutoff: St. Charles Canal to RKM 19.28	**2.50**	**24.69**	**120.00**	**10.00**	**30.00**	**1.944**	**0.162**	**0.486**	**5.90**	**8.49**
Reach 7 - Bayou Cutoff: RKM 19.28 to RKM 16.80	**2.48**	**24.69**	**150.00**	**35.00**	**30.00**	**2.450**	**0.572**	**0.490**	**5.90**	**9.41**
Reach 8 - Bayou Cutoff: RKM 16.28 to Bayou Folse	**2.50**	**24.69**	**90.00**	**30.00**	**70.00**	**1.458**	**0.486**	**1.134**	**5.90**	**8.98**
Reach 9 - Bayou Folse: Theriot Canal to RKM 12.30	**2.00**	**26.21**	**280.00**	**25.00**	**85.00**	**5.341**	**0.477**	**1.621**	**5.90**	**13.34**
Reach 10 - Bayou Folse: RKM 12.30 to RKM 10.20	**2.10**	**26.21**	**300.00**	**210.00**	**75.00**	**5.450**	**3.815**	**1.362**	**5.50**	**16.13**
Reach 11 - Bayou Folse: RKM 10.20 to RKM 7.40	**2.80**	**41.15**	**600.00**	**300.00**	**195.00**	**5.208**	**2.604**	**1.692**	**2.00**	**11.50**
Reach 12 - Bayou Folse: RKM 7.40 to Raceland Canal	**2.70**	**41.15**	**500.00**	**200.00**	**195.00**	**4.500**	**1.800**	**1.755**	**2.00**	**10.06**
Reach 13 - Bayou Folse: Raceland Canal to RKM 2.32	**2.38**	**31.39**	**210.00**	**70.00**	**30.00**	**2.811**	**0.937**	**0.402**	**5.90**	**10.05**
Reach 14 - RKM 2.32 to Company Canal	**2.32**	**31.39**	**210.00**	**65.00**	**30.00**	**2.883**	**0.892**	**0.412**	**5.90**	**10.09**

Appendix D – Projection Model Input and Output Data Sets

Appendix D1 – Summer Output Graphs and Input, Overlay, and Output Files

Final Report
Bayou Folse/Bayou Cutoff Watershed TMDL
Subsegment 120302
Originated: February 6, 2008
Modified: March 31, 2008

LA-QUAL Version 8.11 Run at 09:55 on 02/25/2008
WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION min= 4.67 max= 8.48
WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302



BAYOU FOLSE/BAYOU CUTOFF 120302 SUMMER PROJECTION INPUT DATA SET

```
CNTROL01     WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
CNTROL02     WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION
CNTROL12 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CONDUCTIVITY               IN uS/cm
MODOPT04 YES CONSERVATIVE MATERIAL II = CHLORIDES                  IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07 YES BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT09  NO PHOSPHORUS
MODOPT10  NO CHLOROPHYLL A
MODOPT11  NO MACROPHYTES
MODOPT12  NO COLIFORM
MODOPT13  NO NONCONSERVATIVE MATERIAL
ENDATA02
PROGRAM  DISPERSION EQUATION                =     3.0
PROGRAM  OCEAN EXCHANGE RATIO               =     1.0
PROGRAM  TIDE HEIGHT                        =   0.0426
PROGRAM  TIDAL PERIOD                       =     26.0
PROGRAM  PERIOD OF TIDAL RISE               =     12.0
PROGRAM  K2 MAXIMUM                         =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD       =     2.
PROGRAM  SETTLING RATE UNITS                =     2.
!24 hour wind speed for Houma Weather Station on 6/30/2004
PROGRAM  WIND VELOCITY                      =     0.68
PROGRAM  KL MINIMUM                         =     0.70
ENDATA03
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------**********----------
```

```
!          R#  ID   SITE NAME                            RKM        RKM    LENGTH
REACH ID   1   BC CUTOFF: THIBODAUX TO DUGAS DITCH    33.20      31.24    0.0400
REACH ID   2   BC CUTOFF: DUGAS DITCH TO ARPENT C     31.24      28.66    0.0600
REACH ID   3   BC CUTOFF: ARPENT TO THOROUGHBRED      28.66      27.62    0.0800
REACH ID   4   BC CUTOFF:THOROUGHBRED TO RKM 24.66    27.62      24.66    0.0800
REACH ID   5   BC CUTOFF: RKM 24.66 TO ST CHAS        24.66      21.78    0.0800
REACH ID   6   BC CUTOFF: ST CHAS TO RKM 19.28        21.78      19.28    0.1000
REACH ID   7   BC CUTOFF: RKm 19.28 TO RKM 16.28      19.28      16.80    0.0800
REACH ID   8   BC CUTOFF: RKM 16.28 TO BAYOU FOLSE    16.80      14.30    0.1000
REACH ID   9   BF FOLSE: THERIOT CANAL TO RKM 12.3    14.30      12.30    0.1000
REACH ID  10   BF FOLSE: RKM 12.30 TO RKM 10.20       12.30      10.20    0.1000
REACH ID  11   BF FOLSE: RKM 10.20 TO RKM 7.40        10.20       7.40    0.2000
REACH ID  12   BF FOLSE: RKM 7.40 TO RACELAND C.       7.40       4.70    0.1500
REACH ID  13   BF FOLSE: RACELAND C. TO RKM 2.32       4.70       2.32    0.1190
REACH ID  14   BF FOLSE: RKM 2.32 TO COMPANY CANAL     2.32       0.00    0.1160
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
!LAQUAL reaches are all less than 3 kilometers long to allow flexibility in varying stream geometry.
!Dugas Ditch, Arpent Canal, and Thoroughbred Ditch are modeled with estimated geometry.
!The rating curves, W=aQ**b+c and D=dQ**e+f are developed from measured cross sections.
!Bayou Cutoff BCUT-01
HYDR-1      1   0.806  1.00    9.52  0.143  1.00    0.50          0.050
!Bayou Cutoff BCUT-02
HYDR-1      2   0.942  1.00   14.26  0.070  1.00    0.96          0.050
!Bayou Cutoff BCUT-03
HYDR-1      3   0.400  1.00   20.31  0.050  1.00    1.18          0.050
!Bayou Cutoff BCUT-03
HYDR-1      4   0.400  1.00   20.31  0.050  1.00    1.18          0.050
!Bayou Cutoff BCUT-04
HYDR-1      5   0.762  1.00   24.38  0.039  1.00    1.28          0.050
!Bayou Cutoff BCUT-06
HYDR-1      6   0.029  1.00   24.55  0.028  1.00    1.41          0.050
!Bayou Cutoff BCUT-06
HYDR-1      7   0.029  1.00   24.55  0.028  1.00    1.41          0.050
```

```
!Bayou Cutoff BCUT-06
HYDR-1      8   0.029  1.00   24.55  0.028  1.00    1.41          0.050
!Bayou Folse  BF-03
HYDR-1      9   0.067  1.00   26.14  0.025  1.00    1.52          0.050
!Bayou Folse  BF-03
HYDR-1     10   0.067  1.00   26.14  0.025  1.00    1.52          0.050
!Bayou Folse  BF-02
HYDR-1     11   0.333  1.00   40.80  0.021  1.00    1.57          0.050
!Bayou Folse  BF-02
HYDR-1     12   0.333  1.00   40.80  0.021  1.00    1.57          0.050
!Bayou Folse  BF-01
HYDR-1     13   0.0    0.0    37.80  0.0    0.00    1.06          0.050
!Bayou Folse  BF-01
HYDR-1     14   0.0    0.0    37.80  0.0    0.00    1.06          0.050
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
! Tidal fraction was obtained from Dynhyd Hydrologic Calibration.
! The equation for tidal fraction for mainstem was determined to be:
! [(0.00015758)*(RKM**2)] - [(0.01573894)*(RKM)] + [1.0]
! Middle of Reach 1 is RKM 32.2
HYDR-2      1  0.657  36.000   0.833    0.0       1.0
! Middle of Reach 3 is RKM 30.0
HYDR-2      2  0.670  36.000   0.833    0.0       1.0
! Middle of Reach 5 is RKM 28.1
HYDR-2      3  0.682  36.000   0.833    0.0       1.0
! Middle of Reach 7 is RKM 26.1
HYDR-2      4  0.697  36.000   0.833    0.0       1.0
! Middle of Reach 8 is RKM 23.2
HYDR-2      5  0.720  36.000   0.833    0.0       1.0
! Middle of Reach 9 is RKM 20.5
HYDR-2      6  0.744  36.000   0.833    0.0       1.0
! Middle of Reach 10 is RKM 18.0
HYDR-2      7  0.768  36.000   0.833    0.0       1.0
! Middle of Reach 11 is RKM 15.4
HYDR-2      8  0.795  36.000   0.833    0.0       1.0
```

```
! Middle of Reach 12 is RKM 13.3
HYDR-2      9  0.819  36.000   0.833    0.0       1.0
! Middle of Reach 13 is RKM 11.2
HYDR-2     10  0.843  36.000   0.833    0.0       1.0
! Middle of Reach 14 is RKM 8.8
HYDR-2     11  0.874  36.000   0.833    0.0       1.0
! Middle of Reach is 15 RKM 6.1
HYDR-2     12  0.910  36.000   0.833    0.0       1.0
! Middle of Reach is 16 RKM 3.5
HYDR-2     13  0.947  36.000   0.833    0.0       1.0
! Middle of Reach 17 is RKM 1.2
HYDR-2     14  0.981  36.000   0.833    0.0       1.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO                            CHL A
!CHL A is achieved through calibration.  There are only two sample points on the mainstem.
!The two sample points for CHL A are BCUT-03 and BFOL-03.
!All salinity values are from insitu.
!Temp for all reaches set to 90th percentile temp for WQN 0341
!DO for all reaches is the DO criteria for subsegment 120302
INITIAL     1      30.94   0.22   5.00                            2.0
INITIAL     2      30.94   0.09   5.00                            2.0
INITIAL     3      30.94   0.07   5.00                            2.0
!BCUT-03 for CHL A
INITIAL     4      30.94   0.07   5.00                            3.2
INITIAL     5      30.94   0.12   5.00                            3.5
INITIAL     6      30.94   0.12   5.00                            4.0
INITIAL     7      30.94   0.12   5.00                            5.0
INITIAL     8      30.94   0.09   5.00                           12.0
!BFOL-03 for CHL A
INITIAL     9      30.94   0.09   5.00                           19.2
INITIAL    10      30.94   0.09   5.00                           19.5
INITIAL    11      30.94   0.09   5.00                           19.5
INITIAL    12      30.94   0.09   5.00                           20.0
INITIAL    13      30.94   0.10   5.00                           21.0
INITIAL    14      30.94   0.10   5.00                           21.0
ENDATA11
```

```
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----********----- ******-------*******-------*******-------*******-------***
!Texas equation was determined to be most suitable for this model.
!Settling rates were determined by calibration.
!Decay rate is the average decay rates of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02,
!BFOL-03, CC-01, CC-02, AND AC-01.
!               REA                          BOD 1  BOD 1 BOD1SET       BOD 2    BOD 2 BOD2SET
!          R#   EQ                       SOD  DECAY  SETT   TO SOD       DECAY    SETT   TO SOD
COEF-1      1   11.0                    0.250  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      2   11.0                    0.250  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      3   11.0                    0.125  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      4   11.0                    0.313  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      5   11.0                    0.500  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      6   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      7   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      8   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      9   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     10   11.0                    0.688  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     11   11.0                    0.250  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     12   11.0                    0.250  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     13   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     14   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
!Settling rates were determined by calibration.
!Decay rate is the average decay rates of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02,
!BFOL-03, CC-01, CC-02, AND AC-01.
COEF-2      1    0.100   0.30
COEF-2      2    0.100   0.30
COEF-2      3    0.100   0.30
COEF-2      4    0.100   0.30
COEF-2      5    0.100   0.30
COEF-2      6    0.100   0.30
```

```
COEF-2      7    0.100   0.30
COEF-2      8    0.100   0.30
COEF-2      9    0.100   0.30
COEF-2     10    0.100   0.30
COEF-2     11    0.100   0.30
COEF-2     12    0.100   0.30
COEF-2     13    0.100   0.30
COEF-2     14    0.100   0.30
ENDATA13
ENDATA14
ENDATA15
ENDATA16
ENDATA17
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  ---------********---------********---------********
!          R#     BOD 1    NBOD                                BOD 2
NONPOINT    1     1.418    0.000                               1.182
NONPOINT    2     1.058    0.000                               0.423
NONPOINT    3     0.470    0.502                               0.251
NONPOINT    4     1.785    0.446                               2.142
NONPOINT    5     2.846    0.071                               2.135
NONPOINT    6     1.519    0.380                               0.127
NONPOINT    7     1.883    0.377                               0.439
NONPOINT    8     1.139    0.886                               0.380
NONPOINT    9     2.670    0.811                               0.238
NONPOINT   10     3.004    0.751                               2.103
NONPOINT   11     5.104    1.659                               2.552
NONPOINT   12     4.101    1.599                               1.640
NONPOINT   13     1.990    0.284                               0.663
NONPOINT   14     1.940    0.277                               0.660
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   COND    CHLORIDES
!Bayou Cutoff headwater average flow = 1.03 cms
```

```
!As per regs projection flow = 1/3 avg tidal flow = 0.3433 cms
!BCUT-01 Temp = 90th percentile temp for WQN 0341
!Insitu for Conductivity and Salinity, Lab for Chlorides
HDWTR-1     1  BAYOU CUTOFF             0.343300  30.940    0.22   200.0     8.0
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********---------*********
!          E#      DO      BOD 1    NBOD                      BOD 2
!BCUT-01 DO = 90% DO Sat for WQN 0341 Lab for BOD1, BOD2, and NBOD.
HDWTR-2     1       6.69     0.74     0.30                       0.53
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#             CHL A
HDWTR-3     1                 0.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------********---------********---------********
!          E#     NAME               FLOW      TEMP   SALINITY   COND  CHLORIDES
!Lafourche SD#1 has a design flow of 180,000 gpd = 0.007886 cms
WSTLD-1    30  LAFOURCHE SD#1      0.00986   30.00
!Dugas Ditch
WSTLD-1    50  DUGAS DITCH         0.00850   30.00
!Grand Marnier has a design flow of 84,400 gpd = 0.003698 cms
WSTLD-1    63  GRAND MARNIER       0.00463   30.00
!Harlan's MHP is located on AC has a design flow of 10,000 gpd = 0.000438 cms
!AC-01 Insitu for Temperature
WSTLD-1    93  ARPENT CANAL        0.00283   30.94
!Thoroughbred Park Sub has a design flow of 50,400 gpd = 0.002208 cms
WSTLD-1   109  THOROUGHBRED        0.00275   30.00
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
```

```
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------*********-----********---------*****---------*********
!          E#       DO    BOD 1         NBOD                            BOD 2
!Permit Limits
WSTLD-2    30        2.0   23.00         43.0                                0.0
!Permit Limits
WSTLD-2    50        2.0   33.10         61.8                                0.0
!Permit Limits
WSTLD-2    63        2.0   23.0          43.0                                0.0
!Survey measurement for AC because it if between discharger and Bayou Folse
WSTLD-2    93        5.0    0.25          0.06                               0.13
!Permit Limits
WSTLD-2   109        2.0   23.00         43.00                               0.0
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------*********---------*********
!          E#            CHL A
WSTLD-3    30
WSTLD-3    50
WSTLD-3    63
WSTLD-3    93
WSTLD-3   109
ENDATA26
!90th Percentile Temp for WQN 0341
LOWER BC TEMPERATURE                        =  30.94
!BFOL-01 Insitu
LOWER BC SALINITY                           =   0.10
!BFOL-01 Insitu
LOWER BC CONSERVATIVE MATERIAL I            = 218.00
!BFOL-01 Lab Data
LOWER BC CONSERVATIVE MATERIAL II           =  16.90
!DO Criteria for subsegment 120302
LOWER BC DISSOLVED OXYGEN                   =   5.00
!BFOL-01 Lab Data
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =   7.54
!BFOL-01 Lab Data
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =   3.96
!BFOL-01 Lab Data
```

```
LOWER BC NBOD                                =   1.76
!Calibration
LOWER BC CHLOROPHYLL A                       =  21.00
ENDATA27
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
ENDATA30
ENDATA31
```

BAYOU FOLSE/BAYOU CUTOFF 120302 SUMMER PROJECTION OUTPUT DATA SET FOR 5.0 MG/L DO STANDARD

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LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is O:\Personal_Folders\Karen\Bayou Folse via Karen\Input Files\Folsesum90.txt
Output produced at 09:55 on 02/25/2008

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

CARD TYPE       CONTROL TITLES

TITLE01         WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
TITLE02         WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION
CNTROL12  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CONDUCTIVITY               IN uS/cm
MODOPT04  YES   CONSERVATIVE MATERIAL II = CHLORIDES                  IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07  YES   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT09   NO   PHOSPHORUS
MODOPT10   NO   CHLOROPHYLL A
MODOPT11   NO   MACROPHYTES
MODOPT12   NO   COLIFORM
MODOPT13   NO   NONCONSERVATIVE MATERIAL
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         DISPERSION EQUATION               =         3.00000 (values entered as a function of D,Q,Vmean)
```

```
PROGRAM         OCEAN EXCHANGE RATIO              =         1.00000
PROGRAM         TIDE HEIGHT                       =         0.04260 meters
PROGRAM         TIDAL PERIOD                      =        26.00000 hours
PROGRAM         PERIOD OF TIDAL RISE              =        12.00000 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)
PROGRAM         WIND VELOCITY                     =         0.68000 meters/sec
PROGRAM         KL MINIMUM                        =         0.70000 meters/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   BC  CUTOFF: THIBODAUX TO DUGAS DITCH     33.20  TO   31.24   0.0400     1.96      49        1     49
REACH ID      2   BC  CUTOFF: DUGAS DITCH TO ARPENT C      31.24  TO   28.66   0.0600     2.58      43       50     92
REACH ID      3   BC  CUTOFF: ARPENT TO THOROUGHBRED       28.66  TO   27.62   0.0800     1.04      13       93    105
REACH ID      4   BC  CUTOFF:THOROUGHBRED TO RKM 24.66     27.62  TO   24.66   0.0800     2.96      37      106    142
REACH ID      5   BC  CUTOFF: RKM 24.66 TO ST CHAS         24.66  TO   21.78   0.0800     2.88      36      143    178
REACH ID      6   BC  CUTOFF: ST CHAS TO RKM 19.28         21.78  TO   19.28   0.1000     2.50      25      179    203
REACH ID      7   BC  CUTOFF: RKm 19.28 TO RKM 16.28       19.28  TO   16.80   0.0800     2.48      31      204    234
REACH ID      8   BC  CUTOFF: RKM 16.28 TO BAYOU FOLSE     16.80  TO   14.30   0.1000     2.50      25      235    259
REACH ID      9   BF  FOLSE: THERIOT CANAL TO RKM 12.3     14.30  TO   12.30   0.1000     2.00      20      260    279
REACH ID     10   BF  FOLSE: RKM 12.30 TO RKM 10.20        12.30  TO   10.20   0.1000     2.10      21      280    300
REACH ID     11   BF  FOLSE: RKM 10.20 TO RKM 7.40         10.20  TO    7.40   0.2000     2.80      14      301    314
REACH ID     12   BF  FOLSE: RKM 7.40 TO RACELAND C.        7.40  TO    4.70   0.1500     2.70      18      315    332
REACH ID     13   BF  FOLSE: RACELAND C. TO RKM 2.32        4.70  TO    2.32   0.1190     2.38      20      333    352
REACH ID     14   BF  FOLSE: RKM 2.32 TO COMPANY CANAL      2.32  TO    0.00   0.1160     2.32      20      353    372
ENDATA08

$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$
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```
CARD TYPE  REACH  ID       WIDTH       WIDTH       WIDTH       DEPTH       DEPTH       DEPTH      SLOPE    MANNINGS
                            "A"         "B"         "C"         "D"         "E"         "F"                  "N"

 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  1
HYDR-1        1   BC       0.806       1.000       9.520       0.143       1.000       0.500     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  2
HYDR-1        2   BC       0.942       1.000      14.260       0.070       1.000       0.960     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  3
HYDR-1        3   BC       0.400       1.000      20.310       0.050       1.000       1.180     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  4
HYDR-1        4   BC       0.400       1.000      20.310       0.050       1.000       1.180     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  5
HYDR-1        5   BC       0.762       1.000      24.380       0.039       1.000       1.280     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  6
HYDR-1        6   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  7
HYDR-1        7   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  8
HYDR-1        8   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  9
HYDR-1        9   BF       0.067       1.000      26.140       0.025       1.000       1.520     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 10
HYDR-1       10   BF       0.067       1.000      26.140       0.025       1.000       1.520     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 11
HYDR-1       11   BF       0.333       1.000      40.800       0.021       1.000       1.570     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 12
HYDR-1       12   BF       0.333       1.000      40.800       0.021       1.000       1.570     0.00000   0.050
HYDR-1       13   BF       0.000       0.000      37.800       0.000       0.000       1.060     0.00000   0.050
HYDR-1       14   BF       0.000       0.000      37.800       0.000       0.000       1.060     0.00000   0.050
ENDATA09

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

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                         RANGE        "A"            "B"            "C"            "D"

HYDR          1   BC      0.66       36.000         0.833          0.000          1.000
HYDR          2   BC      0.67       36.000         0.833          0.000          1.000
HYDR          3   BC      0.68       36.000         0.833          0.000          1.000
HYDR          4   BC      0.70       36.000         0.833          0.000          1.000
HYDR          5   BC      0.72       36.000         0.833          0.000          1.000
HYDR          6   BC      0.74       36.000         0.833          0.000          1.000
HYDR          7   BC      0.77       36.000         0.833          0.000          1.000
HYDR          8   BC      0.80       36.000         0.833          0.000          1.000
HYDR          9   BF      0.82       36.000         0.833          0.000          1.000
HYDR         10   BF      0.84       36.000         0.833          0.000          1.000
HYDR         11   BF      0.87       36.000         0.833          0.000          1.000
HYDR         12   BF      0.91       36.000         0.833          0.000          1.000
HYDR         13   BF      0.95       36.000         0.833          0.000          1.000
HYDR         14   BF      0.98       36.000         0.833          0.000          1.000
ENDATA10

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

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

INITIAL            1   BC       30.90     40.22      5.00      0.00      0.00      0.00      2.00      0.00
INITIAL            2   BC       30.90     40.09      5.00      0.00      0.00      0.00      2.00      0.00
```

```
INITIAL          3   BC       30.90     40.07      5.00      0.00      0.00      0.00      2.00      0.00
INITIAL          4   BC       30.90     40.07      5.00      0.00      0.00      0.00      3.20      0.00
INITIAL          5   BC       30.90     40.12      5.00      0.00      0.00      0.00      3.50      0.00
INITIAL          6   BC       30.90     40.12      5.00      0.00      0.00      0.00      4.00      0.00
INITIAL          7   BC       30.90     40.12      5.00      0.00      0.00      0.00      5.00      0.00
INITIAL          8   BC       30.90     40.09      5.00      0.00      0.00      0.00     12.00      0.00
INITIAL          9   BF       30.90     40.09      5.00      0.00      0.00      0.00     19.20      0.00
INITIAL         10   BF       30.90     40.09      5.00      0.00      0.00      0.00     19.50      0.00
INITIAL         11   BF       30.90     40.09      5.00      0.00      0.00      0.00     19.50      0.00
INITIAL         12   BF       30.90     40.09      5.00      0.00      0.00      0.00     20.00      0.00
INITIAL         13   BF       30.90     40.10      5.00      0.00      0.00      0.00     21.00      0.00
INITIAL         14   BF       30.90     40.10      5.00      0.00      0.00      0.00     21.00      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   BC  11 TEXAS            0.000     0.000     0.000     0.250     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     2   BC  11 TEXAS            0.000     0.000     0.000     0.250     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     3   BC  11 TEXAS            0.000     0.000     0.000     0.125     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     4   BC  11 TEXAS            0.000     0.000     0.000     0.313     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     5   BC  11 TEXAS            0.000     0.000     0.000     0.500     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     6   BC  11 TEXAS            0.000     0.000     0.000     0.738     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     7   BC  11 TEXAS            0.000     0.000     0.000     0.738     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     8   BC  11 TEXAS            0.000     0.000     0.000     0.738     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     9   BF  11 TEXAS            0.000     0.000     0.000     0.738     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    10   BF  11 TEXAS            0.000     0.000     0.000     0.688     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    11   BF  11 TEXAS            0.000     0.000     0.000     0.250     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    12   BF  11 TEXAS            0.000     0.000     0.000     0.250     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    13   BF  11 TEXAS            0.000     0.000     0.000     0.738     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    14   BF  11 TEXAS            0.000     0.000     0.000     0.738     0.118     0.200     1.000     0.000     0.031     0.200     1.000     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   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           2   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           3   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           4   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           5   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           6   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           7   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           8   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           9   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          10   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          11   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          12   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          13   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          14   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
ENDATA13

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

ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

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   BC        1.42      0.00      0.00      0.00      0.00      1.18
NONPOINT           2   BC        1.06      0.00      0.00      0.00      0.00      0.42
NONPOINT           3   BC        0.47      0.50      0.00      0.00      0.00      0.25
NONPOINT           4   BC        1.78      0.45      0.00      0.00      0.00      2.14
NONPOINT           5   BC        2.85      0.07      0.00      0.00      0.00      2.13
NONPOINT           6   BC        1.52      0.38      0.00      0.00      0.00      0.13
NONPOINT           7   BC        1.88      0.38      0.00      0.00      0.00      0.44
NONPOINT           8   BC        1.14      0.89      0.00      0.00      0.00      0.38
NONPOINT           9   BF        2.67      0.81      0.00      0.00      0.00      0.24
NONPOINT          10   BF        3.00      0.75      0.00      0.00      0.00      2.10
NONPOINT          11   BF        5.10      1.66      0.00      0.00      0.00      2.55
NONPOINT          12   BF        4.10      1.60      0.00      0.00      0.00      1.64
NONPOINT          13   BF        1.99      0.28      0.00      0.00      0.00      0.66
NONPOINT          14   BF        1.94      0.28      0.00      0.00      0.00      0.66
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     uS/cm      MG/L

HDWTR-1           1     BAYOU CUTOFF            0   0.34330   12.122   30.94     0.22   200.000     8.000   0.00
ENDATA20
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$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

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 CUTOFF                6.69      0.74      0.30      0.00      0.00      0.53
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

HDWTR-3           1     BAYOU CUTOFF                 0.00      0.00      0.00      0.00
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

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     uS/cm      MG/L

WSTLD-1       30      32.04  LAFOURCHE SD#1         0.00986    0.34816    0.225   30.00     0.00     0.000     0.000
WSTLD-1       50      31.24  DUGAS DITCH            0.00850    0.30014    0.194   30.00     0.00     0.000     0.000
WSTLD-1       63      30.46  GRAND MARNIER          0.00463    0.16349    0.106   30.00     0.00     0.000     0.000
WSTLD-1       93      28.66  ARPENT CANAL           0.00283    0.09993    0.065   30.94     0.00     0.000     0.000
WSTLD-1      109      27.38  THOROUGHBRED           0.00275    0.09710    0.063   30.00     0.00     0.000     0.000
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          30     LAFOURCHE SD#1              2.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          50     DUGAS DITCH                 2.00     33.10      0.00     61.80      0.00      0.00      0.00      0.00
WSTLD-2          63     GRAND MARNIER               2.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          93     ARPENT CANAL                5.00      0.25      0.00      0.06      0.00      0.00      0.00      0.10
WSTLD-2         109     THOROUGHBRED                2.00     23.00      0.00     43.00      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

WSTLD-3          30     LAFOURCHE SD#1               0.00      0.00      0.00      0.00
WSTLD-3          50     DUGAS DITCH                  0.00      0.00      0.00      0.00
WSTLD-3          63     GRAND MARNIER                0.00      0.00      0.00      0.00
WSTLD-3          93     ARPENT CANAL                 0.00      0.00      0.00      0.00
WSTLD-3         109     THOROUGHBRED                 0.00      0.00      0.00      0.00
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ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     30.940     deg C
LOWER BC     SALINITY                          =      0.100     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =    218.000     uS/cm
LOWER BC     CONSERVATIVE MATERIAL II          =     16.900     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      5.000     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =      7.540     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND    =      3.960     mg/L
LOWER BC     NBOD                              =      1.760     mg/L
LOWER BC     CHLOROPHYLL A                     =     21.000     µg/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

ENDATA29

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


NUMBER OF PLOTS =  1
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
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   5 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11


FINAL REPORT    BAYOU CUTOFF                                    WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO.  1    CUTOFF: THIBODAUX TO DUGAS DITCH                WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

 ******************************************************** REACH INPUTS ********************************************************
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ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
1	HDWTR	0.34330	30.94	0.22	200.00	8.00	6.69	0.74	0.53	0.74	0.53	0.30	0.00	0.00	0.00	2.00	0.00	0.00
30	WSTLD	0.00986	30.00	0.00	0.00	0.00	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
1	33.20	33.16	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	10.97	0.000	1.394	0.064
2	33.16	33.12	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	21.94	0.000	1.394	0.064
3	33.12	33.08	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	32.90	0.000	1.394	0.064
4	33.08	33.04	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	43.87	0.000	1.394	0.064
5	33.04	33.00	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	54.84	0.000	1.394	0.064
6	33.00	32.96	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	65.81	0.000	1.394	0.064
7	32.96	32.92	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	76.77	0.000	1.394	0.064
8	32.92	32.88	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	87.74	0.000	1.394	0.064
9	32.88	32.84	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	98.71	0.000	1.394	0.064
10	32.84	32.80	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	109.68	0.000	1.394	0.064
11	32.80	32.76	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	120.64	0.000	1.394	0.064
12	32.76	32.72	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	131.61	0.001	1.394	0.064
13	32.72	32.68	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	142.58	0.001	1.394	0.064
14	32.68	32.64	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	153.55	0.001	1.394	0.064
15	32.64	32.60	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	164.52	0.001	1.394	0.064
16	32.60	32.56	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	175.48	0.001	1.394	0.064
17	32.56	32.52	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	186.45	0.001	1.394	0.064
18	32.52	32.48	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	197.42	0.001	1.394	0.064
19	32.48	32.44	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	208.39	0.001	1.394	0.064
20	32.44	32.40	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	219.35	0.001	1.394	0.064
21	32.40	32.36	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	230.32	0.001	1.394	0.064
22	32.36	32.32	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	241.29	0.001	1.394	0.064
23	32.32	32.28	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	252.26	0.001	1.394	0.064
24	32.28	32.24	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	263.22	0.001	1.394	0.064
25	32.24	32.20	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	274.19	0.001	1.394	0.064
26	32.20	32.16	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	285.16	0.001	1.394	0.064
27	32.16	32.12	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	296.13	0.001	1.394	0.064
28	32.12	32.08	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	307.10	0.001	1.394	0.064
29	32.08	32.04	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	318.06	0.001	1.394	0.064
30	32.04	32.00	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	329.04	0.001	1.433	0.065
31	32.00	31.96	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	340.02	0.001	1.433	0.065
32	31.96	31.92	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	350.99	0.001	1.433	0.065
33	31.92	31.88	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	361.97	0.001	1.433	0.065
34	31.88	31.84	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	372.95	0.001	1.433	0.065
35	31.84	31.80	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	383.92	0.002	1.433	0.065
36	31.80	31.76	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	394.90	0.002	1.433	0.065
37	31.76	31.72	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	405.88	0.002	1.433	0.065
38	31.72	31.68	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	416.85	0.002	1.433	0.065
39	31.68	31.64	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	427.83	0.002	1.433	0.065
40	31.64	31.60	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	438.80	0.002	1.433	0.065
41	31.60	31.56	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	449.78	0.002	1.433	0.065
42	31.56	31.52	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	460.76	0.002	1.433	0.065
43	31.52	31.48	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	471.73	0.002	1.433	0.065
44	31.48	31.44	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	482.71	0.002	1.433	0.065
45	31.44	31.40	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	493.69	0.002	1.433	0.065

46	31.40	31.36	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	504.66	0.002	1.433	0.065
47	31.36	31.32	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	515.64	0.002	1.433	0.065
48	31.32	31.28	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	526.62	0.002	1.433	0.065
49	31.28	31.24	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	537.59	0.002	1.433	0.065
TOT						0.35			10557.96	19207.89					
AVG					0.0645		0.55	9.80			5.39				
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
1	33.160	5.97	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
2	33.120	5.97	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
3	33.080	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
4	33.040	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
5	33.000	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
6	32.960	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
7	32.920	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
8	32.880	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
9	32.840	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
10	32.800	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
11	32.760	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
12	32.720	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
13	32.680	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
14	32.640	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
15	32.600	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
16	32.560	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
17	32.520	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
18	32.480	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
19	32.440	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
20	32.400	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
21	32.360	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
22	32.320	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
23	32.280	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
24	32.240	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
25	32.200	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
26	32.160	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
27	32.120	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
28	32.080	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
29	32.040	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.70	0.70	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
30	32.000	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.76	0.76	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
31	31.960	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.76	0.76	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
32	31.920	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.76	0.76	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
33	31.880	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
34	31.840	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
35	31.800	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
36	31.760	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
37	31.720	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
38	31.680	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
39	31.640	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
40	31.600	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
41	31.560	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
42	31.520	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00

43	31.480	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
44	31.440	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
45	31.400	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
46	31.360	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
47	31.320	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
48	31.280	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.76	0.76	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
49	31.240	5.98	1.87	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.78	0.78	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.55	0.12	0.20	0.00	0.03	0.20	0.00	0.25			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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	33.160	30.90	40.22	200.00	8.00	6.66	0.74	0.53	0.74	0.53	0.30	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
2	33.120	30.90	40.21	200.00	8.00	6.64	0.74	0.53	0.74	0.53	0.30	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
3	33.080	30.90	40.21	200.00	8.00	6.62	0.73	0.53	0.73	0.53	0.30	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
4	33.040	30.90	40.21	200.00	8.00	6.61	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
5	33.000	30.90	40.21	200.00	8.00	6.59	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
6	32.960	30.90	40.20	200.00	8.00	6.57	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
7	32.920	30.90	40.20	200.00	8.00	6.56	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
8	32.880	30.90	40.20	200.00	8.00	6.54	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
9	32.840	30.90	40.20	200.00	8.00	6.52	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
10	32.800	30.90	40.19	200.00	8.00	6.51	0.72	0.53	0.72	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
11	32.760	30.90	40.19	200.00	8.00	6.49	0.72	0.53	0.72	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
12	32.720	30.90	40.19	200.00	8.00	6.47	0.72	0.53	0.72	0.53	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
13	32.680	30.90	40.19	200.00	8.00	6.46	0.72	0.52	0.72	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
14	32.640	30.90	40.18	200.00	8.00	6.44	0.72	0.52	0.72	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
15	32.600	30.90	40.18	200.00	8.00	6.43	0.72	0.52	0.72	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
16	32.560	30.90	40.18	200.00	8.00	6.41	0.72	0.52	0.72	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
17	32.520	30.90	40.17	200.00	8.00	6.40	0.72	0.52	0.72	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
18	32.480	30.90	40.17	200.00	8.00	6.38	0.71	0.52	0.71	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
19	32.440	30.90	40.17	200.00	8.00	6.37	0.71	0.52	0.71	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
20	32.400	30.90	40.17	200.00	8.00	6.35	0.71	0.52	0.71	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
21	32.360	30.90	40.16	200.00	8.00	6.34	0.71	0.52	0.71	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
22	32.320	30.90	40.16	200.00	8.00	6.33	0.71	0.52	0.71	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
23	32.280	30.90	40.16	200.00	8.00	6.31	0.71	0.52	0.71	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
24	32.240	30.90	40.16	199.99	8.00	6.30	0.71	0.52	0.71	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
25	32.200	30.90	40.15	199.97	8.00	6.28	0.71	0.52	0.71	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
26	32.160	30.90	40.15	199.91	8.00	6.27	0.71	0.52	0.71	0.52	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
27	32.120	30.90	40.15	199.75	7.99	6.25	0.73	0.52	0.73	0.52	0.32	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
28	32.080	30.90	40.15	199.30	7.97	6.23	0.78	0.52	0.78	0.52	0.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
29	32.040	30.90	40.14	198.01	7.92	6.19	0.92	0.51	0.92	0.51	0.68	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
30	32.000	30.90	40.14	194.42	7.78	6.10	1.32	0.50	1.32	0.50	1.45	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
31	31.960	30.90	40.14	194.42	7.78	6.09	1.31	0.50	1.31	0.50	1.44	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
32	31.920	30.90	40.14	194.42	7.78	6.07	1.31	0.50	1.31	0.50	1.43	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
33	31.880	30.90	40.13	194.42	7.78	6.06	1.31	0.50	1.31	0.50	1.43	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
34	31.840	30.90	40.13	194.42	7.78	6.05	1.30	0.50	1.30	0.50	1.42	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
35	31.800	30.90	40.13	194.42	7.78	6.03	1.30	0.50	1.30	0.50	1.42	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
36	31.760	30.90	40.12	194.42	7.78	6.02	1.30	0.50	1.30	0.50	1.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
37	31.720	30.90	40.12	194.42	7.78	6.01	1.29	0.50	1.29	0.50	1.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
38	31.680	30.90	40.12	194.42	7.78	5.99	1.29	0.50	1.29	0.50	1.40	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
39	31.640	30.90	40.12	194.42	7.78	5.98	1.29	0.50	1.29	0.50	1.39	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
40	31.600	30.90	40.11	194.42	7.78	5.97	1.28	0.50	1.28	0.50	1.39	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

41	31.560	30.90	40.11	194.42	7.78	5.96	1.28	0.50	1.28	0.50	1.38	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
42	31.520	30.90	40.11	194.42	7.78	5.95	1.28	0.50	1.28	0.50	1.38	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
43	31.480	30.90	40.11	194.41	7.78	5.93	1.28	0.50	1.28	0.50	1.37	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
44	31.440	30.90	40.10	194.41	7.78	5.92	1.27	0.50	1.27	0.50	1.37	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
45	31.400	30.90	40.10	194.39	7.78	5.91	1.27	0.50	1.27	0.50	1.37	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
46	31.360	30.90	40.10	194.34	7.77	5.90	1.28	0.50	1.28	0.50	1.38	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
47	31.320	30.90	40.10	194.20	7.77	5.88	1.30	0.50	1.30	0.50	1.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
48	31.280	30.90	40.09	193.80	7.75	5.86	1.35	0.50	1.35	0.50	1.52	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
49	31.240	30.90	40.09	192.68	7.71	5.81	1.53	0.49	1.53	0.49	1.85	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 2 CUTOFF: DUGAS DITCH TO ARPENT C WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
50	UPR RCH	0.35316	30.90	40.09	192.68	7.71	5.81	1.53	0.49	1.53	0.49	1.85	0.00	0.00	0.00	2.00	0.00	0.00
50	WSTLD	0.00850	30.00	0.00	0.00	0.00	2.00	33.10	0.00	33.10	0.00	61.80	0.00	0.00	0.00	0.00	0.00	0.00
63	WSTLD	0.00463	30.00	0.00	0.00	0.00	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 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
50	31.24	31.18	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	562.60	0.001	0.894	0.025
51	31.18	31.12	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	587.60	0.001	0.894	0.025
52	31.12	31.06	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	612.61	0.001	0.894	0.025
53	31.06	31.00	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	637.61	0.001	0.894	0.025
54	31.00	30.94	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	662.61	0.001	0.894	0.025
55	30.94	30.88	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	687.62	0.001	0.894	0.025
56	30.88	30.82	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	712.62	0.001	0.894	0.025
57	30.82	30.76	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	737.63	0.001	0.894	0.025
58	30.76	30.70	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	762.63	0.001	0.894	0.025
59	30.70	30.64	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	787.63	0.001	0.894	0.025
60	30.64	30.58	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	812.64	0.001	0.894	0.025
61	30.58	30.52	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	837.64	0.001	0.894	0.025
62	30.52	30.46	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	862.65	0.001	0.894	0.025
63	30.46	30.40	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	887.66	0.001	0.905	0.025
64	30.40	30.34	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	912.67	0.001	0.905	0.025
65	30.34	30.28	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	937.68	0.001	0.905	0.025
66	30.28	30.22	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	962.69	0.001	0.905	0.025
67	30.22	30.16	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	987.70	0.001	0.905	0.025
68	30.16	30.10	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1012.71	0.002	0.905	0.025
69	30.10	30.04	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1037.73	0.002	0.905	0.025
70	30.04	29.98	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1062.74	0.002	0.905	0.025
71	29.98	29.92	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1087.75	0.002	0.905	0.025
72	29.92	29.86	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1112.76	0.002	0.905	0.025
73	29.86	29.80	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1137.77	0.002	0.905	0.025
74	29.80	29.74	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1162.78	0.002	0.905	0.025
75	29.74	29.68	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1187.79	0.002	0.905	0.025
76	29.68	29.62	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1212.81	0.002	0.905	0.025

77	29.62	29.56	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1237.82	0.002	0.905	0.025
78	29.56	29.50	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1262.83	0.002	0.905	0.025
79	29.50	29.44	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1287.84	0.002	0.905	0.025
80	29.44	29.38	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1312.85	0.002	0.905	0.025
81	29.38	29.32	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1337.86	0.002	0.905	0.025
82	29.32	29.26	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1362.87	0.002	0.905	0.025
83	29.26	29.20	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1387.89	0.002	0.905	0.025
84	29.20	29.14	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1412.90	0.002	0.905	0.025
85	29.14	29.08	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1437.91	0.002	0.905	0.025
86	29.08	29.02	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1462.92	0.002	0.905	0.025
87	29.02	28.96	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1487.93	0.002	0.905	0.025
88	28.96	28.90	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1512.94	0.002	0.905	0.025
89	28.90	28.84	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1537.95	0.002	0.905	0.025
90	28.84	28.78	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1562.97	0.002	0.905	0.025
91	28.78	28.72	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1587.98	0.002	0.905	0.025
92	28.72	28.66	0.36629	6.3	0.02545	0.03	0.99	14.61	863.72	876.30	14.40	1612.99	0.002	0.905	0.025
TOT						1.18			37132.87	37677.62					
AVG					0.0254		0.99	14.60			14.39				
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
50	31.180	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.12	1.12	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
51	31.120	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.11	1.11	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
52	31.060	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.11	1.11	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
53	31.000	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.10	1.10	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
54	30.940	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.09	1.09	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
55	30.880	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.09	1.09	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
56	30.820	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.08	1.08	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
57	30.760	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
58	30.700	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
59	30.640	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.06	1.06	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
60	30.580	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.06	1.06	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
61	30.520	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.06	1.06	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
62	30.460	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
63	30.400	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.10	1.10	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
64	30.340	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.10	1.10	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
65	30.280	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.09	1.09	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
66	30.220	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.08	1.08	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
67	30.160	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.08	1.08	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
68	30.100	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
69	30.040	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.06	1.06	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
70	29.980	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.06	1.06	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
71	29.920	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.05	1.05	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
72	29.860	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.05	1.05	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
73	29.800	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.04	1.04	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
74	29.740	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.03	1.03	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
75	29.680	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.03	1.03	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
76	29.620	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.02	1.02	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
77	29.560	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.02	1.02	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
78	29.500	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.01	1.01	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
79	29.440	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.01	1.01	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00

80	29.380	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	1.00	1.00	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
81	29.320	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.99	0.99	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
82	29.260	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.99	0.99	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
83	29.200	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.98	0.98	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
84	29.140	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.98	0.98	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
85	29.080	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.97	0.97	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
86	29.020	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.97	0.97	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
87	28.960	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.96	0.96	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
88	28.900	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.96	0.96	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
89	28.840	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.95	0.95	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
90	28.780	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.95	0.95	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
91	28.720	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.94	0.94	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
92	28.660	5.98	0.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.93	0.93	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.71	0.12	0.20	0.00	0.03	0.20	0.00	0.25			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
50	31.180	30.90	40.09	189.85	7.59	5.71	1.97	0.48	1.97	0.48	2.69	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
51	31.120	30.90	40.09	189.85	7.59	5.67	1.94	0.48	1.94	0.48	2.65	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
52	31.060	30.90	40.09	189.85	7.59	5.62	1.92	0.47	1.92	0.47	2.61	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
53	31.000	30.90	40.09	189.85	7.59	5.58	1.90	0.47	1.90	0.47	2.56	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
54	30.940	30.90	40.09	189.85	7.59	5.54	1.88	0.47	1.88	0.47	2.52	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
55	30.880	30.90	40.09	189.85	7.59	5.50	1.85	0.46	1.85	0.46	2.48	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
56	30.820	30.90	40.09	189.85	7.59	5.47	1.83	0.46	1.83	0.46	2.45	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
57	30.760	30.90	40.09	189.84	7.59	5.43	1.81	0.46	1.81	0.46	2.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
58	30.700	30.90	40.09	189.83	7.59	5.40	1.79	0.45	1.79	0.45	2.37	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
59	30.640	30.90	40.09	189.80	7.59	5.37	1.77	0.45	1.77	0.45	2.34	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
60	30.580	30.90	40.08	189.72	7.59	5.33	1.76	0.44	1.76	0.44	2.32	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
61	30.520	30.90	40.08	189.51	7.58	5.30	1.76	0.44	1.76	0.44	2.33	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
62	30.460	30.90	40.08	188.95	7.56	5.26	1.80	0.44	1.80	0.44	2.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
63	30.400	30.90	40.08	187.45	7.50	5.20	1.95	0.43	1.95	0.43	2.69	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
64	30.340	30.90	40.08	187.45	7.50	5.17	1.92	0.43	1.92	0.43	2.65	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
65	30.280	30.90	40.08	187.45	7.50	5.14	1.90	0.42	1.90	0.42	2.61	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
66	30.220	30.90	40.08	187.45	7.50	5.11	1.88	0.42	1.88	0.42	2.57	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
67	30.160	30.90	40.08	187.45	7.50	5.08	1.86	0.42	1.86	0.42	2.53	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
68	30.100	30.90	40.08	187.45	7.50	5.05	1.84	0.41	1.84	0.41	2.49	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
69	30.040	30.90	40.08	187.45	7.50	5.03	1.81	0.41	1.81	0.41	2.45	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
70	29.980	30.90	40.08	187.45	7.50	5.01	1.79	0.41	1.79	0.41	2.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
71	29.920	30.90	40.08	187.45	7.50	4.98	1.77	0.40	1.77	0.40	2.37	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
72	29.860	30.90	40.08	187.45	7.50	4.96	1.75	0.40	1.75	0.40	2.34	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
73	29.800	30.90	40.08	187.45	7.50	4.94	1.73	0.40	1.73	0.40	2.30	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
74	29.740	30.90	40.08	187.45	7.50	4.92	1.71	0.39	1.71	0.39	2.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
75	29.680	30.90	40.08	187.45	7.50	4.90	1.69	0.39	1.69	0.39	2.23	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
76	29.620	30.90	40.08	187.45	7.50	4.88	1.67	0.39	1.67	0.39	2.20	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
77	29.560	30.90	40.08	187.45	7.50	4.86	1.65	0.39	1.65	0.39	2.16	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
78	29.500	30.90	40.08	187.45	7.50	4.85	1.63	0.38	1.63	0.38	2.13	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
79	29.440	30.90	40.08	187.45	7.50	4.83	1.61	0.38	1.61	0.38	2.10	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
80	29.380	30.90	40.08	187.45	7.50	4.82	1.59	0.38	1.59	0.38	2.06	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
81	29.320	30.90	40.08	187.45	7.50	4.80	1.57	0.37	1.57	0.37	2.03	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
82	29.260	30.90	40.07	187.45	7.50	4.79	1.56	0.37	1.56	0.37	2.00	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
83	29.200	30.90	40.07	187.45	7.50	4.78	1.54	0.37	1.54	0.37	1.97	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

84	29.140	30.90	40.07	187.45	7.50	4.76	1.52	0.37	1.52	0.37	1.94	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
85	29.080	30.90	40.07	187.45	7.50	4.75	1.50	0.36	1.50	0.36	1.91	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
86	29.020	30.90	40.07	187.45	7.50	4.74	1.49	0.36	1.49	0.36	1.88	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
87	28.960	30.90	40.07	187.44	7.50	4.73	1.47	0.36	1.47	0.36	1.85	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
88	28.900	30.90	40.07	187.44	7.50	4.72	1.45	0.35	1.45	0.35	1.82	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
89	28.840	30.90	40.07	187.42	7.50	4.71	1.43	0.35	1.43	0.35	1.79	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
90	28.780	30.90	40.07	187.38	7.50	4.70	1.42	0.35	1.42	0.35	1.76	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
91	28.720	30.90	40.07	187.25	7.49	4.69	1.40	0.35	1.40	0.35	1.73	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
92	28.660	30.90	40.07	186.93	7.48	4.69	1.37	0.34	1.37	0.34	1.69	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 3 CUTOFF: ARPENT TO THOROUGHBRED WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
93	UPR RCH	0.36629	30.90	40.07	186.93	7.48	4.69	1.37	0.34	1.37	0.34	1.69	0.00	0.00	0.00	2.00	0.00	0.00
93	WSTLD	0.00283	30.94	0.00	0.00	0.00	5.00	0.25	0.10	0.25	0.10	0.06	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
93	28.66	28.58	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	1660.54	0.001	0.630	0.015
94	28.58	28.50	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	1708.09	0.001	0.630	0.015
95	28.50	28.42	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	1755.64	0.002	0.630	0.015
96	28.42	28.34	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	1803.18	0.002	0.630	0.015
97	28.34	28.26	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	1850.73	0.002	0.630	0.015
98	28.26	28.18	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	1898.28	0.002	0.630	0.015
99	28.18	28.10	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	1945.83	0.002	0.630	0.015
100	28.10	28.02	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	1993.38	0.002	0.630	0.015
101	28.02	27.94	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	2040.93	0.002	0.630	0.015
102	27.94	27.86	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	2088.48	0.002	0.630	0.015
103	27.86	27.78	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	2136.03	0.002	0.630	0.015
104	27.78	27.70	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	2183.58	0.002	0.630	0.015
105	27.70	27.62	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	2231.12	0.002	0.630	0.015
TOT						0.80			25498.29	21275.95					
AVG					0.0151		1.20	20.46			24.52				
CUM						2.33									

********** 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
93	28.580	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.77	0.77	0.19	0.39	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
94	28.500	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.75	0.75	0.19	0.39	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
95	28.420	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.74	0.74	0.19	0.39	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00

96	28.340	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.73	0.73	0.19	0.39	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
97	28.260	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.72	0.72	0.19	0.39	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
98	28.180	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.71	0.71	0.19	0.39	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
99	28.100	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.70	0.70	0.19	0.39	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
100	28.020	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.68	0.68	0.19	0.39	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
101	27.940	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.67	0.67	0.19	0.39	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
102	27.860	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.66	0.66	0.19	0.39	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
103	27.780	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.65	0.65	0.19	0.39	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
104	27.700	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.65	0.65	0.19	0.39	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
105	27.620	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.64	0.64	0.19	0.39	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.58	0.12	0.20	0.00	0.03	0.20	0.00	0.12			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
93	28.580	30.90	40.07	186.01	7.44	4.68	1.33	0.34	1.33	0.34	1.63	0.00	0.00	0.00	0.00	2.09	0.00	0.	0.00
94	28.500	30.90	40.07	186.01	7.44	4.68	1.30	0.33	1.30	0.33	1.58	0.00	0.00	0.00	0.00	2.18	0.00	0.	0.00
95	28.420	30.90	40.07	186.01	7.44	4.67	1.26	0.32	1.26	0.32	1.53	0.00	0.00	0.00	0.00	2.28	0.00	0.	0.00
96	28.340	30.90	40.07	186.01	7.44	4.67	1.23	0.32	1.23	0.32	1.48	0.00	0.00	0.00	0.00	2.37	0.00	0.	0.00
97	28.260	30.90	40.07	186.01	7.44	4.67	1.20	0.31	1.20	0.31	1.43	0.00	0.00	0.00	0.00	2.46	0.00	0.	0.00
98	28.180	30.90	40.07	186.01	7.44	4.68	1.17	0.31	1.17	0.31	1.38	0.00	0.00	0.00	0.00	2.55	0.00	0.	0.00
99	28.100	30.90	40.07	186.01	7.44	4.68	1.14	0.30	1.14	0.30	1.33	0.00	0.00	0.00	0.00	2.65	0.00	0.	0.00
100	28.020	30.90	40.07	186.01	7.44	4.69	1.11	0.30	1.11	0.30	1.29	0.00	0.00	0.00	0.00	2.74	0.00	0.	0.00
101	27.940	30.90	40.07	186.01	7.44	4.69	1.08	0.29	1.08	0.29	1.25	0.00	0.00	0.00	0.00	2.83	0.00	0.	0.00
102	27.860	30.90	40.07	186.01	7.44	4.70	1.05	0.29	1.05	0.29	1.21	0.00	0.00	0.00	0.00	2.92	0.00	0.	0.00
103	27.780	30.90	40.07	186.01	7.44	4.71	1.02	0.28	1.02	0.28	1.17	0.00	0.00	0.00	0.00	3.02	0.00	0.	0.00
104	27.700	30.90	40.07	186.00	7.44	4.72	1.00	0.28	1.00	0.28	1.13	0.00	0.00	0.00	0.00	3.11	0.00	0.	0.00
105	27.620	30.90	40.07	185.99	7.44	4.73	0.97	0.27	0.97	0.27	1.10	0.00	0.00	0.00	0.00	3.20	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 4 CUTOFF:THOROUGHBRED TO RKM 24.66 WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
106	UPR RCH	0.36912	30.90	40.07	185.99	7.44	4.73	0.97	0.27	0.97	0.27	1.10	0.00	0.00	0.00	3.20	0.00	0.00
109	WSTLD	0.00275	30.00	0.00	0.00	0.00	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
106	27.62	27.54	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	2279.72	0.002	0.630	0.015
107	27.54	27.46	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	2328.31	0.002	0.630	0.015
108	27.46	27.38	0.36912	7.0	0.01506	0.06	1.20	20.46	1961.41	1636.61	24.52	2376.91	0.002	0.630	0.015

109	27.38	27.30	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	2425.51	0.002	0.635	0.015
110	27.30	27.22	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	2474.10	0.002	0.635	0.015
111	27.22	27.14	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	2522.70	0.002	0.635	0.015
112	27.14	27.06	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	2571.30	0.002	0.635	0.015
113	27.06	26.98	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	2619.89	0.002	0.635	0.015
114	26.98	26.90	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	2668.49	0.002	0.635	0.015
115	26.90	26.82	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	2717.09	0.002	0.635	0.015
116	26.82	26.74	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	2765.69	0.002	0.635	0.015
117	26.74	26.66	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	2814.28	0.002	0.635	0.015
118	26.66	26.58	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	2862.88	0.002	0.635	0.015
119	26.58	26.50	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	2911.48	0.003	0.635	0.015
120	26.50	26.42	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	2960.07	0.003	0.635	0.015
121	26.42	26.34	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3008.67	0.003	0.635	0.015
122	26.34	26.26	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3057.27	0.003	0.635	0.015
123	26.26	26.18	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3105.87	0.003	0.635	0.015
124	26.18	26.10	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3154.46	0.003	0.635	0.015
125	26.10	26.02	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3203.06	0.003	0.635	0.015
126	26.02	25.94	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3251.66	0.003	0.635	0.015
127	25.94	25.86	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3300.25	0.003	0.635	0.015
128	25.86	25.78	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3348.85	0.003	0.635	0.015
129	25.78	25.70	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3397.45	0.003	0.635	0.015
130	25.70	25.62	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3446.05	0.003	0.635	0.015
131	25.62	25.54	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3494.64	0.003	0.635	0.015
132	25.54	25.46	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3543.24	0.003	0.635	0.015
133	25.46	25.38	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3591.84	0.003	0.635	0.015
134	25.38	25.30	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3640.43	0.003	0.635	0.015
135	25.30	25.22	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3689.03	0.003	0.635	0.015
136	25.22	25.14	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3737.63	0.003	0.635	0.015
137	25.14	25.06	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3786.23	0.003	0.635	0.015
138	25.06	24.98	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3834.82	0.003	0.635	0.015
139	24.98	24.90	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3883.42	0.003	0.635	0.015
140	24.90	24.82	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3932.02	0.003	0.635	0.015
141	24.82	24.74	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	3980.61	0.003	0.635	0.015
142	24.74	24.66	0.37187	7.7	0.01516	0.06	1.20	20.46	1961.74	1636.70	24.52	4029.21	0.004	0.635	0.015
TOT						2.26			72583.30	60557.62					
AVG					0.0152		1.20	20.46			24.52				
CUM						4.59									

********** 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
106	27.540	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	1.00	1.00	0.19	0.39	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
107	27.460	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	1.00	1.00	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
108	27.380	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	1.00	1.00	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
109	27.300	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	1.02	1.02	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
110	27.220	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	1.01	1.01	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
111	27.140	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	1.01	1.01	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
112	27.060	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	1.00	1.00	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
113	26.980	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.99	0.99	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
114	26.900	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.98	0.98	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
115	26.820	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.97	0.97	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
116	26.740	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.96	0.96	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
117	26.660	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.96	0.96	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00

118	26.580	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.95	0.95	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
119	26.500	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.94	0.94	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
120	26.420	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.94	0.94	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
121	26.340	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.93	0.93	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
122	26.260	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.92	0.92	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
123	26.180	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.92	0.92	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
124	26.100	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.91	0.91	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
125	26.020	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.90	0.90	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
126	25.940	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.90	0.90	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
127	25.860	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.89	0.89	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
128	25.780	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.89	0.89	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
129	25.700	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.88	0.88	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
130	25.620	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.88	0.88	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
131	25.540	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.87	0.87	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
132	25.460	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.87	0.87	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
133	25.380	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.86	0.86	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
134	25.300	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.86	0.86	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
135	25.220	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.85	0.85	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
136	25.140	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.85	0.85	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
137	25.060	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.84	0.84	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
138	24.980	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.84	0.84	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
139	24.900	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.83	0.83	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
140	24.820	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.83	0.83	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
141	24.740	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.82	0.82	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
142	24.660	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.82	0.82	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.58	0.12	0.20	0.00	0.03	0.20	0.00	0.31			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
106	27.540	30.90	40.07	185.95	7.44	4.72	0.95	0.27	0.95	0.27	1.07	0.00	0.00	0.00	0.00	3.21	0.00	0.	0.00
107	27.460	30.90	40.07	185.85	7.43	4.72	0.94	0.27	0.94	0.27	1.05	0.00	0.00	0.00	0.00	3.22	0.00	0.	0.00
108	27.380	30.90	40.07	185.54	7.42	4.71	0.95	0.26	0.95	0.26	1.08	0.00	0.00	0.00	0.00	3.22	0.00	0.	0.00
109	27.300	30.90	40.08	184.63	7.39	4.69	1.03	0.26	1.03	0.26	1.24	0.00	0.00	0.00	0.00	3.23	0.00	0.	0.00
110	27.220	30.90	40.08	184.63	7.39	4.68	1.01	0.26	1.01	0.26	1.20	0.00	0.00	0.00	0.00	3.24	0.00	0.	0.00
111	27.140	30.90	40.08	184.63	7.39	4.68	0.98	0.25	0.98	0.25	1.16	0.00	0.00	0.00	0.00	3.25	0.00	0.	0.00
112	27.060	30.90	40.08	184.63	7.39	4.67	0.96	0.25	0.96	0.25	1.12	0.00	0.00	0.00	0.00	3.26	0.00	0.	0.00
113	26.980	30.90	40.08	184.63	7.39	4.67	0.93	0.25	0.93	0.25	1.09	0.00	0.00	0.00	0.00	3.26	0.00	0.	0.00
114	26.900	30.90	40.08	184.63	7.39	4.67	0.91	0.25	0.91	0.25	1.05	0.00	0.00	0.00	0.00	3.27	0.00	0.	0.00
115	26.820	30.90	40.08	184.63	7.39	4.67	0.89	0.24	0.89	0.24	1.02	0.00	0.00	0.00	0.00	3.28	0.00	0.	0.00
116	26.740	30.90	40.08	184.63	7.39	4.67	0.86	0.24	0.86	0.24	0.98	0.00	0.00	0.00	0.00	3.29	0.00	0.	0.00
117	26.660	30.90	40.09	184.63	7.39	4.67	0.84	0.24	0.84	0.24	0.95	0.00	0.00	0.00	0.00	3.30	0.00	0.	0.00
118	26.580	30.90	40.09	184.63	7.39	4.68	0.82	0.23	0.82	0.23	0.92	0.00	0.00	0.00	0.00	3.31	0.00	0.	0.00
119	26.500	30.90	40.09	184.63	7.39	4.68	0.80	0.23	0.80	0.23	0.89	0.00	0.00	0.00	0.00	3.31	0.00	0.	0.00
120	26.420	30.90	40.09	184.63	7.39	4.69	0.78	0.23	0.78	0.23	0.86	0.00	0.00	0.00	0.00	3.32	0.00	0.	0.00
121	26.340	30.90	40.09	184.63	7.39	4.69	0.76	0.23	0.76	0.23	0.83	0.00	0.00	0.00	0.00	3.33	0.00	0.	0.00
122	26.260	30.90	40.09	184.64	7.39	4.70	0.74	0.22	0.74	0.22	0.80	0.00	0.00	0.00	0.00	3.34	0.00	0.	0.00
123	26.180	30.90	40.09	184.64	7.39	4.71	0.73	0.22	0.73	0.22	0.78	0.00	0.00	0.00	0.00	3.35	0.00	0.	0.00
124	26.100	30.90	40.10	184.64	7.39	4.71	0.71	0.22	0.71	0.22	0.75	0.00	0.00	0.00	0.00	3.35	0.00	0.	0.00
125	26.020	30.90	40.10	184.64	7.39	4.72	0.69	0.22	0.69	0.22	0.73	0.00	0.00	0.00	0.00	3.36	0.00	0.	0.00
126	25.940	30.90	40.10	184.64	7.39	4.73	0.67	0.22	0.67	0.22	0.70	0.00	0.00	0.00	0.00	3.37	0.00	0.	0.00
127	25.860	30.90	40.10	184.64	7.39	4.74	0.66	0.21	0.66	0.21	0.68	0.00	0.00	0.00	0.00	3.38	0.00	0.	0.00

128	25.780	30.90	40.10	184.64	7.39	4.75	0.64	0.21	0.64	0.21	0.66	0.00	0.00	0.00	0.00	3.39	0.00	0.	0.00
129	25.700	30.90	40.10	184.64	7.39	4.76	0.63	0.21	0.63	0.21	0.63	0.00	0.00	0.00	0.00	3.39	0.00	0.	0.00
130	25.620	30.90	40.10	184.64	7.39	4.76	0.61	0.21	0.61	0.21	0.61	0.00	0.00	0.00	0.00	3.40	0.00	0.	0.00
131	25.540	30.90	40.11	184.64	7.39	4.77	0.60	0.20	0.60	0.20	0.59	0.00	0.00	0.00	0.00	3.41	0.00	0.	0.00
132	25.460	30.90	40.11	184.64	7.39	4.78	0.58	0.20	0.58	0.20	0.57	0.00	0.00	0.00	0.00	3.42	0.00	0.	0.00
133	25.380	30.90	40.11	184.64	7.39	4.80	0.57	0.20	0.57	0.20	0.56	0.00	0.00	0.00	0.00	3.43	0.00	0.	0.00
134	25.300	30.90	40.11	184.64	7.39	4.81	0.55	0.20	0.55	0.20	0.54	0.00	0.00	0.00	0.00	3.44	0.00	0.	0.00
135	25.220	30.90	40.11	184.64	7.39	4.82	0.54	0.20	0.54	0.20	0.52	0.00	0.00	0.00	0.00	3.44	0.00	0.	0.00
136	25.140	30.90	40.11	184.64	7.39	4.83	0.53	0.19	0.53	0.19	0.50	0.00	0.00	0.00	0.00	3.45	0.00	0.	0.00
137	25.060	30.90	40.11	184.64	7.39	4.84	0.51	0.19	0.51	0.19	0.49	0.00	0.00	0.00	0.00	3.46	0.00	0.	0.00
138	24.980	30.90	40.11	184.64	7.39	4.85	0.50	0.19	0.50	0.19	0.47	0.00	0.00	0.00	0.00	3.47	0.00	0.	0.00
139	24.900	30.90	40.12	184.64	7.39	4.86	0.49	0.19	0.49	0.19	0.45	0.00	0.00	0.00	0.00	3.48	0.00	0.	0.00
140	24.820	30.90	40.12	184.64	7.39	4.87	0.48	0.19	0.48	0.19	0.44	0.00	0.00	0.00	0.00	3.48	0.00	0.	0.00
141	24.740	30.90	40.12	184.64	7.39	4.88	0.47	0.19	0.47	0.19	0.42	0.00	0.00	0.00	0.00	3.49	0.00	0.	0.00
142	24.660	30.90	40.12	184.64	7.39	4.89	0.45	0.18	0.45	0.18	0.41	0.00	0.00	0.00	0.00	3.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 5 CUTOFF: RKM 24.66 TO ST CHAS WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
143	UPR RCH	0.37187	30.90	40.12	184.64	7.39	4.89	0.45	0.18	0.45	0.18	0.41	0.00	0.00	0.00	3.50	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
143	24.66	24.58	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4089.73	0.003	0.520	0.012
144	24.58	24.50	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4150.25	0.003	0.520	0.012
145	24.50	24.42	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4210.77	0.003	0.520	0.012
146	24.42	24.34	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4271.28	0.003	0.520	0.012
147	24.34	24.26	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4331.80	0.003	0.520	0.012
148	24.26	24.18	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4392.32	0.003	0.520	0.012
149	24.18	24.10	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4452.84	0.003	0.520	0.012
150	24.10	24.02	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4513.36	0.003	0.520	0.012
151	24.02	23.94	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4573.87	0.003	0.520	0.012
152	23.94	23.86	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4634.39	0.003	0.520	0.012
153	23.86	23.78	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4694.91	0.003	0.520	0.012
154	23.78	23.70	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4755.43	0.003	0.520	0.012
155	23.70	23.62	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4815.95	0.003	0.520	0.012
156	23.62	23.54	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4876.46	0.003	0.520	0.012
157	23.54	23.46	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4936.98	0.003	0.520	0.012
158	23.46	23.38	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	4997.50	0.003	0.520	0.012
159	23.38	23.30	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5058.02	0.003	0.520	0.012
160	23.30	23.22	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5118.54	0.003	0.520	0.012
161	23.22	23.14	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5179.06	0.003	0.520	0.012
162	23.14	23.06	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5239.57	0.004	0.520	0.012
163	23.06	22.98	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5300.09	0.004	0.520	0.012
164	22.98	22.90	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5360.61	0.004	0.520	0.012
165	22.90	22.82	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5421.13	0.004	0.520	0.012

166	22.82	22.74	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5481.65	0.004	0.520	0.012
167	22.74	22.66	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5542.16	0.004	0.520	0.012
168	22.66	22.58	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5602.68	0.004	0.520	0.012
169	22.58	22.50	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5663.20	0.004	0.520	0.012
170	22.50	22.42	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5723.72	0.004	0.520	0.012
171	22.42	22.34	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5784.24	0.004	0.520	0.012
172	22.34	22.26	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5844.75	0.004	0.520	0.012
173	22.26	22.18	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5905.27	0.004	0.520	0.012
174	22.18	22.10	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	5965.79	0.004	0.520	0.012
175	22.10	22.02	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	6026.31	0.004	0.520	0.012
176	22.02	21.94	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	6086.83	0.004	0.520	0.012
177	21.94	21.86	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	6147.34	0.004	0.520	0.012
178	21.86	21.78	0.37187	7.7	0.01165	0.08	1.29	24.66	2554.14	1973.07	31.93	6207.86	0.004	0.520	0.012
TOT						2.86			91949.16	71030.51					
AVG					0.0116		1.29	24.66			31.93				
CUM						7.45									

********** 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
143	24.580	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.20	1.20	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
144	24.500	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.20	1.20	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
145	24.420	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.19	1.19	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
146	24.340	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.19	1.19	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
147	24.260	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.18	1.18	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
148	24.180	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.18	1.18	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
149	24.100	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.17	1.17	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
150	24.020	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.17	1.17	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
151	23.940	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.17	1.17	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
152	23.860	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.16	1.16	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
153	23.780	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.16	1.16	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
154	23.700	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.15	1.15	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
155	23.620	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.15	1.15	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
156	23.540	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.15	1.15	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
157	23.460	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.14	1.14	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
158	23.380	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.14	1.14	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
159	23.300	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.14	1.14	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
160	23.220	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.13	1.13	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
161	23.140	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.13	1.13	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
162	23.060	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.13	1.13	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
163	22.980	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.13	1.13	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
164	22.900	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.12	1.12	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
165	22.820	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.12	1.12	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
166	22.740	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.12	1.12	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
167	22.660	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.12	1.12	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
168	22.580	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.11	1.11	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
169	22.500	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.11	1.11	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
170	22.420	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.11	1.11	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
171	22.340	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.11	1.11	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
172	22.260	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.10	1.10	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
173	22.180	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.10	1.10	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
174	22.100	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.10	1.10	0.19	0.39	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
175	22.020	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.10	1.10	0.19	0.39	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00

176	21.940	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.10	1.10	0.19	0.39	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
177	21.860	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.10	1.10	0.19	0.39	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
178	21.780	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.09	1.09	0.19	0.39	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.54	0.12	0.20	0.00	0.03	0.20	0.00	0.50			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
143	24.580	30.90	40.12	184.64	7.39	4.88	0.44	0.18	0.44	0.18	0.39	0.00	0.00	0.00	0.00	3.51	0.00	0.	0.00
144	24.500	30.90	40.12	184.64	7.39	4.87	0.43	0.18	0.43	0.18	0.37	0.00	0.00	0.00	0.00	3.53	0.00	0.	0.00
145	24.420	30.90	40.12	184.64	7.39	4.87	0.42	0.18	0.42	0.18	0.36	0.00	0.00	0.00	0.00	3.54	0.00	0.	0.00
146	24.340	30.90	40.12	184.64	7.39	4.86	0.40	0.17	0.40	0.17	0.34	0.00	0.00	0.00	0.00	3.56	0.00	0.	0.00
147	24.260	30.90	40.12	184.64	7.39	4.86	0.39	0.17	0.39	0.17	0.33	0.00	0.00	0.00	0.00	3.57	0.00	0.	0.00
148	24.180	30.90	40.12	184.64	7.39	4.86	0.38	0.17	0.38	0.17	0.31	0.00	0.00	0.00	0.00	3.58	0.00	0.	0.00
149	24.100	30.90	40.12	184.64	7.39	4.86	0.37	0.17	0.37	0.17	0.30	0.00	0.00	0.00	0.00	3.60	0.00	0.	0.00
150	24.020	30.90	40.12	184.64	7.39	4.86	0.36	0.16	0.36	0.16	0.29	0.00	0.00	0.00	0.00	3.61	0.00	0.	0.00
151	23.940	30.90	40.12	184.64	7.39	4.86	0.35	0.16	0.35	0.16	0.28	0.00	0.00	0.00	0.00	3.62	0.00	0.	0.00
152	23.860	30.90	40.12	184.64	7.39	4.86	0.34	0.16	0.34	0.16	0.26	0.00	0.00	0.00	0.00	3.64	0.00	0.	0.00
153	23.780	30.90	40.12	184.64	7.39	4.86	0.33	0.16	0.33	0.16	0.25	0.00	0.00	0.00	0.00	3.65	0.00	0.	0.00
154	23.700	30.90	40.12	184.64	7.39	4.86	0.32	0.16	0.32	0.16	0.24	0.00	0.00	0.00	0.00	3.67	0.00	0.	0.00
155	23.620	30.90	40.12	184.64	7.39	4.86	0.31	0.15	0.31	0.15	0.23	0.00	0.00	0.00	0.00	3.68	0.00	0.	0.00
156	23.540	30.90	40.12	184.64	7.39	4.87	0.31	0.15	0.31	0.15	0.22	0.00	0.00	0.00	0.00	3.69	0.00	0.	0.00
157	23.460	30.90	40.12	184.64	7.39	4.87	0.30	0.15	0.30	0.15	0.21	0.00	0.00	0.00	0.00	3.71	0.00	0.	0.00
158	23.380	30.90	40.12	184.64	7.39	4.87	0.29	0.15	0.29	0.15	0.20	0.00	0.00	0.00	0.00	3.72	0.00	0.	0.00
159	23.300	30.90	40.12	184.64	7.39	4.88	0.28	0.15	0.28	0.15	0.19	0.00	0.00	0.00	0.00	3.74	0.00	0.	0.00
160	23.220	30.90	40.12	184.64	7.39	4.88	0.27	0.15	0.27	0.15	0.19	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.00
161	23.140	30.90	40.12	184.64	7.39	4.89	0.27	0.14	0.27	0.14	0.18	0.00	0.00	0.00	0.00	3.76	0.00	0.	0.00
162	23.060	30.90	40.12	184.64	7.39	4.89	0.26	0.14	0.26	0.14	0.17	0.00	0.00	0.00	0.00	3.78	0.00	0.	0.00
163	22.980	30.90	40.12	184.64	7.39	4.89	0.25	0.14	0.25	0.14	0.16	0.00	0.00	0.00	0.00	3.79	0.00	0.	0.00
164	22.900	30.90	40.12	184.64	7.39	4.90	0.25	0.14	0.25	0.14	0.16	0.00	0.00	0.00	0.00	3.81	0.00	0.	0.00
165	22.820	30.90	40.12	184.64	7.39	4.90	0.24	0.14	0.24	0.14	0.15	0.00	0.00	0.00	0.00	3.82	0.00	0.	0.00
166	22.740	30.90	40.12	184.64	7.39	4.91	0.24	0.14	0.24	0.14	0.14	0.00	0.00	0.00	0.00	3.83	0.00	0.	0.00
167	22.660	30.90	40.12	184.64	7.39	4.92	0.23	0.13	0.23	0.13	0.14	0.00	0.00	0.00	0.00	3.85	0.00	0.	0.00
168	22.580	30.90	40.12	184.64	7.39	4.92	0.22	0.13	0.22	0.13	0.13	0.00	0.00	0.00	0.00	3.86	0.00	0.	0.00
169	22.500	30.90	40.12	184.64	7.39	4.93	0.22	0.13	0.22	0.13	0.13	0.00	0.00	0.00	0.00	3.88	0.00	0.	0.00
170	22.420	30.90	40.12	184.64	7.39	4.93	0.21	0.13	0.21	0.13	0.12	0.00	0.00	0.00	0.00	3.89	0.00	0.	0.00
171	22.340	30.90	40.12	184.64	7.39	4.94	0.21	0.13	0.21	0.13	0.12	0.00	0.00	0.00	0.00	3.90	0.00	0.	0.00
172	22.260	30.90	40.12	184.64	7.39	4.94	0.20	0.13	0.20	0.13	0.11	0.00	0.00	0.00	0.00	3.92	0.00	0.	0.00
173	22.180	30.90	40.12	184.64	7.39	4.95	0.20	0.13	0.20	0.13	0.11	0.00	0.00	0.00	0.00	3.93	0.00	0.	0.00
174	22.100	30.90	40.12	184.64	7.39	4.96	0.20	0.13	0.20	0.13	0.10	0.00	0.00	0.00	0.00	3.94	0.00	0.	0.00
175	22.020	30.90	40.12	184.64	7.39	4.96	0.19	0.12	0.19	0.12	0.10	0.00	0.00	0.00	0.00	3.96	0.00	0.	0.00
176	21.940	30.90	40.12	184.64	7.39	4.97	0.19	0.12	0.19	0.12	0.09	0.00	0.00	0.00	0.00	3.97	0.00	0.	0.00
177	21.860	30.90	40.12	184.64	7.39	4.97	0.18	0.12	0.18	0.12	0.09	0.00	0.00	0.00	0.00	3.99	0.00	0.	0.00
178	21.780	30.90	40.12	184.64	7.39	4.97	0.18	0.12	0.18	0.12	0.08	0.00	0.00	0.00	0.00	4.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 6 CUTOFF: ST CHAS TO RKM 19.28 WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
179	UPR RCH	0.37187	30.90	40.12	184.64	7.39	4.97	0.18	0.12	0.18	0.12	0.08	0.00	0.00	0.00	4.00	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
179	21.78	21.68	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	6285.71	0.004	0.514	0.011
180	21.68	21.58	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	6363.55	0.004	0.514	0.011
181	21.58	21.48	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	6441.39	0.004	0.514	0.011
182	21.48	21.38	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	6519.24	0.004	0.514	0.011
183	21.38	21.28	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	6597.08	0.004	0.514	0.011
184	21.28	21.18	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	6674.92	0.004	0.514	0.011
185	21.18	21.08	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	6752.77	0.004	0.514	0.011
186	21.08	20.98	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	6830.61	0.004	0.514	0.011
187	20.98	20.88	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	6908.46	0.004	0.514	0.011
188	20.88	20.78	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	6986.30	0.004	0.514	0.011
189	20.78	20.68	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	7064.14	0.004	0.514	0.011
190	20.68	20.58	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	7141.99	0.004	0.514	0.011
191	20.58	20.48	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	7219.83	0.004	0.514	0.011
192	20.48	20.38	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	7297.67	0.004	0.514	0.011
193	20.38	20.28	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	7375.52	0.005	0.514	0.011
194	20.28	20.18	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	7453.36	0.005	0.514	0.011
195	20.18	20.08	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	7531.21	0.005	0.514	0.011
196	20.08	19.98	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	7609.05	0.005	0.514	0.011
197	19.98	19.88	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	7686.89	0.005	0.514	0.011
198	19.88	19.78	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	7764.74	0.005	0.514	0.011
199	19.78	19.68	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	7842.58	0.005	0.514	0.011
200	19.68	19.58	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	7920.42	0.005	0.514	0.011
201	19.58	19.48	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	7998.27	0.005	0.514	0.011
202	19.48	19.38	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	8076.11	0.005	0.514	0.011
203	19.38	19.28	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	8153.96	0.005	0.514	0.011
TOT						2.71			87216.09	61401.96					
AVG					0.0107		1.42	24.56			34.89				
CUM						10.17									

********** 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
179	21.680	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.57	1.57	0.19	0.39	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
180	21.580	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.57	1.57	0.19	0.39	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
181	21.480	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.56	1.56	0.19	0.39	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
182	21.380	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.56	1.56	0.19	0.39	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
183	21.280	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.56	1.56	0.19	0.39	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
184	21.180	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.56	1.56	0.19	0.39	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
185	21.080	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.55	1.55	0.19	0.39	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
186	20.980	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.55	1.55	0.19	0.39	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
187	20.880	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.55	1.55	0.19	0.39	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00

188	20.780	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.54	1.54	0.19	0.39	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
189	20.680	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.54	1.54	0.19	0.39	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
190	20.580	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.54	1.54	0.19	0.39	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
191	20.480	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.54	1.54	0.19	0.39	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
192	20.380	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.54	1.54	0.19	0.39	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
193	20.280	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.53	1.53	0.19	0.39	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
194	20.180	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.53	1.53	0.19	0.39	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
195	20.080	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.53	1.53	0.19	0.39	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
196	19.980	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.53	1.53	0.19	0.39	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
197	19.880	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.53	1.53	0.19	0.39	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
198	19.780	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
199	19.680	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
200	19.580	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
201	19.480	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
202	19.380	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
203	19.280	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.49	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
179	21.680	30.90	40.12	184.64	7.39	4.94	0.17	0.12	0.17	0.12	0.08	0.00	0.00	0.00	0.00	4.04	0.00	0.	0.00
180	21.580	30.90	40.12	184.64	7.39	4.92	0.17	0.11	0.17	0.11	0.08	0.00	0.00	0.00	0.00	4.08	0.00	0.	0.00
181	21.480	30.90	40.12	184.64	7.39	4.91	0.16	0.11	0.16	0.11	0.07	0.00	0.00	0.00	0.00	4.12	0.00	0.	0.00
182	21.380	30.90	40.12	184.64	7.39	4.89	0.15	0.11	0.15	0.11	0.07	0.00	0.00	0.00	0.00	4.16	0.00	0.	0.00
183	21.280	30.90	40.12	184.64	7.39	4.87	0.15	0.10	0.15	0.10	0.06	0.00	0.00	0.00	0.00	4.20	0.00	0.	0.00
184	21.180	30.90	40.12	184.64	7.39	4.86	0.14	0.10	0.14	0.10	0.06	0.00	0.00	0.00	0.00	4.24	0.00	0.	0.00
185	21.080	30.90	40.12	184.64	7.39	4.85	0.14	0.10	0.14	0.10	0.06	0.00	0.00	0.00	0.00	4.28	0.00	0.	0.00
186	20.980	30.90	40.12	184.64	7.39	4.84	0.13	0.09	0.13	0.09	0.06	0.00	0.00	0.00	0.00	4.32	0.00	0.	0.00
187	20.880	30.90	40.12	184.64	7.39	4.83	0.13	0.09	0.13	0.09	0.05	0.00	0.00	0.00	0.00	4.36	0.00	0.	0.00
188	20.780	30.90	40.12	184.64	7.39	4.82	0.13	0.09	0.13	0.09	0.05	0.00	0.00	0.00	0.00	4.40	0.00	0.	0.00
189	20.680	30.90	40.12	184.64	7.39	4.81	0.12	0.08	0.12	0.08	0.05	0.00	0.00	0.00	0.00	4.44	0.00	0.	0.00
190	20.580	30.90	40.12	184.64	7.39	4.81	0.12	0.08	0.12	0.08	0.05	0.00	0.00	0.00	0.00	4.48	0.00	0.	0.00
191	20.480	30.90	40.12	184.64	7.39	4.80	0.11	0.08	0.11	0.08	0.04	0.00	0.00	0.00	0.00	4.52	0.00	0.	0.00
192	20.380	30.90	40.12	184.64	7.39	4.80	0.11	0.08	0.11	0.08	0.04	0.00	0.00	0.00	0.00	4.56	0.00	0.	0.00
193	20.280	30.90	40.12	184.64	7.39	4.80	0.11	0.08	0.11	0.08	0.04	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.00
194	20.180	30.90	40.12	184.64	7.39	4.79	0.10	0.07	0.10	0.07	0.04	0.00	0.00	0.00	0.00	4.64	0.00	0.	0.00
195	20.080	30.90	40.12	184.64	7.39	4.79	0.10	0.07	0.10	0.07	0.04	0.00	0.00	0.00	0.00	4.68	0.00	0.	0.00
196	19.980	30.90	40.12	184.64	7.39	4.79	0.10	0.07	0.10	0.07	0.03	0.00	0.00	0.00	0.00	4.72	0.00	0.	0.00
197	19.880	30.90	40.12	184.64	7.39	4.79	0.10	0.07	0.10	0.07	0.03	0.00	0.00	0.00	0.00	4.76	0.00	0.	0.00
198	19.780	30.90	40.12	184.64	7.39	4.79	0.09	0.06	0.09	0.06	0.03	0.00	0.00	0.00	0.00	4.80	0.00	0.	0.00
199	19.680	30.90	40.12	184.64	7.39	4.79	0.09	0.06	0.09	0.06	0.03	0.00	0.00	0.00	0.00	4.84	0.00	0.	0.00
200	19.580	30.90	40.12	184.64	7.39	4.79	0.09	0.06	0.09	0.06	0.03	0.00	0.00	0.00	0.00	4.88	0.00	0.	0.00
201	19.480	30.90	40.12	184.64	7.39	4.79	0.09	0.06	0.09	0.06	0.03	0.00	0.00	0.00	0.00	4.92	0.00	0.	0.00
202	19.380	30.90	40.12	184.64	7.39	4.80	0.08	0.06	0.08	0.06	0.03	0.00	0.00	0.00	0.00	4.96	0.00	0.	0.00
203	19.280	30.90	40.12	184.64	7.39	4.80	0.08	0.06	0.08	0.06	0.03	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 7 CUTOFF: RKm 19.28 TO RKM 16.28 WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
204	UPR RCH	0.37187	30.90	40.12	184.64	7.39	4.80	0.08	0.06	0.08	0.06	0.03	0.00	0.00	0.00	5.00	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
204	19.28	19.20	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	8218.24	0.005	0.514	0.011
205	19.20	19.12	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	8282.52	0.005	0.514	0.011
206	19.12	19.04	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	8346.81	0.005	0.514	0.011
207	19.04	18.96	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	8411.09	0.005	0.514	0.011
208	18.96	18.88	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	8475.38	0.005	0.514	0.011
209	18.88	18.80	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	8539.66	0.005	0.514	0.011
210	18.80	18.72	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	8603.95	0.005	0.514	0.011
211	18.72	18.64	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	8668.23	0.005	0.514	0.011
212	18.64	18.56	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	8732.51	0.005	0.514	0.011
213	18.56	18.48	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	8796.80	0.005	0.514	0.011
214	18.48	18.40	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	8861.08	0.005	0.514	0.011
215	18.40	18.32	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	8925.37	0.005	0.514	0.011
216	18.32	18.24	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	8989.65	0.006	0.514	0.011
217	18.24	18.16	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9053.93	0.006	0.514	0.011
218	18.16	18.08	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9118.22	0.006	0.514	0.011
219	18.08	18.00	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9182.50	0.006	0.514	0.011
220	18.00	17.92	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9246.79	0.006	0.514	0.011
221	17.92	17.84	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9311.07	0.006	0.514	0.011
222	17.84	17.76	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9375.36	0.006	0.514	0.011
223	17.76	17.68	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9439.64	0.006	0.514	0.011
224	17.68	17.60	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9503.92	0.006	0.514	0.011
225	17.60	17.52	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9568.21	0.006	0.514	0.011
226	17.52	17.44	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9632.49	0.006	0.514	0.011
227	17.44	17.36	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9696.78	0.006	0.514	0.011
228	17.36	17.28	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9761.06	0.006	0.514	0.011
229	17.28	17.20	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9825.34	0.006	0.514	0.011
230	17.20	17.12	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9889.63	0.006	0.514	0.011
231	17.12	17.04	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	9953.91	0.006	0.514	0.011
232	17.04	16.96	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	10018.20	0.006	0.514	0.011
233	16.96	16.88	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	10082.48	0.006	0.514	0.011
234	16.88	16.80	0.37187	7.7	0.01066	0.09	1.42	24.56	2790.92	1964.86	34.89	10146.77	0.006	0.514	0.011
TOT						2.69			86518.36	60910.75					
AVG					0.0107		1.42	24.56			34.89				
CUM						12.86									

********** 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
204	19.200	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00

205	19.120	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
206	19.040	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
207	18.960	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
208	18.880	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
209	18.800	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
210	18.720	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
211	18.640	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
212	18.560	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
213	18.480	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
214	18.400	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
215	18.320	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
216	18.240	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
217	18.160	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
218	18.080	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
219	18.000	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
220	17.920	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
221	17.840	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
222	17.760	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
223	17.680	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
224	17.600	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
225	17.520	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
226	17.440	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
227	17.360	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
228	17.280	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
229	17.200	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
230	17.120	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
231	17.040	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
232	16.960	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
233	16.880	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
234	16.800	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.49	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
204	19.200	30.90	40.12	184.64	7.39	4.80	0.08	0.05	0.08	0.05	0.02	0.00	0.00	0.00	0.00	5.23	0.00	0.	0.00
205	19.120	30.90	40.12	184.64	7.39	4.81	0.08	0.05	0.08	0.05	0.02	0.00	0.00	0.00	0.00	5.45	0.00	0.	0.00
206	19.040	30.90	40.12	184.64	7.39	4.81	0.08	0.05	0.08	0.05	0.02	0.00	0.00	0.00	0.00	5.68	0.00	0.	0.00
207	18.960	30.90	40.12	184.64	7.39	4.82	0.08	0.05	0.08	0.05	0.02	0.00	0.00	0.00	0.00	5.90	0.00	0.	0.00
208	18.880	30.90	40.12	184.64	7.39	4.83	0.08	0.05	0.08	0.05	0.02	0.00	0.00	0.00	0.00	6.13	0.00	0.	0.00
209	18.800	30.90	40.11	184.64	7.39	4.84	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	6.35	0.00	0.	0.00
210	18.720	30.90	40.11	184.64	7.39	4.85	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	6.58	0.00	0.	0.00
211	18.640	30.90	40.11	184.64	7.39	4.87	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	6.81	0.00	0.	0.00
212	18.560	30.90	40.11	184.64	7.39	4.88	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	7.03	0.00	0.	0.00
213	18.480	30.90	40.11	184.64	7.39	4.89	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	7.26	0.00	0.	0.00
214	18.400	30.90	40.11	184.64	7.39	4.91	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	7.48	0.00	0.	0.00
215	18.320	30.90	40.11	184.64	7.39	4.92	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	7.71	0.00	0.	0.00
216	18.240	30.90	40.11	184.64	7.39	4.94	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	7.94	0.00	0.	0.00
217	18.160	30.90	40.11	184.64	7.39	4.96	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	8.16	0.00	0.	0.00
218	18.080	30.90	40.11	184.64	7.39	4.98	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	8.39	0.00	0.	0.00
219	18.000	30.90	40.10	184.64	7.39	5.00	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	8.61	0.00	0.	0.00
220	17.920	30.90	40.10	184.64	7.39	5.02	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	8.84	0.00	0.	0.00

221	17.840	30.90	40.10	184.64	7.39	5.04	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	9.06	0.00	0.	0.00
222	17.760	30.90	40.10	184.64	7.39	5.06	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	9.29	0.00	0.	0.00
223	17.680	30.90	40.10	184.64	7.39	5.08	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	9.52	0.00	0.	0.00
224	17.600	30.90	40.10	184.64	7.39	5.10	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	9.74	0.00	0.	0.00
225	17.520	30.90	40.10	184.64	7.39	5.12	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	9.97	0.00	0.	0.00
226	17.440	30.90	40.10	184.64	7.39	5.14	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	10.19	0.00	0.	0.00
227	17.360	30.90	40.10	184.64	7.39	5.17	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	10.42	0.00	0.	0.00
228	17.280	30.90	40.10	184.64	7.39	5.19	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	10.65	0.00	0.	0.00
229	17.200	30.90	40.09	184.64	7.39	5.22	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	10.87	0.00	0.	0.00
230	17.120	30.90	40.09	184.64	7.39	5.24	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	11.10	0.00	0.	0.00
231	17.040	30.90	40.09	184.64	7.39	5.27	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	11.32	0.00	0.	0.00
232	16.960	30.90	40.09	184.64	7.39	5.29	0.06	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	11.55	0.00	0.	0.00
233	16.880	30.90	40.09	184.64	7.39	5.32	0.06	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	11.77	0.00	0.	0.00
234	16.800	30.90	40.09	184.64	7.39	5.34	0.06	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	12.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 8 CUTOFF: RKM 16.28 TO BAYOU FOLSE WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
235	UPR RCH	0.37187	30.90	40.09	184.64	7.39	5.34	0.06	0.03	0.06	0.03	0.01	0.00	0.00	0.00	12.00	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
235	16.80	16.70	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	10229.95	0.006	0.514	0.011
236	16.70	16.60	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	10313.12	0.006	0.514	0.011
237	16.60	16.50	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	10396.30	0.006	0.515	0.011
238	16.50	16.40	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	10479.48	0.006	0.515	0.011
239	16.40	16.30	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	10562.66	0.006	0.516	0.011
240	16.30	16.20	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	10645.84	0.007	0.516	0.011
241	16.20	16.10	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	10729.02	0.007	0.517	0.011
242	16.10	16.00	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	10812.20	0.007	0.518	0.011
243	16.00	15.90	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	10895.38	0.007	0.519	0.011
244	15.90	15.80	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	10978.56	0.007	0.520	0.011
245	15.80	15.70	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	11061.74	0.007	0.520	0.011
246	15.70	15.60	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	11144.92	0.007	0.521	0.011
247	15.60	15.50	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	11228.10	0.007	0.522	0.011
248	15.50	15.40	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	11311.28	0.007	0.523	0.011
249	15.40	15.30	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	11394.46	0.007	0.525	0.011
250	15.30	15.20	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	11477.64	0.007	0.526	0.011
251	15.20	15.10	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	11560.82	0.007	0.527	0.011
252	15.10	15.00	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	11644.00	0.007	0.528	0.011
253	15.00	14.90	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	11727.18	0.007	0.529	0.011
254	14.90	14.80	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	11810.36	0.007	0.530	0.011
255	14.80	14.70	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	11893.54	0.007	0.532	0.011
256	14.70	14.60	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	11976.72	0.007	0.533	0.011
257	14.60	14.50	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	12059.90	0.007	0.534	0.011
258	14.50	14.40	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	12143.08	0.007	0.535	0.011

259	14.40	14.30	0.37187	7.7	0.01066	0.11	1.42	24.56	3488.64	2456.08	34.89	12226.26	0.007	0.537	0.011							
TOT						2.71			87216.09	61401.96												
AVG					0.0107		1.42	24.56			34.89											
CUM						15.57																

********** 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
235	16.700	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
236	16.600	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
237	16.500	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
238	16.400	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
239	16.300	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
240	16.200	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
241	16.100	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
242	16.000	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
243	15.900	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
244	15.800	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
245	15.700	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
246	15.600	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
247	15.500	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
248	15.400	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
249	15.300	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
250	15.200	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
251	15.100	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
252	15.000	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
253	14.900	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00
254	14.800	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
255	14.700	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
256	14.600	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
257	14.500	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.00
258	14.400	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
259	14.300	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.49	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
235	16.700	30.90	40.09	184.64	7.39	5.37	0.06	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	12.29	0.00	0.	0.00
236	16.600	30.90	40.09	184.64	7.39	5.41	0.06	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	12.58	0.00	0.	0.00
237	16.500	30.90	40.09	184.64	7.39	5.44	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	12.86	0.00	0.	0.00
238	16.400	30.90	40.09	184.64	7.39	5.48	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	13.15	0.00	0.	0.00
239	16.300	30.90	40.09	184.64	7.39	5.51	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	13.44	0.00	0.	0.00
240	16.200	30.90	40.09	184.64	7.39	5.55	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	13.73	0.00	0.	0.00
241	16.100	30.90	40.09	184.64	7.39	5.58	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	14.02	0.00	0.	0.00
242	16.000	30.90	40.09	184.64	7.39	5.62	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	14.30	0.00	0.	0.00
243	15.900	30.90	40.09	184.64	7.39	5.65	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	14.59	0.00	0.	0.00

244	15.800	30.90	40.09	184.64	7.39	5.69	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	14.88	0.00	0.	0.00
245	15.700	30.90	40.09	184.64	7.39	5.73	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	15.17	0.00	0.	0.00
246	15.600	30.90	40.09	184.64	7.39	5.76	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	15.46	0.00	0.	0.00
247	15.500	30.90	40.09	184.64	7.39	5.80	0.04	0.03	0.04	0.03	0.01	0.00	0.00	0.00	0.00	15.74	0.00	0.	0.00
248	15.400	30.90	40.09	184.64	7.39	5.84	0.04	0.03	0.04	0.03	0.01	0.00	0.00	0.00	0.00	16.03	0.00	0.	0.00
249	15.300	30.90	40.09	184.64	7.39	5.88	0.04	0.03	0.04	0.03	0.02	0.00	0.00	0.00	0.00	16.32	0.00	0.	0.00
250	15.200	30.90	40.09	184.64	7.39	5.91	0.04	0.03	0.04	0.03	0.02	0.00	0.00	0.00	0.00	16.61	0.00	0.	0.00
251	15.100	30.90	40.09	184.64	7.39	5.95	0.04	0.03	0.04	0.03	0.02	0.00	0.00	0.00	0.00	16.90	0.00	0.	0.00
252	15.000	30.90	40.09	184.64	7.39	5.99	0.04	0.03	0.04	0.03	0.02	0.00	0.00	0.00	0.00	17.18	0.00	0.	0.00
253	14.900	30.90	40.09	184.64	7.39	6.03	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	17.47	0.00	0.	0.00
254	14.800	30.90	40.09	184.64	7.39	6.07	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	17.76	0.00	0.	0.00
255	14.700	30.90	40.09	184.64	7.39	6.10	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	18.05	0.00	0.	0.00
256	14.600	30.90	40.09	184.64	7.39	6.14	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	18.34	0.00	0.	0.00
257	14.500	30.90	40.09	184.64	7.39	6.18	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	18.62	0.00	0.	0.00
258	14.400	30.90	40.09	184.64	7.39	6.22	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	18.91	0.00	0.	0.00
259	14.300	30.90	40.09	184.64	7.39	6.27	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	19.20	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 9 FOLSE: THERIOT CANAL TO RKM 12.3 WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
260	UPR RCH	0.37187	30.90	40.09	184.64	7.39	6.27	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	19.20	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
260	14.30	14.20	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	12317.55	0.007	0.499	0.010
261	14.20	14.10	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	12408.83	0.007	0.500	0.010
262	14.10	14.00	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	12500.12	0.007	0.502	0.010
263	14.00	13.90	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	12591.41	0.007	0.503	0.010
264	13.90	13.80	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	12682.70	0.007	0.505	0.010
265	13.80	13.70	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	12773.99	0.007	0.506	0.010
266	13.70	13.60	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	12865.27	0.007	0.508	0.010
267	13.60	13.50	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	12956.56	0.007	0.509	0.010
268	13.50	13.40	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	13047.85	0.007	0.511	0.010
269	13.40	13.30	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	13139.14	0.007	0.512	0.010
270	13.30	13.20	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	13230.43	0.007	0.514	0.010
271	13.20	13.10	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	13321.71	0.007	0.516	0.010
272	13.10	13.00	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	13413.00	0.007	0.517	0.010
273	13.00	12.90	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	13504.29	0.007	0.519	0.010
274	12.90	12.80	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	13595.58	0.007	0.520	0.010
275	12.80	12.70	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	13686.87	0.007	0.522	0.010
276	12.70	12.60	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	13778.16	0.007	0.524	0.010
277	12.60	12.50	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	13869.44	0.007	0.525	0.010
278	12.50	12.40	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	13960.73	0.007	0.527	0.010
279	12.40	12.30	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	14052.02	0.008	0.529	0.010
TOT						2.49			80027.83	52329.84					

AVG							0.0093				1.53	26.16						40.01					
CUM								18.06															

********** 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
260	14.200	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
261	14.100	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
262	14.000	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
263	13.900	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
264	13.800	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
265	13.700	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
266	13.600	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
267	13.500	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
268	13.400	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
269	13.300	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
270	13.200	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
271	13.100	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
272	13.000	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
273	12.900	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
274	12.800	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
275	12.700	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
276	12.600	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
277	12.500	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
278	12.400	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
279	12.300	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.46	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
260	14.200	30.90	40.09	184.64	7.39	6.32	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	19.22	0.00	0.	0.00
261	14.100	30.90	40.09	184.64	7.39	6.36	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	19.23	0.00	0.	0.00
262	14.000	30.90	40.09	184.64	7.39	6.41	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	19.25	0.00	0.	0.00
263	13.900	30.90	40.09	184.64	7.39	6.45	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.26	0.00	0.	0.00
264	13.800	30.90	40.09	184.64	7.39	6.49	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.27	0.00	0.	0.00
265	13.700	30.90	40.09	184.64	7.39	6.52	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.29	0.00	0.	0.00
266	13.600	30.90	40.09	184.64	7.39	6.56	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.31	0.00	0.	0.00
267	13.500	30.90	40.09	184.64	7.39	6.59	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.32	0.00	0.	0.00
268	13.400	30.90	40.09	184.64	7.39	6.62	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.34	0.00	0.	0.00
269	13.300	30.90	40.09	184.64	7.39	6.65	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.35	0.00	0.	0.00
270	13.200	30.90	40.09	184.64	7.39	6.68	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.36	0.00	0.	0.00
271	13.100	30.90	40.09	184.64	7.39	6.70	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.38	0.00	0.	0.00
272	13.000	30.90	40.09	184.64	7.39	6.72	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.40	0.00	0.	0.00
273	12.900	30.90	40.09	184.64	7.39	6.75	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.41	0.00	0.	0.00
274	12.800	30.90	40.09	184.64	7.39	6.77	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.42	0.00	0.	0.00
275	12.700	30.90	40.09	184.64	7.39	6.79	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.44	0.00	0.	0.00
276	12.600	30.90	40.09	184.64	7.39	6.81	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.45	0.00	0.	0.00

277	12.500	30.90	40.09	184.64	7.39	6.83	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.47	0.00	0.	0.00
278	12.400	30.90	40.09	184.64	7.39	6.84	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.49	0.00	0.	0.00
279	12.300	30.90	40.09	184.64	7.39	6.86	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF — WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 10 FOLSE: RKM 12.30 TO RKM 10.20 — WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
280	UPR RCH	0.37187	30.90	40.09	184.64	7.39	6.86	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	19.50	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
280	12.30	12.20	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	14145.98	0.008	0.531	0.010
281	12.20	12.10	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	14239.95	0.008	0.532	0.010
282	12.10	12.00	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	14333.91	0.008	0.534	0.010
283	12.00	11.90	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	14427.87	0.008	0.536	0.010
284	11.90	11.80	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	14521.83	0.008	0.538	0.010
285	11.80	11.70	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	14615.80	0.008	0.540	0.011
286	11.70	11.60	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	14709.76	0.008	0.542	0.011
287	11.60	11.50	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	14803.72	0.008	0.543	0.011
288	11.50	11.40	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	14897.69	0.008	0.545	0.011
289	11.40	11.30	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	14991.65	0.008	0.547	0.011
290	11.30	11.20	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	15085.61	0.008	0.549	0.011
291	11.20	11.10	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	15179.57	0.008	0.551	0.011
292	11.10	11.00	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	15273.54	0.008	0.553	0.011
293	11.00	10.90	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	15367.50	0.008	0.555	0.011
294	10.90	10.80	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	15461.46	0.008	0.557	0.011
295	10.80	10.70	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	15555.43	0.008	0.559	0.011
296	10.70	10.60	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	15649.39	0.008	0.561	0.011
297	10.60	10.50	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	15743.35	0.008	0.563	0.011
298	10.50	10.40	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	15837.31	0.008	0.564	0.011
299	10.40	10.30	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	15931.28	0.009	0.566	0.011
300	10.30	10.20	0.37187	7.7	0.00929	0.12	1.53	26.16	4001.39	2616.49	40.01	16025.24	0.009	0.568	0.011
TOT						2.62			84029.22	54946.33					
AVG					0.0093		1.53	26.16			40.01				
CUM						20.68									

********** 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
280	12.200	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.40	1.40	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
281	12.100	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.40	1.40	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00

282	12.000	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.40	1.40	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
283	11.900	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.40	1.40	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
284	11.800	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.40	1.40	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
285	11.700	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.40	1.40	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
286	11.600	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
287	11.500	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
288	11.400	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
289	11.300	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
290	11.200	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
291	11.100	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
292	11.000	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
293	10.900	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
294	10.800	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
295	10.700	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
296	10.600	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
297	10.500	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
298	10.400	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.42	1.42	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
299	10.300	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.42	1.42	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
300	10.200	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.42	1.42	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.46	0.12	0.20	0.00	0.03	0.20	0.00	0.69			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
280	12.200	30.90	40.09	184.64	7.39	6.88	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
281	12.100	30.90	40.09	184.64	7.39	6.90	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
282	12.000	30.90	40.09	184.64	7.39	6.92	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
283	11.900	30.90	40.09	184.64	7.39	6.94	0.07	0.03	0.07	0.03	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
284	11.800	30.90	40.09	184.64	7.39	6.96	0.07	0.03	0.07	0.03	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
285	11.700	30.90	40.09	184.64	7.39	6.97	0.07	0.03	0.07	0.03	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
286	11.600	30.90	40.09	184.64	7.39	6.99	0.07	0.03	0.07	0.03	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
287	11.500	30.90	40.09	184.64	7.39	7.00	0.07	0.03	0.07	0.03	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
288	11.400	30.90	40.09	184.64	7.39	7.01	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
289	11.300	30.90	40.09	184.64	7.39	7.02	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
290	11.200	30.90	40.09	184.64	7.39	7.03	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
291	11.100	30.90	40.09	184.64	7.39	7.04	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
292	11.000	30.90	40.09	184.64	7.39	7.05	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
293	10.900	30.90	40.09	184.64	7.39	7.06	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
294	10.800	30.90	40.09	184.64	7.39	7.07	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
295	10.700	30.90	40.09	184.64	7.39	7.08	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
296	10.600	30.90	40.09	184.64	7.39	7.08	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
297	10.500	30.90	40.09	184.64	7.39	7.09	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
298	10.400	30.90	40.09	184.64	7.39	7.10	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
299	10.300	30.90	40.09	184.64	7.39	7.12	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
300	10.200	30.90	40.09	184.64	7.39	7.17	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 11 FOLSE: RKM 10.20 TO RKM 7.40 WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
301	UPR RCH	0.37187	30.90	40.09	184.64	7.39	7.17	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	19.50	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
301	10.20	10.00	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	16329.98	0.005	0.366	0.007
302	10.00	9.80	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	16634.72	0.006	0.370	0.007
303	9.80	9.60	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	16939.46	0.006	0.374	0.007
304	9.60	9.40	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	17244.19	0.006	0.378	0.007
305	9.40	9.20	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	17548.93	0.006	0.383	0.007
306	9.20	9.00	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	17853.67	0.006	0.387	0.007
307	9.00	8.80	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	18158.41	0.006	0.391	0.007
308	8.80	8.60	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	18463.15	0.006	0.396	0.008
309	8.60	8.40	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	18767.88	0.006	0.400	0.008
310	8.40	8.20	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	19072.62	0.006	0.405	0.008
311	8.20	8.00	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	19377.36	0.006	0.409	0.008
312	8.00	7.80	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	19682.10	0.007	0.414	0.008
313	7.80	7.60	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	19986.84	0.007	0.418	0.008
314	7.60	7.40	0.37187	7.7	0.00576	0.40	1.58	40.92	12914.00	8184.77	64.57	20291.58	0.007	0.423	0.008
TOT						5.63			180796.02	114586.73					
AVG					0.0058		1.58	40.92			64.57				
CUM						26.31									

********** 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
301	10.000	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.55	0.55	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
302	9.800	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.55	0.55	0.21	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
303	9.600	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
304	9.400	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
305	9.200	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
306	9.000	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00
307	8.800	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00
308	8.600	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00
309	8.400	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
310	8.200	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
311	8.000	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
312	7.800	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
313	7.600	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
314	7.400	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.44	0.12	0.20	0.00	0.03	0.20	0.00	0.25			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
301	10.000	30.90	40.09	184.64	7.39	7.35	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.54	0.00	0.	0.00
302	9.800	30.90	40.09	184.64	7.39	7.52	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.57	0.00	0.	0.00
303	9.600	30.90	40.09	184.64	7.39	7.66	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.61	0.00	0.	0.00
304	9.400	30.90	40.09	184.64	7.39	7.77	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.64	0.00	0.	0.00
305	9.200	30.90	40.09	184.64	7.39	7.87	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.68	0.00	0.	0.00
306	9.000	30.90	40.09	184.64	7.39	7.95	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.71	0.00	0.	0.00
307	8.800	30.90	40.09	184.64	7.39	8.02	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.75	0.00	0.	0.00
308	8.600	30.90	40.09	184.64	7.39	8.08	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.79	0.00	0.	0.00
309	8.400	30.90	40.09	184.64	7.39	8.13	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	0.00	19.82	0.00	0.	0.00
310	8.200	30.90	40.09	184.64	7.39	8.17	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	0.00	19.86	0.00	0.	0.00
311	8.000	30.90	40.09	184.64	7.39	8.21	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	0.00	19.89	0.00	0.	0.00
312	7.800	30.90	40.09	184.64	7.39	8.24	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	0.00	19.93	0.00	0.	0.00
313	7.600	30.90	40.09	184.64	7.39	8.26	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	0.00	19.96	0.00	0.	0.00
314	7.400	30.90	40.09	184.64	7.39	8.29	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	0.00	20.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 12 FOLSE: RKM 7.40 TO RACELAND C. WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
315	UPR RCH	0.37187	30.90	40.09	184.64	7.39	8.29	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	20.00	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
315	7.40	7.25	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	20529.54	0.007	0.426	0.008
316	7.25	7.10	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	20767.51	0.007	0.430	0.008
317	7.10	6.95	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	21005.48	0.007	0.434	0.008
318	6.95	6.80	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	21243.45	0.007	0.437	0.008
319	6.80	6.65	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	21481.42	0.007	0.441	0.008
320	6.65	6.50	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	21719.39	0.007	0.444	0.008
321	6.50	6.35	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	21957.36	0.007	0.448	0.009
322	6.35	6.20	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	22195.33	0.007	0.452	0.009
323	6.20	6.05	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	22433.29	0.007	0.455	0.009
324	6.05	5.90	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	22671.26	0.008	0.459	0.009
325	5.90	5.75	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	22909.23	0.008	0.463	0.009
326	5.75	5.60	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	23147.20	0.008	0.467	0.009
327	5.60	5.45	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	23385.17	0.008	0.470	0.009
328	5.45	5.30	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	23623.14	0.008	0.474	0.009
329	5.30	5.15	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	23861.11	0.008	0.478	0.009
330	5.15	5.00	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	24099.08	0.008	0.482	0.009
331	5.00	4.85	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	24337.04	0.008	0.485	0.009
332	4.85	4.70	0.37187	7.7	0.00576	0.30	1.58	40.92	9685.50	6138.57	64.57	24575.01	0.008	0.489	0.009

TOT								5.43						174339.02	110494.37									
AVG						0.0058				1.58	40.92							64.57						
CUM								31.73																

********** 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
315	7.250	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
316	7.100	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
317	6.950	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
318	6.800	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00
319	6.650	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00
320	6.500	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
321	6.350	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
322	6.200	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
323	6.050	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
324	5.900	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
325	5.750	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
326	5.600	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
327	5.450	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
328	5.300	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
329	5.150	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
330	5.000	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
331	4.850	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
332	4.700	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.44	0.12	0.20	0.00	0.03	0.20	0.00	0.25			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
315	7.250	30.90	40.09	184.64	7.39	8.30	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.06	0.00	0.	0.00
316	7.100	30.90	40.09	184.64	7.39	8.32	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.11	0.00	0.	0.00
317	6.950	30.90	40.09	184.64	7.39	8.33	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.17	0.00	0.	0.00
318	6.800	30.90	40.09	184.64	7.39	8.35	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.22	0.00	0.	0.00
319	6.650	30.90	40.09	184.64	7.39	8.36	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.28	0.00	0.	0.00
320	6.500	30.90	40.09	184.64	7.39	8.38	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.33	0.00	0.	0.00
321	6.350	30.90	40.09	184.64	7.39	8.39	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.39	0.00	0.	0.00
322	6.200	30.90	40.09	184.64	7.39	8.40	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.44	0.00	0.	0.00
323	6.050	30.90	40.10	184.64	7.39	8.41	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.50	0.00	0.	0.00
324	5.900	30.90	40.10	184.64	7.39	8.42	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.56	0.00	0.	0.00
325	5.750	30.90	40.10	184.64	7.39	8.44	0.05	0.04	0.05	0.04	0.02	0.00	0.00	0.00	0.00	20.61	0.00	0.	0.00
326	5.600	30.90	40.10	184.64	7.39	8.45	0.05	0.04	0.05	0.04	0.02	0.00	0.00	0.00	0.00	20.67	0.00	0.	0.00
327	5.450	30.90	40.10	184.64	7.39	8.46	0.05	0.04	0.05	0.04	0.02	0.00	0.00	0.00	0.00	20.72	0.00	0.	0.00
328	5.300	30.90	40.10	184.64	7.39	8.47	0.05	0.04	0.05	0.04	0.02	0.00	0.00	0.00	0.00	20.78	0.00	0.	0.00
329	5.150	30.90	40.10	184.64	7.39	8.48	0.05	0.03	0.05	0.03	0.02	0.00	0.00	0.00	0.00	20.83	0.00	0.	0.00
330	5.000	30.90	40.10	184.64	7.39	8.48	0.05	0.03	0.05	0.03	0.02	0.00	0.00	0.00	0.00	20.89	0.00	0.	0.00
331	4.850	30.90	40.10	184.64	7.39	8.47	0.05	0.03	0.05	0.03	0.02	0.00	0.00	0.00	0.00	20.94	0.00	0.	0.00

332	4.700	30.90	40.10	184.64	7.39	8.41	0.05	0.03	0.05	0.03	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 13 FOLSE: RACELAND C. TO RKM 2.32 WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
333	UPR RCH	0.37187	30.90	40.10	184.64	7.39	8.41	0.05	0.03	0.05	0.03	0.02	0.00	0.00	0.00	21.00	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
333	4.70	4.58	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	24756.48	0.013	0.569	0.015
334	4.58	4.46	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	24937.95	0.013	0.573	0.015
335	4.46	4.34	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	25119.41	0.013	0.576	0.015
336	4.34	4.22	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	25300.88	0.013	0.579	0.015
337	4.22	4.11	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	25482.35	0.014	0.583	0.015
338	4.11	3.99	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	25663.81	0.014	0.586	0.016
339	3.99	3.87	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	25845.28	0.014	0.589	0.016
340	3.87	3.75	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	26026.75	0.014	0.593	0.016
341	3.75	3.63	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	26208.21	0.014	0.596	0.016
342	3.63	3.51	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	26389.68	0.014	0.599	0.016
343	3.51	3.39	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	26571.15	0.014	0.603	0.016
344	3.39	3.27	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	26752.62	0.014	0.606	0.016
345	3.27	3.15	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	26934.08	0.014	0.609	0.016
346	3.15	3.03	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	27115.55	0.014	0.613	0.016
347	3.03	2.92	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	27297.02	0.015	0.616	0.016
348	2.92	2.80	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	27478.48	0.015	0.620	0.016
349	2.80	2.68	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	27659.95	0.015	0.623	0.016
350	2.68	2.56	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	27841.42	0.015	0.626	0.017
351	2.56	2.44	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	28022.88	0.015	0.630	0.017
352	2.44	2.32	0.37187	7.7	0.00928	0.15	1.06	37.80	4768.09	4498.20	40.07	28204.35	0.015	0.633	0.017
TOT						2.97			95361.86	89964.01					
AVG					0.0093		1.06	37.80			40.07				
CUM						34.70									

********** 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
333	4.581	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
334	4.462	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
335	4.343	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
336	4.224	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
337	4.105	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00

338	3.986	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
339	3.867	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
340	3.748	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
341	3.629	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
342	3.510	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
343	3.391	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
344	3.272	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
345	3.153	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
346	3.034	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
347	2.915	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
348	2.796	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
349	2.677	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
350	2.558	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
351	2.439	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
352	2.320	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.66	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
333	4.581	30.90	40.10	184.64	7.39	8.21	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
334	4.462	30.90	40.10	184.64	7.39	8.03	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
335	4.343	30.90	40.10	184.64	7.39	7.86	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
336	4.224	30.90	40.10	184.64	7.39	7.71	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
337	4.105	30.90	40.10	184.64	7.39	7.58	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
338	3.986	30.90	40.10	184.64	7.39	7.46	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
339	3.867	30.90	40.10	184.64	7.39	7.35	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
340	3.748	30.90	40.10	184.64	7.39	7.25	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
341	3.629	30.90	40.10	184.64	7.39	7.16	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
342	3.510	30.90	40.10	184.64	7.39	7.08	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
343	3.391	30.90	40.10	184.64	7.39	7.01	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
344	3.272	30.90	40.10	184.64	7.39	6.95	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
345	3.153	30.90	40.10	184.64	7.39	6.89	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
346	3.034	30.90	40.10	184.64	7.39	6.84	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
347	2.915	30.90	40.10	184.64	7.39	6.79	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
348	2.796	30.90	40.10	184.64	7.39	6.75	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
349	2.677	30.90	40.10	184.64	7.39	6.71	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
350	2.558	30.90	40.10	184.64	7.39	6.68	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
351	2.439	30.90	40.10	184.64	7.39	6.65	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
352	2.320	30.90	40.10	184.64	7.39	6.63	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 14 FOLSE: RKM 2.32 TO COMPANY CANAL WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
353	UPR RCH	0.37187	30.90	40.10	184.64	7.39	6.63	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	21.00	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
353	2.32	2.20	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	28387.59	0.015	0.637	0.017
354	2.20	2.09	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	28570.84	0.015	0.640	0.017
355	2.09	1.97	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	28754.08	0.015	0.644	0.017
356	1.97	1.86	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	28937.33	0.015	0.647	0.017
357	1.86	1.74	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	29120.57	0.016	0.650	0.017
358	1.74	1.62	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	29303.81	0.016	0.654	0.017
359	1.62	1.51	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	29487.06	0.016	0.657	0.017
360	1.51	1.39	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	29670.30	0.016	0.661	0.017
361	1.39	1.28	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	29853.55	0.016	0.664	0.018
362	1.28	1.16	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	30036.79	0.016	0.668	0.018
363	1.16	1.04	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	30220.04	0.016	0.671	0.018
364	1.04	0.93	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	30403.28	0.016	0.675	0.018
365	0.93	0.81	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	30586.52	0.016	0.678	0.018
366	0.81	0.70	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	30769.77	0.016	0.682	0.018
367	0.70	0.58	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	30953.01	0.017	0.685	0.018
368	0.58	0.46	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	31136.26	0.017	0.689	0.018
369	0.46	0.35	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	31319.50	0.017	0.692	0.018
370	0.35	0.23	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	31502.74	0.017	0.696	0.018
371	0.23	0.12	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	31685.99	0.017	0.699	0.019
372	0.12	0.00	0.37187	7.7	0.00928	0.14	1.06	37.80	4647.89	4384.80	40.07	31869.23	0.017	0.703	0.019
TOT						2.89			92957.76	87695.99					
AVG					0.0093		1.06	37.80			40.07				
CUM						37.59									

********** 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
353	2.204	6.04	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
354	2.088	6.11	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
355	1.972	6.18	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
356	1.856	6.25	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
357	1.740	6.31	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
358	1.624	6.38	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
359	1.508	6.45	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
360	1.392	6.52	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
361	1.276	6.59	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
362	1.160	6.67	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
363	1.044	6.74	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
364	0.928	6.81	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
365	0.812	6.89	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
366	0.696	6.96	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
367	0.580	7.04	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
368	0.464	7.12	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
369	0.348	7.19	0.81	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.58	1.58	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
370	0.232	7.27	0.81	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.73	1.73	0.20	0.39	0.00	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00

371	0.116	7.35	0.81	0.20	0.26	0.00	0.05	0.26	0.00	1.47	2.13	2.13	0.20	0.39	0.00	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
372	0.000	7.43	0.81	0.20	0.26	0.00	0.05	0.26	0.00	1.47	3.20	3.20	0.20	0.39	0.00	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.66	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
353	2.204	30.90	38.10	184.64	7.39	6.61	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
354	2.088	30.90	36.10	184.64	7.39	6.61	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
355	1.972	30.91	34.10	184.64	7.39	6.61	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
356	1.856	30.91	32.10	184.64	7.39	6.61	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
357	1.740	30.91	30.10	184.64	7.39	6.63	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
358	1.624	30.91	28.10	184.64	7.39	6.65	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
359	1.508	30.91	26.10	184.64	7.39	6.67	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
360	1.392	30.92	24.10	184.64	7.39	6.70	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
361	1.276	30.92	22.10	184.64	7.39	6.73	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
362	1.160	30.92	20.10	184.64	7.39	6.77	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
363	1.044	30.92	18.10	184.64	7.39	6.81	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
364	0.928	30.92	16.10	184.65	7.39	6.85	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
365	0.812	30.93	14.10	184.66	7.39	6.90	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
366	0.696	30.93	12.10	184.70	7.40	6.94	0.06	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
367	0.580	30.93	10.10	184.81	7.44	6.98	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
368	0.464	30.93	8.10	185.08	7.51	7.01	0.12	0.07	0.12	0.07	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
369	0.348	30.93	6.10	185.78	7.71	7.00	0.25	0.14	0.25	0.14	0.05	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
370	0.232	30.94	4.10	187.56	8.22	6.90	0.60	0.33	0.60	0.33	0.13	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
371	0.116	30.94	2.10	192.09	9.51	6.60	1.55	0.84	1.55	0.84	0.35	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
372	0.000	30.94	0.10	203.53	12.77	5.84	4.11	2.19	4.11	2.19	0.94	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

STREAM SUMMARY
BAYOU CUTOFF

WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION

TRAVEL TIME	=	37.59	DAYS		
MAXIMUM EFFLUENT	=	7.68	PERCENT		
FLOW	=	0.34330	TO	0.37187	m³/s
DISPERSION	=	0.3657	TO	1.4326	m²/s
VELOCITY	=	0.00576	TO	0.06543	m/s
DEPTH	=	0.55	TO	1.58	m
WIDTH	=	9.80	TO	40.92	m
BOD DECAY	=	0.19	TO	0.20	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.53	TO	3.20	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	0.53	TO	1.87	per day
BOD SETTLING	=	0.26	TO	0.26	per day
NBOD DECAY	=	0.19	TO	0.21	per day
NBOD SETTLING	=	0.39	TO	0.39	per day
TEMPERATURE	=	30.90	TO	30.94	deg C

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 DISSOLVED OXYGEN  =    4.67   TO    8.48      mg/L


     .....EXECUTION COMPLETED
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Appendix D2 – Summer Projection Justifications

Bayou Folse/Cutoff 120302 Summer Projection Justification

DATA TYPE 3 - PROGRAM CONSTANTS			
CONSTANT NAME	**VALUE**	**UNITS**	**DATA SOURCE**
DISPERSION EQUATION	3		Equation used to account for all modes of transport.
HEADWATER EXCHANGE RATIO	1		This is done to depict dispersive boundaries - Company Canal and ICWW.
TIDE HEIGHT	0.0426		USGS Site - Company Canal at Salt Water Barrier
TIDAL PERIOD	26		USGS Site - Company Canal at Salt Water Barrier
PERIOD OF TIDAL RISE	12		USGS Site - Company Canal at Salt Water Barrier
K2 MAXIMUM	25	1/day at 20 deg C	EPA Policy in the absence of a measured value.
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.
SETTLING RATE UNITS	2		By making the settling rate a velocity the rate becomes dependent upon the depth.
WIND VELOCITY	0.68		Calculated from Houma Weather Station.
KL MINIMUM	0.7	m/day	The minimum KL of 2.3 ft/day converted to 0.70 m/day.

Bayou Folse/Cutoff 120302 Summer Projection Justification						
DATA TYPE 8 - REACH IDENTIFICATION DATA						
Reach	**ID**	**Name**	**Upstream River Kilometer**	**Downstream River Kilometer**	**Element Length, meters**	**Data Source**
1	BC	Thibodaux to Dugas Ditch	33.20	31.24	40.0000	ARC MAP Calc.
2	BC	Dugas Ditch to Arpent Canal	31.24	28.66	60.0000	ARC MAP Calc.
3	BC	Arpent Canal to Thoroughbred Canal	28.66	27.62	80.0000	ARC MAP Calc.
4	BC	Thoroughbred Canal to RKM 24.66	27.62	24.66	80.0000	ARC MAP Calc.
5	BC	RKM 24.66 to St. Charles	24.66	21.78	80.0000	ARC MAP Calc.
6	BC	St. Charles to RKM 19.28	21.78	19.28	100.0000	ARC MAP Calc.
7	BC	RKM 19.28 to RKM 16.28	19.28	16.80	80.0000	ARC MAP Calc.
8	BC	RKM 16.28 to Bayou Folse	16.80	14.30	100.0000	ARC MAP Calc.
9	BF	Theriot Canal to RKM 12.3	14.30	12.30	100.0000	ARC MAP Calc.
10	BF	RKM 12.3 to RKM 10.20	12.30	10.20	100.0000	ARC MAP Calc.
11	BF	RKM 10.20 to RKM 7.40	10.20	7.40	200.0000	ARC MAP Calc.
12	BF	RKM 7.40 to Raceland Canal	7.40	4.70	150.0000	ARC MAP Calc.
13	BF	Raceland Canal to RKM 2.32	4.70	2.32	119.0000	ARC MAP Calc.
14	BF	RKM 2.32 to Company Canal	2.32	0.00	116.0000	ARC MAP Calc.

Bayou Folse/Cutoff 120302 Summer Projection Justification									
		Data Type 9 - Advective Hydraulic Coefficients							
Reach	Name	Width Coeff. "a"	Width Exp. "b"	Width Const. "c"	Data Source	Depth Coeff. "d"	Depth Exp. "e"	Depth Const. "f"	Data Source
1	Thibodaux to Dugas Ditch	0.806	1	9.520	BCUT-01	0.143	1	0.5	BCUT-01
2	Dugas Ditch to Arpent Canal	0.942	1	14.260	BCUT-02	0.07	1	0.960	BCUT-02
3	Arpent Canal to Thoroughbred Canal	0.4	1	20.310	BCUT-03	0.05	1	1.180	BCUT-03
4	Thoroughbred Canal to RKM 24.66	0.4	1	20.310	BCUT-03	0.05	1	1.180	BCUT-03
5	RKM 24.66 to St. Charles	0.762	1	24.380	BCUT-04	0.039	1	1.280	BCUT-04
6	St. Charles to RKM 19.28	0.029	1	24.550	BCUT-06	0.028	1	1.410	BCUT-06
7	RKM 19.28 to RKM 16.28	0.029	1	24.550	BCUT-06	0.028	1	1.410	BCUT-06
8	RKM 16.28 to Bayou Folse	0.029	1	24.550	BCUT-06	0.028	1	1.410	BCUT-06
9	Theriot Canal to RKM 12.3	0.067	1	26.140	BF-03	0.025	1	1.520	BF-03
10	RKM 12.3 to RKM 10.20	0.067	1	26.140	BF-03	0.025	1	1.520	BF-03
11	RKM 10.20 to RKM 7.40	0.333	1	40.800	BF-02	0.021	1	1.570	BF-02
12	RKM 7.40 to Raceland Canal	0.333	1	40.800	BF-02	0.021	1	1.570	BF-02
13	Raceland Canal to RKM 2.32	0	0	37.800	BF-01	0	0	1.060	BF-01
14	RKM 2.32 to Company Canal	0	0	37.800	BF-01	0	0	1.060	BF-01

Bayou Folse/Cutoff 120302 Summer Projection Justification							
DATA TYPE 10 - DISPERSIVE HYDRAULIC COEFFICIENTS							
Reach	Tidal Range	Data Source	a	b	c	d	Data Source
1	0.657	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
2	0.670	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
3	0.682	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
4	0.697	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
5	0.720	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
6	0.744	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
7	0.768	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
8	0.795	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
9	0.819	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
10	0.843	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
11	0.874	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
12	0.910	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
13	0.947	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
14	0.981	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion

Bayou Folse/Cutoff 120302 Summer Projection Justification								
DATA TYPE 11-INITIAL CONDITIONS								
Reach	Name	Temp, deg C	DO, mg/l	Data Source	Sal, ppt	Data Source	Chlorophyll a	Data Source
1	Thibodaux to Dugas Ditch	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment	0.22	BCUT-01 Insitu	2.00	Calibration
2	Dugas Ditch to Arpent Canal	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BCUT-02 Insitu	2.00	Calibration
3	Arpent Canal to Thoroughbred Canal	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.07	BCUT-03 Insitu	2.00	Calibration
4	Thoroughbred Canal to RKM 24.66	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.07	BCUT-03 Insitu	3.20	Calibration
5	RKM 24.66 to St. Charles	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.12	BCUT-04 Insitu	3.50	Calibration
6	St. Charles to RKM 19.28	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.12	BCUT-04 Insitu	4.00	Calibration
7	RKM 19.28 to RKM 16.28	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.12	BCUT-04 Insitu	5.00	Calibration
8	RKM 16.28 to Bayou Folse	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-03 Insitu	12.00	Calibration
9	Theriot Canal to RKM 12.3	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-03 Insitu	19.20	Calibration
10	RKM 12.3 to RKM 10.20	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-03 Insitu	19.50	Calibration
11	RKM 10.20 to RKM 7.40	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-02 Insitu	19.50	Calibration
12	RKM 7.40 to Raceland Canal	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-02 Insitu	20.00	Calibration
13	Raceland Canal to RKM 2.32	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.10	BFOL-01 Insitu	21.00	Calibration
14	RKM 2.32 to Company Canal	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.10	BFOL-01 Insitu	21.00	Calibration

		DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS				
REACH	NAME	K2 OPT	Data Source	a	BKGRND SOD, gmO2/m2/day at 20 deg C	Data Source
1	Thibodaux to Dugas Ditch	11	Texas Equation		0.250	90% Reduction
2	Dugas Ditch to Arpent Canal	11	Texas Equation		0.250	90% Reduction
3	Arpent Canal to Thoroughbred Canal	11	Texas Equation		0.125	90% Reduction
4	Thoroughbred Canal to RKM 24.66	11	Texas Equation		0.313	90% Reduction
5	RKM 24.66 to St. Charles	11	Texas Equation		0.500	90% Reduction
6	St. Charles to RKM 19.28	11	Texas Equation		0.738	90% Reduction
7	RKM 19.28 to RKM 16.28	11	Texas Equation		0.738	90% Reduction
8	RKM 16.28 to Bayou Folse	11	Texas Equation		0.738	90% Reduction
9	Theriot Canal to RKM 12.3	11	Texas Equation		0.738	90% Reduction
10	RKM 12.3 to RKM 10.20	11	Texas Equation		0.688	90% Reduction
11	RKM 10.20 to RKM 7.40	11	Texas Equation		0.250	90% Reduction
12	RKM 7.40 to Raceland Canal	11	Texas Equation		0.250	90% Reduction
13	Raceland Canal to RKM 2.32	11	Texas Equation		0.738	90% Reduction
14	RKM 2.32 to Company Canal	11	Texas Equation		0.738	90% Reduction

		0							
		DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS							
REACH	NAME	Aerobic BOD1 Dec Rate (1/day)	Data Source	BOD1 SETT RATE (1/day)	Data Source	Aerobic BOD2 Dec Rate (1/day)	Data Source	BOD2 SETT RATE (1/day)	Data Source
1	Thibodaux to Dugas Ditch	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
2	Dugas Ditch to Arpent Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
3	Arpent Canal to Thoroughbred Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
4	Thoroughbred Canal to RKM 24.66	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
5	RKM 24.66 to St. Charles	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
6	St. Charles to RKM 19.28	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
7	RKM 19.28 to RKM 16.28	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
8	RKM 16.28 to Bayou Folse	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
9	Theriot Canal to RKM 12.3	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
10	RKM 12.3 to RKM 10.20	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
11	RKM 10.20 to RKM 7.40	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
12	RKM 7.40 to Raceland Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
13	Raceland Canal to RKM 2.32	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
14	RKM 2.32 to Company Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration

Bayou Folse/Cutoff 120302 Summer Projection Justification					
DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS					
Reach	**Name**	**NBOD decay rate, 1/day**	**Data Source**	**NBOD settling rate, 1/day**	**Data Source**
1	Thibodaux to Dugas Ditch	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
2	Dugas Ditch to Arpent Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
3	Arpent Canal to Thoroughbred Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
4	Thoroughbred Canal to RKM 24.66	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
5	RKM 24.66 to St. Charles	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
6	St. Charles to RKM 19.28	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
7	RKM 19.28 to RKM 16.28	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
8	RKM 16.28 to Bayou Folse	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
9	Theriot Canal to RKM 12.3	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
10	RKM 12.3 to RKM 10.20	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
11	RKM 10.20 to RKM 7.40	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
12	RKM 7.40 to Raceland Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
13	Raceland Canal to RKM 2.32	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
14	RKM 2.32 to Company Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration

Bayou Folse/Cutoff 120302 Summer Projection Justification					
DATA TYPE 19 - NONPOINT SOURCES					
Reach	**Reach Name**	**UCBOD1, kg/day**	**UCBOD2, kg/day**	**NBOD, kg/day**	**Data Source**
1	Thibodaux to Dugas Ditch	1.418	1.182	0.000	90% Reduction
2	Dugas Ditch to Arpent Canal	1.058	0.423	0.000	90% Reduction
3	Arpent Canal to Thoroughbred Canal	0.470	0.251	0.502	90% Reduction
4	Thoroughbred Canal to RKM 24.66	1.785	2.142	0.446	90% Reduction
5	RKM 24.66 to St. Charles	2.846	2.135	0.071	90% Reduction
6	St. Charles to RKM 19.28	1.519	0.127	0.380	90% Reduction
7	RKM 19.28 to RKM 16.28	1.883	0.439	0.377	90% Reduction
8	RKM 16.28 to Bayou Folse	1.139	0.380	0.886	90% Reduction
9	Theriot Canal to RKM 12.3	2.670	0.238	0.811	90% Reduction
10	RKM 12.3 to RKM 10.20	3.004	2.103	0.751	90% Reduction
11	RKM 10.20 to RKM 7.40	5.104	2.552	1.659	90% Reduction
12	RKM 7.40 to Raceland Canal	4.101	1.640	1.599	90% Reduction
13	Raceland Canal to RKM 2.32	1.990	0.663	0.284	90% Reduction
14	RKM 2.32 to Company Canal	1.940	0.600	0.277	90% Reduction

Bayou Folse/Cutoff 120302 Summer Projection Justification									
DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES									
Headwater Name	Element No.	Logical Unit Number	Headwater Flow, cms	Data Source	Temp, deg C	Salinity	Conductivity	Chlorides	Data Source
Bayou Cutoff	1	1	0.3433	1/3 Average Tidal Flow as per regs	30.94	0.22	200.0	8.00	90th percentile temp for WQN 0341 for Temp, Site BCUT-02 - Insitu for Salinity, Lab for Chlorides

Bayou Folse/Cutoff 120302 Summer Projection Justification					
DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN					
Headwater Name	Dissolved Oxygen, mg/L	UCBOD1, mg/l	UCBOD2, mg/l	NBOD, mg/l	Data Source
Bayou Cutoff	6.69	0.74	0.53	0.30	DO is 90% DO Sat for WQN 0341; CBOD1, CBOD2, and NBOD - 90% Reduction

Bayou Folse/Cutoff 120302 Summer Projection Justification					
	DATA TYPES 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES				
Wasteload / Withdrawal Name	**EL #**	**Flow, cms**	**Data Source**	**Temperature, deg C**	**Data Source**
Lafourche SD#1	30	0.00986	Design Flow of 180,000 gpd + MOS	30.00	Per LTP
Dugas Ditch	50	0.00850	Composite Design Flow + MOS	30.00	Per LTP
Grand Marnier	63	0.00463	Design Flow of 84,400 gpd + MOS	30.00	Per LTP
Arpent Canal	93	0.00283	LTP Default	30.94	90th Percentile Temp for WQN 0341
Thoroughbred Ditch	109	0.00275	Design Flow of 50,400 gpd + MOS	30.00	Per LTP

Bayou Folse/Cutoff 120302 Summer Projection Justification

DATA TYPES 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN

Wasteload / Withdrawal Name	EL #	DO, mg/l	UCBOD1, mg/l	UCBOD2, mg/l	UNBOD, mg/l	Data Source
Lafourche SD#1	30	2.00	23.00	0.00	43.00	Permit Limits
Dugas Ditch	50	2.00	33.10	0.00	61.80	Composite Permit Limits
Grand Marnier	63	2.00	23.00	0.00	43.00	Permit Limits
Arpent Canal	93	5.00	0.25	0.13	0.06	DO Standard for Subsegment 120302; CBOD1, CBOD2, and NBOD - 90% Reduction
Thoroughbred Ditch	109	2.00	23.00	0.00	43.00	Permit Limits

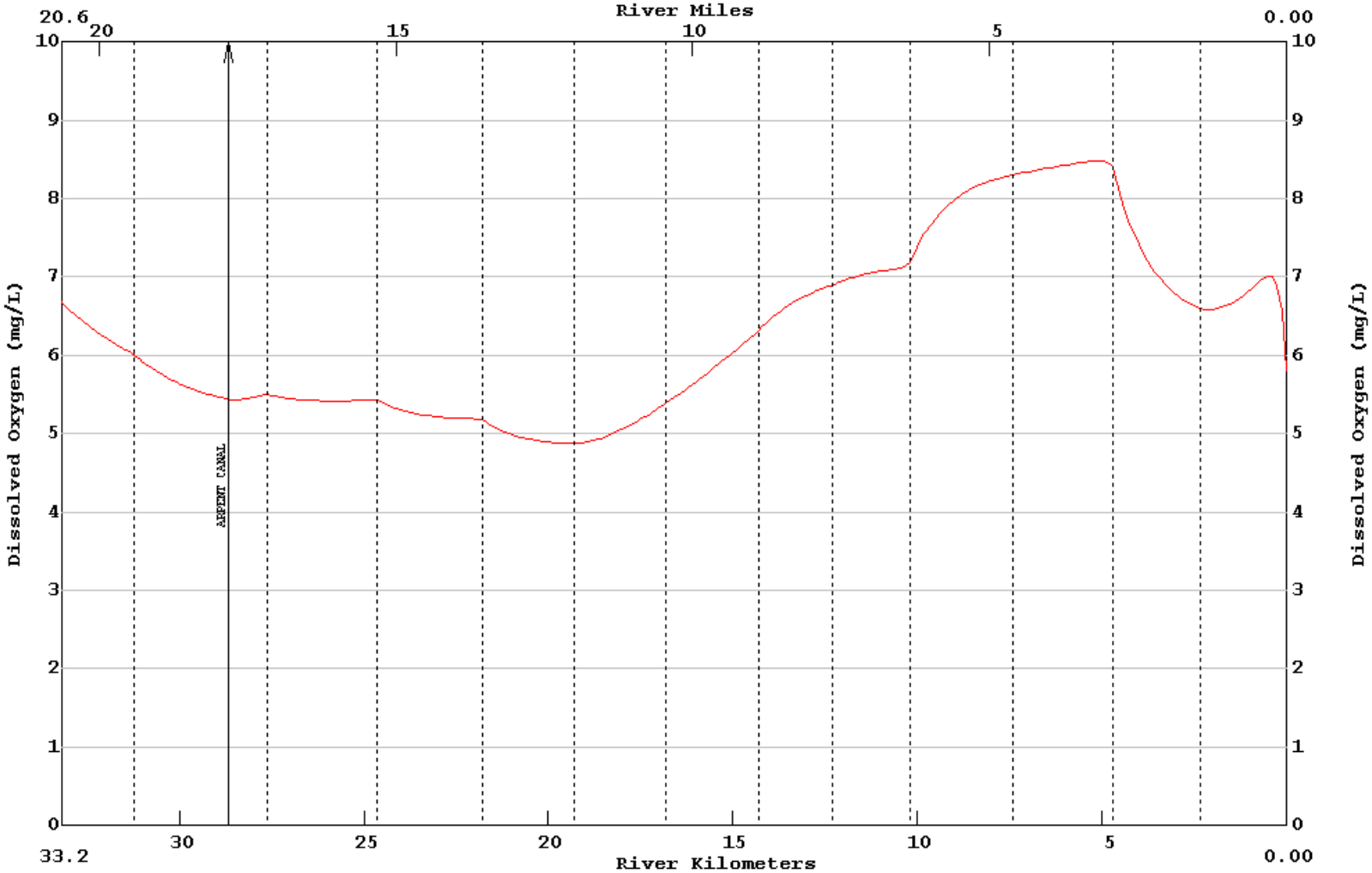
Bayou Folse/Cutoff 120302 Summer Projection Justification

DATA TYPES 27 - LOWER BOUNDARY CONDITIONS

Parameter	Value	Units	Data Source
TEMPERATURE	30.94	^{O}C	90th Percentile Temp for WQN 0341
SALINITY	0.10	ppt	BFOL-01 Insitu
CHLORIDES	16.9	ppm	BFOL-01 Lab Data
CONDUCTIVITY	218.00	umhos/cm	BFOL-01 Insitu
DISSOLVED OXYGEN	5.00	mg/L	DO Standard for subsegment 120302
CBOD1	7.540	mg/L	BFOL-01 Lab Data
CBOD2	3.960	mg/L	BFOL-01 Lab Data
CHLOROPHYLL A	21.0	ug/L	Calibration
NBOD	1.760	mg/L	BFOL-01 Lab Data

Appendix D3 – Summer Output without Dischargers Graphs and Input, Overlay, and Output Files

LA-QUAL Version 8.11 Run at 10:04 on 02/25/2008
WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI min= 4.87 max= 8.48
WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302



Input File for Summer Projection without Dischargers

```
CNTROL01     WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
CNTROL02     WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DISCHARGERS
CNTROL12 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CONDUCTIVITY               IN uS/cm
MODOPT04 YES CONSERVATIVE MATERIAL II = CHLORIDES                  IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07 YES BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT09  NO PHOSPHORUS
MODOPT10  NO CHLOROPHYLL A
MODOPT11  NO MACROPHYTES
MODOPT12  NO COLIFORM
MODOPT13  NO NONCONSERVATIVE MATERIAL
ENDATA02
PROGRAM  DISPERSION EQUATION               =     3.0
PROGRAM  OCEAN EXCHANGE RATIO              =     1.0
PROGRAM  TIDE HEIGHT                       =   0.0426
PROGRAM  TIDAL PERIOD                      =     26.0
PROGRAM  PERIOD OF TIDAL RISE              =     12.0
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  SETTLING RATE UNITS               =     2.
!24 hour wind speed for Houma Weather Station on 6/30/2004
PROGRAM  WIND VELOCITY                     =     0.68
PROGRAM  KL MINIMUM                        =     0.70
ENDATA03
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------**********----------
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!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID   1   BC CUTOFF: THIBODAUX TO DUGAS DITCH    33.20      31.24    0.0400
REACH ID   2   BC CUTOFF: DUGAS DITCH TO ARPENT C     31.24      28.66    0.0600
REACH ID   3   BC CUTOFF: ARPENT TO THOROUGHBRED      28.66      27.62    0.0800
REACH ID   4   BC CUTOFF:THOROUGHBRED TO RKM 24.66    27.62      24.66    0.0800
REACH ID   5   BC CUTOFF: RKM 24.66 TO ST CHAS        24.66      21.78    0.0800
REACH ID   6   BC CUTOFF: ST CHAS TO RKM 19.28        21.78      19.28    0.1000
REACH ID   7   BC CUTOFF: RKm 19.28 TO RKM 16.28      19.28      16.80    0.0800
REACH ID   8   BC CUTOFF: RKM 16.28 TO BAYOU FOLSE    16.80      14.30    0.1000
REACH ID   9   BF FOLSE: THERIOT CANAL TO RKM 12.3    14.30      12.30    0.1000
REACH ID  10   BF FOLSE: RKM 12.30 TO RKM 10.20       12.30      10.20    0.1000
REACH ID  11   BF FOLSE: RKM 10.20 TO RKM 7.40        10.20       7.40    0.2000
REACH ID  12   BF FOLSE: RKM 7.40 TO RACELAND C.       7.40       4.70    0.1500
REACH ID  13   BF FOLSE: RACELAND C. TO RKM 2.32       4.70       2.32    0.1190
REACH ID  14   BF FOLSE: RKM 2.32 TO COMPANY CANAL     2.32       0.00    0.1160
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
!LAQUAL reaches are all less than 3 kilometers long to allow flexibility in varying stream geometry.
!Dugas Ditch, Arpent Canal, and Thoroughbred Ditch are modeled with estimated geometry.
!The rating curves, W=aQ**b+c and D=dQ**e+f are developed from measured cross sections.
!Bayou Cutoff BCUT-01
HYDR-1      1   0.806  1.00    9.52  0.143  1.00    0.50          0.050
!Bayou Cutoff BCUT-02
HYDR-1      2   0.942  1.00   14.26  0.070  1.00    0.96          0.050
!Bayou Cutoff BCUT-03
HYDR-1      3   0.400  1.00   20.31  0.050  1.00    1.18          0.050
!Bayou Cutoff BCUT-03
HYDR-1      4   0.400  1.00   20.31  0.050  1.00    1.18          0.050
!Bayou Cutoff BCUT-04
HYDR-1      5   0.762  1.00   24.38  0.039  1.00    1.28          0.050
!Bayou Cutoff BCUT-06
HYDR-1      6   0.029  1.00   24.55  0.028  1.00    1.41          0.050
!Bayou Cutoff BCUT-06
HYDR-1      7   0.029  1.00   24.55  0.028  1.00    1.41          0.050
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!Bayou Cutoff BCUT-06
HYDR-1      8   0.029  1.00   24.55  0.028  1.00    1.41          0.050
!Bayou Folse  BF-03
HYDR-1      9   0.067  1.00   26.14  0.025  1.00    1.52          0.050
!Bayou Folse  BF-03
HYDR-1     10   0.067  1.00   26.14  0.025  1.00    1.52          0.050
!Bayou Folse  BF-02
HYDR-1     11   0.333  1.00   40.80  0.021  1.00    1.57          0.050
!Bayou Folse  BF-02
HYDR-1     12   0.333  1.00   40.80  0.021  1.00    1.57          0.050
!Bayou Folse  BF-01
HYDR-1     13   0.0    0.0    37.80  0.0    0.00    1.06          0.050
!Bayou Folse  BF-01
HYDR-1     14   0.0    0.0    37.80  0.0    0.00    1.06          0.050
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
! Tidal fraction was obtained from Dynhyd Hydrologic Calibration.
! The equation for tidal fraction for mainstem was determined to be:
! [(0.00015758)*(RKM**2)] - [(0.01573894)*(RKM)] + [1.0]
! Middle of Reach 1 is RKM 32.2
HYDR-2      1  0.657  36.000   0.833    0.0       1.0
! Middle of Reach 3 is RKM 30.0
HYDR-2      2  0.670  36.000   0.833    0.0       1.0
! Middle of Reach 5 is RKM 28.1
HYDR-2      3  0.682  36.000   0.833    0.0       1.0
! Middle of Reach 7 is RKM 26.1
HYDR-2      4  0.697  36.000   0.833    0.0       1.0
! Middle of Reach 8 is RKM 23.2
HYDR-2      5  0.720  36.000   0.833    0.0       1.0
! Middle of Reach 9 is RKM 20.5
HYDR-2      6  0.744  36.000   0.833    0.0       1.0
! Middle of Reach 10 is RKM 18.0
HYDR-2      7  0.768  36.000   0.833    0.0       1.0
! Middle of Reach 11 is RKM 15.4
HYDR-2      8  0.795  36.000   0.833    0.0       1.0
```

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! Middle of Reach 12 is RKM 13.3
HYDR-2      9  0.819  36.000   0.833    0.0       1.0
! Middle of Reach 13 is RKM 11.2
HYDR-2     10  0.843  36.000   0.833    0.0       1.0
! Middle of Reach 14 is RKM 8.8
HYDR-2     11  0.874  36.000   0.833    0.0       1.0
! Middle of Reach is 15 RKM 6.1
HYDR-2     12  0.910  36.000   0.833    0.0       1.0
! Middle of Reach is 16 RKM 3.5
HYDR-2     13  0.947  36.000   0.833    0.0       1.0
! Middle of Reach 17 is RKM 1.2
HYDR-2     14  0.981  36.000   0.833    0.0       1.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO                            CHL A
!CHL A is achieved through calibration.  There are only two sample points on the mainstem.
!The two sample points for CHL A are BCUT-03 and BFOL-03.
!All salinity values are from insitu.
!Temp for all reaches set to 90th percentile temp for WQN 0341
!DO for all reaches is the DO criteria for subsegment 120302
INITIAL     1      30.94   0.22   5.00                            2.0
INITIAL     2      30.94   0.09   5.00                            2.0
INITIAL     3      30.94   0.07   5.00                            2.0
!BCUT-03 for CHL A
INITIAL     4      30.94   0.07   5.00                            3.2
INITIAL     5      30.94   0.12   5.00                            3.5
INITIAL     6      30.94   0.12   5.00                            4.0
INITIAL     7      30.94   0.12   5.00                            5.0
INITIAL     8      30.94   0.09   5.00                           12.0
!BFOL-03 for CHL A
INITIAL     9      30.94   0.09   5.00                           19.2
INITIAL    10      30.94   0.09   5.00                           19.5
INITIAL    11      30.94   0.09   5.00                           19.5
INITIAL    12      30.94   0.09   5.00                           20.0
INITIAL    13      30.94   0.10   5.00                           21.0
INITIAL    14      30.94   0.10   5.00                           21.0
ENDATA11
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!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----******----- ******-------*******-------*******-------*******-------***
!Texas equation was determined to be most suitable for this model.
!Settling rates were determined by calibration.
!Decay rate is the average decay rates of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02,
!BFOL-03, CC-01, CC-02, AND AC-01.
!               REA                          BOD 1  BOD 1 BOD1SET       BOD 2    BOD 2 BOD2SET
!          R#   EQ                       SOD  DECAY  SETT   TO SOD       DECAY    SETT   TO SOD
COEF-1      1   11.0                    0.250  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      2   11.0                    0.250  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      3   11.0                    0.125  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      4   11.0                    0.313  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      5   11.0                    0.500  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      6   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      7   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      8   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      9   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     10   11.0                    0.688  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     11   11.0                    0.250  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     12   11.0                    0.250  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     13   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     14   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
!Settling rates were determined by calibration.
!Decay rate is the average decay rates of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02,
!BFOL-03, CC-01, CC-02, AND AC-01.
COEF-2      1    0.100   0.30
COEF-2      2    0.100   0.30
COEF-2      3    0.100   0.30
COEF-2      4    0.100   0.30
COEF-2      5    0.100   0.30
COEF-2      6    0.100   0.30
```

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COEF-2      7    0.100   0.30
COEF-2      8    0.100   0.30
COEF-2      9    0.100   0.30
COEF-2     10    0.100   0.30
COEF-2     11    0.100   0.30
COEF-2     12    0.100   0.30
COEF-2     13    0.100   0.30
COEF-2     14    0.100   0.30
ENDATA13
ENDATA14
ENDATA15
ENDATA16
ENDATA17
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#     BOD 1    NBOD                                BOD 2
NONPOINT    1     1.418    0.000                               1.182
NONPOINT    2     1.058    0.000                               0.423
NONPOINT    3     0.470    0.502                               0.251
NONPOINT    4     1.785    0.446                               2.142
NONPOINT    5     2.846    0.071                               2.135
NONPOINT    6     1.519    0.380                               0.127
NONPOINT    7     1.883    0.377                               0.439
NONPOINT    8     1.139    0.886                               0.380
NONPOINT    9     2.670    0.811                               0.238
NONPOINT   10     3.004    0.751                               2.103
NONPOINT   11     5.104    1.659                               2.552
NONPOINT   12     4.101    1.599                               1.640
NONPOINT   13     1.990    0.284                               0.663
NONPOINT   14     1.940    0.277                               0.660
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   COND    CHLORIDES
!Bayou Cutoff headwater average flow = 1.03 cms
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!As per regs projection flow = 1/3 avg tidal flow = 0.3433 cms
!BCUT-01 Temp = 90th percentile temp for WQN 0341
!Insitu for Conductivity and Salinity, Lab for Chlorides
HDWTR-1     1  BAYOU CUTOFF             0.343300  30.940    0.22   200.0     8.0
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD                      BOD 2
!BCUT-01 DO = 90% DO Sat for WQN 0341 Lab for BOD1, BOD2, and NBOD.
HDWTR-2     1       6.69     0.74     0.30                       0.53
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#             CHL A
HDWTR-3     1                 0.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------********---------********---------********
!          E#     NAME               FLOW      TEMP   SALINITY   COND  CHLORIDES
!Dugas Ditch
WSTLD-1    93  ARPENT CANAL        0.00283   30.94
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD                            BOD 2
WSTLD-2    93        2.0    0.25          0.13
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
```

```
!          E#            CHL A
WSTLD-3    93
ENDATA26
!90th Percentile Temp for WQN 0341
LOWER BC TEMPERATURE                        =  30.94
!BFOL-01 Insitu
LOWER BC SALINITY                           =   0.10
!BFOL-01 Insitu
LOWER BC CONSERVATIVE MATERIAL I            = 218.00
!BFOL-01 Lab Data
LOWER BC CONSERVATIVE MATERIAL II           =  16.90
!DO Criteria for subsegment 120302
LOWER BC DISSOLVED OXYGEN                   =   5.00
!BFOL-01 Lab Data
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =   7.54
!BFOL-01 Lab Data
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =   3.96
!BFOL-01 Lab Data
LOWER BC NBOD                               =   1.76
!Calibration
LOWER BC CHLOROPHYLL A                      =  21.00
ENDATA27
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
ENDATA30
ENDATA31
```

Output file for Summer Projection without Dischargers

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

Input file is O:\Personal_Folders\Karen\Bayou Folse via Karen\Input Files\Folsesum90_and_no_dischargers.txt
Output produced at 10:04 on 02/25/2008

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

CARD TYPE       CONTROL TITLES

TITLE01         WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
```

```
TITLE02         WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI
CNTROL12  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CONDUCTIVITY               IN uS/cm
MODOPT04  YES   CONSERVATIVE MATERIAL II = CHLORIDES                  IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07  YES   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT09   NO   PHOSPHORUS
MODOPT10   NO   CHLOROPHYLL A
MODOPT11   NO   MACROPHYTES
MODOPT12   NO   COLIFORM
MODOPT13   NO   NONCONSERVATIVE MATERIAL
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

PROGRAM         DISPERSION EQUATION               =         3.00000 (values entered as a function of D,Q,Vmean)
PROGRAM         OCEAN EXCHANGE RATIO              =         1.00000
PROGRAM         TIDE HEIGHT                       =         0.04260 meters
PROGRAM         TIDAL PERIOD                      =        26.00000 hours
PROGRAM         PERIOD OF TIDAL RISE              =        12.00000 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)
PROGRAM         WIND VELOCITY                     =         0.68000 meters/sec
PROGRAM         KL MINIMUM                        =         0.70000 meters/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   BC  CUTOFF: THIBODAUX TO DUGAS DITCH     33.20  TO   31.24   0.0400     1.96      49        1     49
REACH ID      2   BC  CUTOFF: DUGAS DITCH TO ARPENT C      31.24  TO   28.66   0.0600     2.58      43       50     92
REACH ID      3   BC  CUTOFF: ARPENT TO THOROUGHBRED       28.66  TO   27.62   0.0800     1.04      13       93    105
REACH ID      4   BC  CUTOFF:THOROUGHBRED TO RKM 24.66     27.62  TO   24.66   0.0800     2.96      37      106    142
REACH ID      5   BC  CUTOFF: RKM 24.66 TO ST CHAS         24.66  TO   21.78   0.0800     2.88      36      143    178
REACH ID      6   BC  CUTOFF: ST CHAS TO RKM 19.28         21.78  TO   19.28   0.1000     2.50      25      179    203
REACH ID      7   BC  CUTOFF: RKm 19.28 TO RKM 16.28       19.28  TO   16.80   0.0800     2.48      31      204    234
REACH ID      8   BC  CUTOFF: RKM 16.28 TO BAYOU FOLSE     16.80  TO   14.30   0.1000     2.50      25      235    259
REACH ID      9   BF  FOLSE: THERIOT CANAL TO RKM 12.3     14.30  TO   12.30   0.1000     2.00      20      260    279
REACH ID     10   BF  FOLSE: RKM 12.30 TO RKM 10.20        12.30  TO   10.20   0.1000     2.10      21      280    300
REACH ID     11   BF  FOLSE: RKM 10.20 TO RKM 7.40         10.20  TO    7.40   0.2000     2.80      14      301    314
REACH ID     12   BF  FOLSE: RKM 7.40 TO RACELAND C.        7.40  TO    4.70   0.1500     2.70      18      315    332
REACH ID     13   BF  FOLSE: RACELAND C. TO RKM 2.32        4.70  TO    2.32   0.1190     2.38      20      333    352
REACH ID     14   BF  FOLSE: RKM 2.32 TO COMPANY CANAL      2.32  TO    0.00   0.1160     2.32      20      353    372
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"

 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  1
HYDR-1        1   BC       0.806       1.000       9.520       0.143       1.000       0.500     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  2
HYDR-1        2   BC       0.942       1.000      14.260       0.070       1.000       0.960     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  3
HYDR-1        3   BC       0.400       1.000      20.310       0.050       1.000       1.180     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  4
HYDR-1        4   BC       0.400       1.000      20.310       0.050       1.000       1.180     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  5
HYDR-1        5   BC       0.762       1.000      24.380       0.039       1.000       1.280     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  6
HYDR-1        6   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  7
HYDR-1        7   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  8
HYDR-1        8   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  9
HYDR-1        9   BF       0.067       1.000      26.140       0.025       1.000       1.520     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 10
HYDR-1       10   BF       0.067       1.000      26.140       0.025       1.000       1.520     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 11
HYDR-1       11   BF       0.333       1.000      40.800       0.021       1.000       1.570     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 12
HYDR-1       12   BF       0.333       1.000      40.800       0.021       1.000       1.570     0.00000   0.050
HYDR-1       13   BF       0.000       0.000      37.800       0.000       0.000       1.060     0.00000   0.050
HYDR-1       14   BF       0.000       0.000      37.800       0.000       0.000       1.060     0.00000   0.050
ENDATA09
```

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

CARD TYPE	REACH	ID	TIDAL RANGE	DISPERSION "A"	DISPERSION "B"	DISPERSION "C"	DISPERSION "D"
HYDR	1	BC	0.66	36.000	0.833	0.000	1.000
HYDR	2	BC	0.67	36.000	0.833	0.000	1.000
HYDR	3	BC	0.68	36.000	0.833	0.000	1.000
HYDR	4	BC	0.70	36.000	0.833	0.000	1.000
HYDR	5	BC	0.72	36.000	0.833	0.000	1.000
HYDR	6	BC	0.74	36.000	0.833	0.000	1.000
HYDR	7	BC	0.77	36.000	0.833	0.000	1.000
HYDR	8	BC	0.80	36.000	0.833	0.000	1.000
HYDR	9	BF	0.82	36.000	0.833	0.000	1.000
HYDR	10	BF	0.84	36.000	0.833	0.000	1.000
HYDR	11	BF	0.87	36.000	0.833	0.000	1.000
HYDR	12	BF	0.91	36.000	0.833	0.000	1.000
HYDR	13	BF	0.95	36.000	0.833	0.000	1.000
HYDR	14	BF	0.98	36.000	0.833	0.000	1.000

ENDATA10

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

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	BC	30.90	40.22	5.00	0.00	0.00	0.00	2.00	0.00
INITIAL	2	BC	30.90	40.09	5.00	0.00	0.00	0.00	2.00	0.00
INITIAL	3	BC	30.90	40.07	5.00	0.00	0.00	0.00	2.00	0.00
INITIAL	4	BC	30.90	40.07	5.00	0.00	0.00	0.00	3.20	0.00
INITIAL	5	BC	30.90	40.12	5.00	0.00	0.00	0.00	3.50	0.00
INITIAL	6	BC	30.90	40.12	5.00	0.00	0.00	0.00	4.00	0.00
INITIAL	7	BC	30.90	40.12	5.00	0.00	0.00	0.00	5.00	0.00
INITIAL	8	BC	30.90	40.09	5.00	0.00	0.00	0.00	12.00	0.00
INITIAL	9	BF	30.90	40.09	5.00	0.00	0.00	0.00	19.20	0.00
INITIAL	10	BF	30.90	40.09	5.00	0.00	0.00	0.00	19.50	0.00
INITIAL	11	BF	30.90	40.09	5.00	0.00	0.00	0.00	19.50	0.00
INITIAL	12	BF	30.90	40.09	5.00	0.00	0.00	0.00	20.00	0.00
INITIAL	13	BF	30.90	40.10	5.00	0.00	0.00	0.00	21.00	0.00
INITIAL	14	BF	30.90	40.10	5.00	0.00	0.00	0.00	21.00	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	BC	11 TEXAS	0.000	0.000	0.000	0.250	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	2	BC	11 TEXAS	0.000	0.000	0.000	0.250	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	3	BC	11 TEXAS	0.000	0.000	0.000	0.125	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	4	BC	11 TEXAS	0.000	0.000	0.000	0.313	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	5	BC	11 TEXAS	0.000	0.000	0.000	0.500	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	6	BC	11 TEXAS	0.000	0.000	0.000	0.738	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	7	BC	11 TEXAS	0.000	0.000	0.000	0.738	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	8	BC	11 TEXAS	0.000	0.000	0.000	0.738	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	9	BF	11 TEXAS	0.000	0.000	0.000	0.738	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	10	BF	11 TEXAS	0.000	0.000	0.000	0.688	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000

```
COEF-1    11   BF  11 TEXAS            0.000     0.000     0.000     0.250     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    12   BF  11 TEXAS            0.000     0.000     0.000     0.250     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    13   BF  11 TEXAS            0.000     0.000     0.000     0.738     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    14   BF  11 TEXAS            0.000     0.000     0.000     0.738     0.118     0.200     1.000     0.000     0.031     0.200     1.000     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   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           2   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           3   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           4   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           5   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           6   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           7   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           8   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           9   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          10   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          11   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          12   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          13   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          14   BF       0.100     0.300     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

ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

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  BC        1.42      0.00      0.00      0.00      0.00      1.18
NONPOINT           2  BC        1.06      0.00      0.00      0.00      0.00      0.42
NONPOINT           3  BC        0.47      0.50      0.00      0.00      0.00      0.25
NONPOINT           4  BC        1.78      0.45      0.00      0.00      0.00      2.14
NONPOINT           5  BC        2.85      0.07      0.00      0.00      0.00      2.13
NONPOINT           6  BC        1.52      0.38      0.00      0.00      0.00      0.13
NONPOINT           7  BC        1.88      0.38      0.00      0.00      0.00      0.44
NONPOINT           8  BC        1.14      0.89      0.00      0.00      0.00      0.38
NONPOINT           9  BF        2.67      0.81      0.00      0.00      0.00      0.24
NONPOINT          10  BF        3.00      0.75      0.00      0.00      0.00      2.10
NONPOINT          11  BF        5.10      1.66      0.00      0.00      0.00      2.55
NONPOINT          12  BF        4.10      1.60      0.00      0.00      0.00      1.64
NONPOINT          13  BF        1.99      0.28      0.00      0.00      0.00      0.66
NONPOINT          14  BF        1.94      0.28      0.00      0.00      0.00      0.66
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     uS/cm      MG/L

HDWTR-1           1     BAYOU CUTOFF            0   0.34330   12.122   30.94     0.22   200.000     8.000   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 CUTOFF              6.69      0.74      0.30      0.00      0.00      0.53
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

HDWTR-3           1     BAYOU CUTOFF              0.00      0.00      0.00      0.00
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

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     uS/cm      MG/L

WSTLD-1       93      28.66  ARPENT CANAL        0.00283    0.09993    0.065   30.94     0.00     0.000     0.000
```

```
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          93     ARPENT CANAL                2.00      0.25      0.00      0.13      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

WSTLD-3          93     ARPENT CANAL                0.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     30.940     deg C
LOWER BC     SALINITY                          =      0.100     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =    218.000     uS/cm
LOWER BC     CONSERVATIVE MATERIAL II          =     16.900     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      5.000     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND    =      7.540     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND    =      3.960     mg/L
LOWER BC     NBOD                              =      1.760     mg/L
LOWER BC     CHLOROPHYLL A                     =     21.000     µg/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

ENDATA29

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


NUMBER OF PLOTS =  1
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
ENDATA30

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


ENDATA31
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.....NO ERRORS DETECTED IN INPUT DATA
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN   5 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
.....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
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FINAL REPORT BAYOU CUTOFF — WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 1 CUTOFF: THIBODAUX TO DUGAS DITCH — WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
1	HDWTR	0.34330	30.94	0.22	200.00	8.00	6.69	0.74	0.53	0.74	0.53	0.30	0.00	0.00	0.00	2.00	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
1	33.20	33.16	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	10.97	0.000	1.394	0.064
2	33.16	33.12	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	21.94	0.000	1.394	0.064
3	33.12	33.08	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	32.90	0.000	1.394	0.064
4	33.08	33.04	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	43.87	0.000	1.394	0.064
5	33.04	33.00	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	54.84	0.000	1.394	0.064
6	33.00	32.96	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	65.81	0.000	1.394	0.064
7	32.96	32.92	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	76.77	0.000	1.394	0.064
8	32.92	32.88	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	87.74	0.000	1.394	0.064
9	32.88	32.84	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	98.71	0.000	1.394	0.064
10	32.84	32.80	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	109.68	0.000	1.394	0.064
11	32.80	32.76	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	120.64	0.000	1.394	0.064
12	32.76	32.72	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	131.61	0.001	1.394	0.064
13	32.72	32.68	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	142.58	0.001	1.394	0.064
14	32.68	32.64	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	153.55	0.001	1.394	0.064
15	32.64	32.60	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	164.52	0.001	1.394	0.064
16	32.60	32.56	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	175.48	0.001	1.394	0.064
17	32.56	32.52	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	186.45	0.001	1.394	0.064
18	32.52	32.48	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	197.42	0.001	1.394	0.064
19	32.48	32.44	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	208.39	0.001	1.394	0.064
20	32.44	32.40	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	219.35	0.001	1.394	0.064
21	32.40	32.36	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	230.32	0.001	1.394	0.064
22	32.36	32.32	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	241.29	0.001	1.394	0.064
23	32.32	32.28	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	252.26	0.001	1.394	0.064
24	32.28	32.24	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	263.22	0.001	1.394	0.064
25	32.24	32.20	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	274.19	0.001	1.394	0.064
26	32.20	32.16	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	285.16	0.001	1.394	0.064
27	32.16	32.12	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	296.13	0.001	1.394	0.064
28	32.12	32.08	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	307.10	0.001	1.394	0.064
29	32.08	32.04	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	318.06	0.001	1.394	0.064
30	32.04	32.00	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	329.03	0.001	1.394	0.064

31	32.00	31.96	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	340.00	0.001	1.394	0.064
32	31.96	31.92	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	350.97	0.001	1.394	0.064
33	31.92	31.88	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	361.93	0.001	1.394	0.064
34	31.88	31.84	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	372.90	0.001	1.394	0.064
35	31.84	31.80	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	383.87	0.002	1.394	0.064
36	31.80	31.76	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	394.84	0.002	1.394	0.064
37	31.76	31.72	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	405.80	0.002	1.394	0.064
38	31.72	31.68	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	416.77	0.002	1.394	0.064
39	31.68	31.64	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	427.74	0.002	1.394	0.064
40	31.64	31.60	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	438.71	0.002	1.394	0.064
41	31.60	31.56	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	449.67	0.002	1.394	0.064
42	31.56	31.52	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	460.64	0.002	1.394	0.064
43	31.52	31.48	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	471.61	0.002	1.394	0.064
44	31.48	31.44	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	482.58	0.002	1.394	0.064
45	31.44	31.40	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	493.55	0.002	1.394	0.064
46	31.40	31.36	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	504.51	0.002	1.394	0.064
47	31.36	31.32	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	515.48	0.002	1.394	0.064
48	31.32	31.28	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	526.45	0.002	1.394	0.064
49	31.28	31.24	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	537.42	0.002	1.394	0.064
TOT						0.36			10543.41	19201.53					
AVG					0.0638		0.55	9.80			5.38				
CUM						0.36									

********** 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
1	33.160	5.97	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
2	33.120	5.97	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
3	33.080	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
4	33.040	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
5	33.000	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
6	32.960	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
7	32.920	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
8	32.880	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.68	0.68	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
9	32.840	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
10	32.800	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
11	32.760	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
12	32.720	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
13	32.680	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
14	32.640	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
15	32.600	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
16	32.560	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
17	32.520	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
18	32.480	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
19	32.440	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
20	32.400	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
21	32.360	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
22	32.320	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
23	32.280	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
24	32.240	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
25	32.200	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
26	32.160	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
27	32.120	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00

28	32.080	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
29	32.040	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
30	32.000	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
31	31.960	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
32	31.920	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
33	31.880	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
34	31.840	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
35	31.800	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
36	31.760	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
37	31.720	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
38	31.680	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
39	31.640	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
40	31.600	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
41	31.560	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
42	31.520	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
43	31.480	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
44	31.440	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
45	31.400	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
46	31.360	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
47	31.320	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
48	31.280	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.67	0.67	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
49	31.240	5.98	1.86	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.66	0.66	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.55	0.12	0.20	0.00	0.03	0.20	0.00	0.25			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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	33.160	30.90	40.22	200.00	8.00	6.66	0.74	0.53	0.74	0.53	0.30	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
2	33.120	30.90	40.21	200.00	8.00	6.64	0.74	0.53	0.74	0.53	0.30	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
3	33.080	30.90	40.21	200.00	8.00	6.62	0.73	0.53	0.73	0.53	0.30	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
4	33.040	30.90	40.21	200.00	8.00	6.61	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
5	33.000	30.90	40.21	200.00	8.00	6.59	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
6	32.960	30.90	40.20	200.00	8.00	6.57	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
7	32.920	30.90	40.20	200.00	8.00	6.56	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
8	32.880	30.90	40.20	200.00	8.00	6.54	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
9	32.840	30.90	40.20	200.00	8.00	6.52	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
10	32.800	30.90	40.19	200.00	8.00	6.51	0.72	0.53	0.72	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
11	32.760	30.90	40.19	200.00	8.00	6.49	0.72	0.53	0.72	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
12	32.720	30.90	40.19	200.00	8.00	6.47	0.72	0.53	0.72	0.53	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
13	32.680	30.90	40.19	200.00	8.00	6.46	0.72	0.52	0.72	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
14	32.640	30.90	40.18	200.00	8.00	6.44	0.72	0.52	0.72	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
15	32.600	30.90	40.18	200.00	8.00	6.43	0.72	0.52	0.72	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
16	32.560	30.90	40.18	200.00	8.00	6.41	0.72	0.52	0.72	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
17	32.520	30.90	40.17	200.00	8.00	6.40	0.72	0.52	0.72	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
18	32.480	30.90	40.17	200.00	8.00	6.38	0.71	0.52	0.71	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
19	32.440	30.90	40.17	200.00	8.00	6.37	0.71	0.52	0.71	0.52	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
20	32.400	30.90	40.17	200.00	8.00	6.35	0.71	0.52	0.71	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
21	32.360	30.90	40.16	200.00	8.00	6.34	0.71	0.52	0.71	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
22	32.320	30.90	40.16	200.00	8.00	6.33	0.71	0.52	0.71	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
23	32.280	30.90	40.16	200.00	8.00	6.31	0.71	0.52	0.71	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
24	32.240	30.90	40.16	200.00	8.00	6.30	0.71	0.52	0.71	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
25	32.200	30.90	40.15	200.00	8.00	6.29	0.70	0.52	0.70	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

26	32.160	30.90	40.15	200.00	8.00	6.27	0.70	0.52	0.70	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
27	32.120	30.90	40.15	200.00	8.00	6.26	0.70	0.52	0.70	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
28	32.080	30.90	40.15	200.00	8.00	6.25	0.70	0.52	0.70	0.52	0.27	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
29	32.040	30.90	40.14	200.00	8.00	6.23	0.70	0.52	0.70	0.52	0.26	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
30	32.000	30.90	40.14	200.00	8.00	6.22	0.70	0.52	0.70	0.52	0.26	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
31	31.960	30.90	40.14	200.00	8.00	6.21	0.70	0.52	0.70	0.52	0.26	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
32	31.920	30.90	40.14	200.00	8.00	6.20	0.70	0.52	0.70	0.52	0.26	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
33	31.880	30.90	40.13	200.00	8.00	6.19	0.69	0.52	0.69	0.52	0.26	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
34	31.840	30.90	40.13	200.00	8.00	6.17	0.69	0.52	0.69	0.52	0.26	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
35	31.800	30.90	40.13	200.00	8.00	6.16	0.69	0.52	0.69	0.52	0.26	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
36	31.760	30.90	40.12	200.00	8.00	6.15	0.69	0.52	0.69	0.52	0.26	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
37	31.720	30.90	40.12	200.00	8.00	6.14	0.69	0.52	0.69	0.52	0.26	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
38	31.680	30.90	40.12	200.00	8.00	6.13	0.69	0.52	0.69	0.52	0.25	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
39	31.640	30.90	40.12	200.00	8.00	6.12	0.69	0.52	0.69	0.52	0.25	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
40	31.600	30.90	40.11	200.00	8.00	6.11	0.68	0.52	0.68	0.52	0.25	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
41	31.560	30.90	40.11	200.00	8.00	6.10	0.68	0.52	0.68	0.52	0.25	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
42	31.520	30.90	40.11	200.00	8.00	6.09	0.68	0.51	0.68	0.51	0.25	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
43	31.480	30.90	40.11	200.00	8.00	6.07	0.68	0.51	0.68	0.51	0.25	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
44	31.440	30.90	40.10	200.00	8.00	6.06	0.68	0.51	0.68	0.51	0.25	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
45	31.400	30.90	40.10	200.00	8.00	6.05	0.68	0.51	0.68	0.51	0.25	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
46	31.360	30.90	40.10	200.00	8.00	6.04	0.68	0.51	0.68	0.51	0.25	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
47	31.320	30.90	40.10	200.00	8.00	6.03	0.68	0.51	0.68	0.51	0.24	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
48	31.280	30.90	40.09	200.00	8.00	6.02	0.67	0.51	0.67	0.51	0.24	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
49	31.240	30.90	40.09	200.00	8.00	6.01	0.67	0.51	0.67	0.51	0.24	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 2 CUTOFF: DUGAS DITCH TO ARPENT C WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
50	UPR RCH	0.34330	30.90	40.09	200.00	8.00	6.01	0.67	0.51	0.67	0.51	0.24	0.00	0.00	0.00	2.00	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
50	31.24	31.18	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	562.39	0.001	0.850	0.024
51	31.18	31.12	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	587.37	0.001	0.850	0.024
52	31.12	31.06	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	612.34	0.001	0.850	0.024
53	31.06	31.00	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	637.31	0.001	0.850	0.024
54	31.00	30.94	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	662.29	0.001	0.850	0.024
55	30.94	30.88	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	687.26	0.001	0.850	0.024
56	30.88	30.82	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	712.24	0.001	0.850	0.024
57	30.82	30.76	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	737.21	0.001	0.850	0.024
58	30.76	30.70	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	762.19	0.001	0.850	0.024
59	30.70	30.64	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	787.16	0.001	0.850	0.024
60	30.64	30.58	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	812.13	0.001	0.850	0.024
61	30.58	30.52	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	837.11	0.001	0.850	0.024
62	30.52	30.46	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	862.08	0.001	0.850	0.024
63	30.46	30.40	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	887.06	0.001	0.850	0.024

64	30.40	30.34	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	912.03	0.001	0.850	0.024
65	30.34	30.28	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	937.01	0.001	0.850	0.024
66	30.28	30.22	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	961.98	0.001	0.850	0.024
67	30.22	30.16	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	986.95	0.001	0.850	0.024
68	30.16	30.10	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1011.93	0.002	0.850	0.024
69	30.10	30.04	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1036.90	0.002	0.850	0.024
70	30.04	29.98	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1061.88	0.002	0.850	0.024
71	29.98	29.92	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1086.85	0.002	0.850	0.024
72	29.92	29.86	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1111.83	0.002	0.850	0.024
73	29.86	29.80	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1136.80	0.002	0.850	0.024
74	29.80	29.74	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1161.78	0.002	0.850	0.024
75	29.74	29.68	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1186.75	0.002	0.850	0.024
76	29.68	29.62	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1211.72	0.002	0.850	0.024
77	29.62	29.56	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1236.70	0.002	0.850	0.024
78	29.56	29.50	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1261.67	0.002	0.850	0.024
79	29.50	29.44	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1286.65	0.002	0.850	0.024
80	29.44	29.38	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1311.62	0.002	0.850	0.024
81	29.38	29.32	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1336.60	0.002	0.850	0.024
82	29.32	29.26	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1361.57	0.002	0.850	0.024
83	29.26	29.20	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1386.54	0.002	0.850	0.024
84	29.20	29.14	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1411.52	0.002	0.850	0.024
85	29.14	29.08	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1436.49	0.002	0.850	0.024
86	29.08	29.02	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1461.47	0.002	0.850	0.024
87	29.02	28.96	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1486.44	0.002	0.850	0.024
88	28.96	28.90	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1511.42	0.002	0.850	0.024
89	28.90	28.84	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1536.39	0.002	0.850	0.024
90	28.84	28.78	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1561.37	0.002	0.850	0.024
91	28.78	28.72	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1586.34	0.002	0.850	0.024
92	28.72	28.66	0.34330	0.0	0.02392	0.03	0.98	14.58	861.03	875.00	14.35	1611.31	0.002	0.850	0.024
TOT						1.25			37024.32	37625.15					
AVG					0.0239		0.98	14.58			14.35				
CUM						1.60									

********** 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
50	31.180	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.79	0.79	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
51	31.120	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.79	0.79	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
52	31.060	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.79	0.79	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
53	31.000	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.79	0.79	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
54	30.940	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.78	0.78	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
55	30.880	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.78	0.78	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
56	30.820	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.78	0.78	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
57	30.760	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.77	0.77	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
58	30.700	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.77	0.77	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
59	30.640	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.77	0.77	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
60	30.580	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.77	0.77	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
61	30.520	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.76	0.76	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
62	30.460	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.76	0.76	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
63	30.400	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.76	0.76	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
64	30.340	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
65	30.280	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
66	30.220	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00

67	30.160	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.75	0.75	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
68	30.100	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.74	0.74	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
69	30.040	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.74	0.74	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
70	29.980	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.74	0.74	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
71	29.920	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.74	0.74	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
72	29.860	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.73	0.73	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
73	29.800	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.73	0.73	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
74	29.740	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.73	0.73	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
75	29.680	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.73	0.73	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
76	29.620	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.73	0.73	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
77	29.560	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.72	0.72	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
78	29.500	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.72	0.72	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
79	29.440	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.72	0.72	0.20	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
80	29.380	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.72	0.72	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
81	29.320	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.71	0.71	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
82	29.260	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.71	0.71	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
83	29.200	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.71	0.71	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
84	29.140	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.71	0.71	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
85	29.080	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.71	0.71	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
86	29.020	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.70	0.70	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
87	28.960	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.70	0.70	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
88	28.900	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.70	0.70	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
89	28.840	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.70	0.70	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
90	28.780	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.70	0.70	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
91	28.720	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.69	0.69	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
92	28.660	5.98	0.85	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.69	0.69	0.19	0.39	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.71	0.12	0.20	0.00	0.03	0.20	0.00	0.25			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
50	31.180	30.90	40.09	200.00	8.00	5.98	0.66	0.51	0.66	0.51	0.24	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
51	31.120	30.90	40.09	200.00	8.00	5.96	0.65	0.50	0.65	0.50	0.23	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
52	31.060	30.90	40.09	200.00	8.00	5.94	0.65	0.50	0.65	0.50	0.23	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
53	31.000	30.90	40.09	200.00	8.00	5.91	0.64	0.49	0.64	0.49	0.23	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
54	30.940	30.90	40.09	200.00	8.00	5.89	0.63	0.49	0.63	0.49	0.22	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
55	30.880	30.90	40.09	200.00	8.00	5.87	0.62	0.49	0.62	0.49	0.22	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
56	30.820	30.90	40.09	200.00	8.00	5.85	0.62	0.48	0.62	0.48	0.21	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
57	30.760	30.90	40.09	200.00	8.00	5.83	0.61	0.48	0.61	0.48	0.21	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
58	30.700	30.90	40.09	200.00	8.00	5.81	0.60	0.47	0.60	0.47	0.21	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
59	30.640	30.90	40.09	200.00	8.00	5.80	0.60	0.47	0.60	0.47	0.20	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
60	30.580	30.90	40.08	200.00	8.00	5.78	0.59	0.47	0.59	0.47	0.20	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
61	30.520	30.90	40.08	200.00	8.00	5.76	0.58	0.46	0.58	0.46	0.20	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
62	30.460	30.90	40.08	200.00	8.00	5.74	0.58	0.46	0.58	0.46	0.19	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
63	30.400	30.90	40.08	200.00	8.00	5.73	0.57	0.45	0.57	0.45	0.19	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
64	30.340	30.90	40.08	200.00	8.00	5.71	0.56	0.45	0.56	0.45	0.19	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
65	30.280	30.90	40.08	200.00	8.00	5.70	0.56	0.45	0.56	0.45	0.18	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
66	30.220	30.90	40.08	200.00	8.00	5.68	0.55	0.44	0.55	0.44	0.18	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
67	30.160	30.90	40.08	200.00	8.00	5.67	0.54	0.44	0.54	0.44	0.18	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
68	30.100	30.90	40.08	200.00	8.00	5.66	0.54	0.44	0.54	0.44	0.18	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
69	30.040	30.90	40.08	200.00	8.00	5.64	0.53	0.43	0.53	0.43	0.17	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
70	29.980	30.90	40.08	200.00	8.00	5.63	0.52	0.43	0.52	0.43	0.17	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

71	29.920	30.90	40.08	200.00	8.00	5.62	0.52	0.43	0.52	0.43	0.17	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
72	29.860	30.90	40.08	200.00	8.00	5.61	0.51	0.42	0.51	0.42	0.16	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
73	29.800	30.90	40.08	200.00	8.00	5.59	0.51	0.42	0.51	0.42	0.16	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
74	29.740	30.90	40.08	200.00	8.00	5.58	0.50	0.42	0.50	0.42	0.16	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
75	29.680	30.90	40.08	200.00	8.00	5.57	0.50	0.41	0.50	0.41	0.16	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
76	29.620	30.90	40.08	200.00	8.00	5.56	0.49	0.41	0.49	0.41	0.15	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
77	29.560	30.90	40.08	200.00	8.00	5.55	0.48	0.41	0.48	0.41	0.15	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
78	29.500	30.90	40.08	200.00	8.00	5.54	0.48	0.40	0.48	0.40	0.15	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
79	29.440	30.90	40.08	200.00	8.00	5.53	0.47	0.40	0.47	0.40	0.15	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
80	29.380	30.90	40.08	200.00	8.00	5.52	0.47	0.40	0.47	0.40	0.14	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
81	29.320	30.90	40.08	200.00	8.00	5.52	0.46	0.39	0.46	0.39	0.14	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
82	29.260	30.90	40.07	200.00	8.00	5.51	0.46	0.39	0.46	0.39	0.14	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
83	29.200	30.90	40.07	200.00	8.00	5.50	0.45	0.39	0.45	0.39	0.14	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
84	29.140	30.90	40.07	200.00	8.00	5.49	0.45	0.38	0.45	0.38	0.13	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
85	29.080	30.90	40.07	200.00	8.00	5.48	0.44	0.38	0.44	0.38	0.13	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
86	29.020	30.90	40.07	200.00	8.00	5.48	0.44	0.38	0.44	0.38	0.13	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
87	28.960	30.90	40.07	200.00	8.00	5.47	0.43	0.37	0.43	0.37	0.13	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
88	28.900	30.90	40.07	199.99	8.00	5.46	0.43	0.37	0.43	0.37	0.13	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
89	28.840	30.90	40.07	199.97	8.00	5.46	0.42	0.37	0.42	0.37	0.12	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
90	28.780	30.90	40.07	199.92	8.00	5.45	0.42	0.36	0.42	0.36	0.12	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
91	28.720	30.90	40.07	199.78	7.99	5.44	0.41	0.36	0.41	0.36	0.12	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
92	28.660	30.90	40.07	199.41	7.98	5.44	0.41	0.36	0.41	0.36	0.12	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 3 CUTOFF: ARPENT TO THOROUGHBRED WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
93	UPR RCH	0.34330	30.90	40.07	199.41	7.98	5.44	0.41	0.36	0.41	0.36	0.12	0.00	0.00	0.00	2.00	0.00	0.00
93	WSTLD	0.00283	30.94	0.00	0.00	0.00	2.00	0.25	0.00	0.25	0.00	0.13	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
93	28.66	28.58	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	1658.84	0.001	0.591	0.014
94	28.58	28.50	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	1706.37	0.001	0.591	0.014
95	28.50	28.42	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	1753.90	0.002	0.591	0.014
96	28.42	28.34	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	1801.42	0.002	0.591	0.014
97	28.34	28.26	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	1848.95	0.002	0.591	0.014
98	28.26	28.18	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	1896.48	0.002	0.591	0.014
99	28.18	28.10	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	1944.01	0.002	0.591	0.014
100	28.10	28.02	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	1991.53	0.002	0.591	0.014
101	28.02	27.94	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2039.06	0.002	0.591	0.014
102	27.94	27.86	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2086.59	0.002	0.591	0.014
103	27.86	27.78	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2134.12	0.002	0.591	0.014
104	27.78	27.70	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2181.64	0.002	0.591	0.014
105	27.70	27.62	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2229.17	0.002	0.591	0.014
TOT						0.85			25462.38	21266.39					

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 AVG                                    0.0141            1.20   20.45                        24.48
 CUM                                              2.46
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********** 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
93	28.580	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.48	0.48	0.19	0.39	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
94	28.500	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.47	0.47	0.19	0.39	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
95	28.420	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.47	0.47	0.19	0.39	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
96	28.340	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.46	0.46	0.19	0.39	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
97	28.260	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.46	0.46	0.19	0.39	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
98	28.180	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.45	0.45	0.19	0.39	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
99	28.100	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.45	0.45	0.19	0.39	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
100	28.020	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.45	0.45	0.19	0.39	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
101	27.940	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.44	0.44	0.19	0.39	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
102	27.860	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.44	0.44	0.19	0.39	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
103	27.780	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.43	0.43	0.19	0.39	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
104	27.700	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.43	0.43	0.19	0.39	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
105	27.620	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.25	0.43	0.43	0.19	0.39	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.58	0.12	0.20	0.00	0.03	0.20	0.00	0.12			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
93	28.580	30.90	40.07	198.37	7.93	5.42	0.40	0.35	0.40	0.35	0.11	0.00	0.00	0.00	0.00	2.09	0.00	0.	0.00
94	28.500	30.90	40.07	198.37	7.93	5.42	0.39	0.34	0.39	0.34	0.11	0.00	0.00	0.00	0.00	2.18	0.00	0.	0.00
95	28.420	30.90	40.07	198.37	7.93	5.43	0.38	0.34	0.38	0.34	0.11	0.00	0.00	0.00	0.00	2.28	0.00	0.	0.00
96	28.340	30.90	40.07	198.37	7.93	5.44	0.37	0.33	0.37	0.33	0.11	0.00	0.00	0.00	0.00	2.37	0.00	0.	0.00
97	28.260	30.90	40.07	198.37	7.93	5.44	0.36	0.32	0.36	0.32	0.10	0.00	0.00	0.00	0.00	2.46	0.00	0.	0.00
98	28.180	30.90	40.07	198.37	7.93	5.45	0.35	0.32	0.35	0.32	0.10	0.00	0.00	0.00	0.00	2.55	0.00	0.	0.00
99	28.100	30.90	40.07	198.37	7.93	5.46	0.34	0.31	0.34	0.31	0.10	0.00	0.00	0.00	0.00	2.65	0.00	0.	0.00
100	28.020	30.90	40.07	198.37	7.93	5.46	0.33	0.31	0.33	0.31	0.10	0.00	0.00	0.00	0.00	2.74	0.00	0.	0.00
101	27.940	30.90	40.07	198.37	7.93	5.47	0.32	0.30	0.32	0.30	0.09	0.00	0.00	0.00	0.00	2.83	0.00	0.	0.00
102	27.860	30.90	40.07	198.37	7.93	5.48	0.31	0.30	0.31	0.30	0.09	0.00	0.00	0.00	0.00	2.92	0.00	0.	0.00
103	27.780	30.90	40.07	198.37	7.93	5.49	0.31	0.29	0.31	0.29	0.09	0.00	0.00	0.00	0.00	3.02	0.00	0.	0.00
104	27.700	30.90	40.07	198.37	7.93	5.50	0.30	0.29	0.30	0.29	0.09	0.00	0.00	0.00	0.00	3.11	0.00	0.	0.00
105	27.620	30.90	40.07	198.37	7.93	5.50	0.29	0.28	0.29	0.28	0.09	0.00	0.00	0.00	0.00	3.20	0.00	0.	0.00

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FINAL REPORT    BAYOU CUTOFF                                WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO.  4    CUTOFF:THOROUGHBRED TO RKM 24.66            WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI
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********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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

106	UPR RCH	0.34613	30.90	40.07	198.37	7.93	5.50	0.29	0.28	0.29	0.28	0.09	0.00	0.00	0.00	3.20	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
106	27.62	27.54	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2277.74	0.002	0.591	0.014
107	27.54	27.46	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2326.32	0.002	0.591	0.014
108	27.46	27.38	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2374.89	0.002	0.591	0.014
109	27.38	27.30	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2423.46	0.002	0.591	0.014
110	27.30	27.22	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2472.03	0.002	0.591	0.014
111	27.22	27.14	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2520.61	0.002	0.591	0.014
112	27.14	27.06	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2569.18	0.002	0.591	0.014
113	27.06	26.98	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2617.75	0.002	0.591	0.014
114	26.98	26.90	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2666.33	0.002	0.591	0.014
115	26.90	26.82	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2714.90	0.002	0.591	0.014
116	26.82	26.74	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2763.47	0.002	0.591	0.014
117	26.74	26.66	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2812.04	0.002	0.591	0.014
118	26.66	26.58	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2860.62	0.002	0.591	0.014
119	26.58	26.50	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2909.19	0.003	0.591	0.014
120	26.50	26.42	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	2957.76	0.003	0.591	0.014
121	26.42	26.34	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3006.33	0.003	0.591	0.014
122	26.34	26.26	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3054.91	0.003	0.591	0.014
123	26.26	26.18	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3103.48	0.003	0.591	0.014
124	26.18	26.10	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3152.05	0.003	0.591	0.014
125	26.10	26.02	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3200.63	0.003	0.591	0.014
126	26.02	25.94	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3249.20	0.003	0.591	0.014
127	25.94	25.86	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3297.77	0.003	0.591	0.014
128	25.86	25.78	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3346.34	0.003	0.591	0.014
129	25.78	25.70	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3394.92	0.003	0.591	0.014
130	25.70	25.62	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3443.49	0.003	0.591	0.014
131	25.62	25.54	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3492.06	0.003	0.591	0.014
132	25.54	25.46	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3540.64	0.003	0.591	0.014
133	25.46	25.38	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3589.21	0.003	0.591	0.014
134	25.38	25.30	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3637.78	0.003	0.591	0.014
135	25.30	25.22	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3686.35	0.003	0.591	0.014
136	25.22	25.14	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3734.93	0.003	0.591	0.014
137	25.14	25.06	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3783.50	0.003	0.591	0.014
138	25.06	24.98	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3832.07	0.003	0.591	0.014
139	24.98	24.90	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3880.64	0.003	0.591	0.014
140	24.90	24.82	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3929.22	0.003	0.591	0.014
141	24.82	24.74	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	3977.79	0.003	0.591	0.014
142	24.74	24.66	0.34613	0.8	0.01414	0.07	1.20	20.45	1958.65	1635.88	24.48	4026.36	0.004	0.591	0.014
TOT						2.42			72469.87	60527.41					
AVG					0.0141		1.20	20.45			24.48				
CUM						4.88									

********** 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

106	27.540	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.80	0.80	0.19	0.39	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
107	27.460	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.79	0.79	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
108	27.380	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.79	0.79	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
109	27.300	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.79	0.79	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
110	27.220	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.78	0.78	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
111	27.140	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.78	0.78	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
112	27.060	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.78	0.78	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
113	26.980	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.78	0.78	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
114	26.900	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.77	0.77	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
115	26.820	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.77	0.77	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
116	26.740	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.77	0.77	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
117	26.660	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.77	0.77	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
118	26.580	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.76	0.76	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
119	26.500	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.76	0.76	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
120	26.420	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.76	0.76	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
121	26.340	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.76	0.76	0.19	0.39	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
122	26.260	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.75	0.75	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
123	26.180	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.75	0.75	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
124	26.100	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.75	0.75	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
125	26.020	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.75	0.75	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
126	25.940	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.75	0.75	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
127	25.860	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.74	0.74	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
128	25.780	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.74	0.74	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
129	25.700	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.74	0.74	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
130	25.620	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.74	0.74	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
131	25.540	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.74	0.74	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
132	25.460	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.74	0.74	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
133	25.380	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.73	0.73	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
134	25.300	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.73	0.73	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
135	25.220	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.73	0.73	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
136	25.140	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.73	0.73	0.19	0.39	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
137	25.060	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.73	0.73	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
138	24.980	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.73	0.73	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
139	24.900	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.73	0.73	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
140	24.820	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.72	0.72	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
141	24.740	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.72	0.72	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
142	24.660	5.98	0.70	0.19	0.26	0.00	0.05	0.26	0.00	0.62	0.72	0.72	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.58	0.12	0.20	0.00	0.03	0.20	0.00	0.31			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
106	27.540	30.90	40.07	198.37	7.93	5.49	0.29	0.28	0.29	0.28	0.08	0.00	0.00	0.00	0.00	3.21	0.00	0.	0.00
107	27.460	30.90	40.07	198.37	7.93	5.48	0.28	0.27	0.28	0.27	0.08	0.00	0.00	0.00	0.00	3.22	0.00	0.	0.00
108	27.380	30.90	40.07	198.37	7.93	5.48	0.27	0.27	0.27	0.27	0.08	0.00	0.00	0.00	0.00	3.22	0.00	0.	0.00
109	27.300	30.90	40.08	198.37	7.93	5.47	0.27	0.27	0.27	0.27	0.08	0.00	0.00	0.00	0.00	3.23	0.00	0.	0.00
110	27.220	30.90	40.08	198.37	7.93	5.46	0.26	0.26	0.26	0.26	0.07	0.00	0.00	0.00	0.00	3.24	0.00	0.	0.00
111	27.140	30.90	40.08	198.37	7.93	5.46	0.25	0.26	0.25	0.26	0.07	0.00	0.00	0.00	0.00	3.25	0.00	0.	0.00
112	27.060	30.90	40.08	198.37	7.93	5.45	0.25	0.26	0.25	0.26	0.07	0.00	0.00	0.00	0.00	3.26	0.00	0.	0.00
113	26.980	30.90	40.08	198.37	7.93	5.45	0.24	0.25	0.24	0.25	0.07	0.00	0.00	0.00	0.00	3.26	0.00	0.	0.00
114	26.900	30.90	40.08	198.37	7.93	5.44	0.24	0.25	0.24	0.25	0.06	0.00	0.00	0.00	0.00	3.27	0.00	0.	0.00
115	26.820	30.90	40.08	198.37	7.93	5.44	0.23	0.25	0.23	0.25	0.06	0.00	0.00	0.00	0.00	3.28	0.00	0.	0.00

116	26.740	30.90	40.08	198.37	7.93	5.43	0.23	0.25	0.23	0.25	0.06	0.00	0.00	0.00	0.00	3.29	0.00	0.	0.00
117	26.660	30.90	40.09	198.37	7.93	5.43	0.22	0.24	0.22	0.24	0.06	0.00	0.00	0.00	0.00	3.30	0.00	0.	0.00
118	26.580	30.90	40.09	198.37	7.93	5.43	0.22	0.24	0.22	0.24	0.06	0.00	0.00	0.00	0.00	3.31	0.00	0.	0.00
119	26.500	30.90	40.09	198.37	7.93	5.43	0.21	0.24	0.21	0.24	0.06	0.00	0.00	0.00	0.00	3.31	0.00	0.	0.00
120	26.420	30.90	40.09	198.37	7.93	5.42	0.21	0.23	0.21	0.23	0.05	0.00	0.00	0.00	0.00	3.32	0.00	0.	0.00
121	26.340	30.90	40.09	198.37	7.93	5.42	0.20	0.23	0.20	0.23	0.05	0.00	0.00	0.00	0.00	3.33	0.00	0.	0.00
122	26.260	30.90	40.09	198.37	7.93	5.42	0.20	0.23	0.20	0.23	0.05	0.00	0.00	0.00	0.00	3.34	0.00	0.	0.00
123	26.180	30.90	40.09	198.37	7.93	5.42	0.20	0.23	0.20	0.23	0.05	0.00	0.00	0.00	0.00	3.35	0.00	0.	0.00
124	26.100	30.90	40.10	198.37	7.93	5.42	0.19	0.22	0.19	0.22	0.05	0.00	0.00	0.00	0.00	3.35	0.00	0.	0.00
125	26.020	30.90	40.10	198.37	7.93	5.42	0.19	0.22	0.19	0.22	0.05	0.00	0.00	0.00	0.00	3.36	0.00	0.	0.00
126	25.940	30.90	40.10	198.37	7.93	5.42	0.18	0.22	0.18	0.22	0.05	0.00	0.00	0.00	0.00	3.37	0.00	0.	0.00
127	25.860	30.90	40.10	198.37	7.93	5.42	0.18	0.22	0.18	0.22	0.04	0.00	0.00	0.00	0.00	3.38	0.00	0.	0.00
128	25.780	30.90	40.10	198.37	7.93	5.42	0.18	0.21	0.18	0.21	0.04	0.00	0.00	0.00	0.00	3.39	0.00	0.	0.00
129	25.700	30.90	40.10	198.37	7.93	5.42	0.17	0.21	0.17	0.21	0.04	0.00	0.00	0.00	0.00	3.39	0.00	0.	0.00
130	25.620	30.90	40.10	198.37	7.93	5.42	0.17	0.21	0.17	0.21	0.04	0.00	0.00	0.00	0.00	3.40	0.00	0.	0.00
131	25.540	30.90	40.11	198.37	7.93	5.42	0.17	0.21	0.17	0.21	0.04	0.00	0.00	0.00	0.00	3.41	0.00	0.	0.00
132	25.460	30.90	40.11	198.37	7.93	5.42	0.16	0.20	0.16	0.20	0.04	0.00	0.00	0.00	0.00	3.42	0.00	0.	0.00
133	25.380	30.90	40.11	198.37	7.93	5.42	0.16	0.20	0.16	0.20	0.04	0.00	0.00	0.00	0.00	3.43	0.00	0.	0.00
134	25.300	30.90	40.11	198.37	7.93	5.42	0.16	0.20	0.16	0.20	0.04	0.00	0.00	0.00	0.00	3.44	0.00	0.	0.00
135	25.220	30.90	40.11	198.37	7.93	5.42	0.15	0.20	0.15	0.20	0.04	0.00	0.00	0.00	0.00	3.44	0.00	0.	0.00
136	25.140	30.90	40.11	198.37	7.93	5.42	0.15	0.20	0.15	0.20	0.03	0.00	0.00	0.00	0.00	3.45	0.00	0.	0.00
137	25.060	30.90	40.11	198.37	7.93	5.43	0.15	0.19	0.15	0.19	0.03	0.00	0.00	0.00	0.00	3.46	0.00	0.	0.00
138	24.980	30.90	40.11	198.37	7.93	5.43	0.15	0.19	0.15	0.19	0.03	0.00	0.00	0.00	0.00	3.47	0.00	0.	0.00
139	24.900	30.90	40.12	198.37	7.93	5.43	0.14	0.19	0.14	0.19	0.03	0.00	0.00	0.00	0.00	3.48	0.00	0.	0.00
140	24.820	30.90	40.12	198.37	7.93	5.43	0.14	0.19	0.14	0.19	0.03	0.00	0.00	0.00	0.00	3.48	0.00	0.	0.00
141	24.740	30.90	40.12	198.37	7.93	5.43	0.14	0.19	0.14	0.19	0.03	0.00	0.00	0.00	0.00	3.49	0.00	0.	0.00
142	24.660	30.90	40.12	198.37	7.93	5.42	0.14	0.18	0.14	0.18	0.03	0.00	0.00	0.00	0.00	3.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 5 CUTOFF: RKM 24.66 TO ST CHAS WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
143	UPR RCH	0.34613	30.90	40.12	198.37	7.93	5.42	0.14	0.18	0.14	0.18	0.03	0.00	0.00	0.00	3.50	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
143	24.66	24.58	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4086.83	0.003	0.484	0.011
144	24.58	24.50	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4147.30	0.003	0.484	0.011
145	24.50	24.42	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4207.77	0.003	0.484	0.011
146	24.42	24.34	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4268.24	0.003	0.484	0.011
147	24.34	24.26	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4328.71	0.003	0.484	0.011
148	24.26	24.18	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4389.18	0.003	0.484	0.011
149	24.18	24.10	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4449.65	0.003	0.484	0.011
150	24.10	24.02	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4510.12	0.003	0.484	0.011
151	24.02	23.94	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4570.59	0.003	0.484	0.011
152	23.94	23.86	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4631.06	0.003	0.484	0.011
153	23.86	23.78	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4691.53	0.003	0.484	0.011

154	23.78	23.70	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4752.00	0.003	0.484	0.011
155	23.70	23.62	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4812.47	0.003	0.484	0.011
156	23.62	23.54	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4872.94	0.003	0.484	0.011
157	23.54	23.46	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4933.41	0.003	0.484	0.011
158	23.46	23.38	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	4993.88	0.003	0.484	0.011
159	23.38	23.30	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5054.35	0.003	0.484	0.011
160	23.30	23.22	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5114.82	0.003	0.484	0.011
161	23.22	23.14	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5175.29	0.003	0.484	0.011
162	23.14	23.06	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5235.76	0.004	0.484	0.011
163	23.06	22.98	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5296.23	0.004	0.484	0.011
164	22.98	22.90	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5356.70	0.004	0.484	0.011
165	22.90	22.82	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5417.17	0.004	0.484	0.011
166	22.82	22.74	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5477.64	0.004	0.484	0.011
167	22.74	22.66	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5538.11	0.004	0.484	0.011
168	22.66	22.58	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5598.58	0.004	0.484	0.011
169	22.58	22.50	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5659.05	0.004	0.484	0.011
170	22.50	22.42	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5719.52	0.004	0.484	0.011
171	22.42	22.34	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5779.98	0.004	0.484	0.011
172	22.34	22.26	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5840.45	0.004	0.484	0.011
173	22.26	22.18	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5900.92	0.004	0.484	0.011
174	22.18	22.10	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	5961.39	0.004	0.484	0.011
175	22.10	22.02	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	6021.86	0.004	0.484	0.011
176	22.02	21.94	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	6082.33	0.004	0.484	0.011
177	21.94	21.86	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	6142.80	0.004	0.484	0.011
178	21.86	21.78	0.34613	0.8	0.01086	0.09	1.29	24.64	2550.13	1971.50	31.88	6203.27	0.004	0.484	0.011
TOT						3.07			91804.79	70974.01					
AVG					0.0109		1.29	24.64			31.88				
CUM						7.95									

********** 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
143	24.580	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.10	1.10	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
144	24.500	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.10	1.10	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
145	24.420	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.10	1.10	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
146	24.340	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.09	1.09	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
147	24.260	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.09	1.09	0.19	0.39	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
148	24.180	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.09	1.09	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
149	24.100	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.09	1.09	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
150	24.020	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.09	1.09	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
151	23.940	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.09	1.09	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
152	23.860	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.09	1.09	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
153	23.780	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.08	1.08	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
154	23.700	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.08	1.08	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
155	23.620	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.08	1.08	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
156	23.540	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.08	1.08	0.19	0.39	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
157	23.460	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.08	1.08	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
158	23.380	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.08	1.08	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
159	23.300	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.08	1.08	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
160	23.220	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.08	1.08	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
161	23.140	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
162	23.060	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
163	22.980	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00

164	22.900	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
165	22.820	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
166	22.740	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
167	22.660	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
168	22.580	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
169	22.500	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
170	22.420	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
171	22.340	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
172	22.260	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.07	1.07	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
173	22.180	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.06	1.06	0.19	0.39	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
174	22.100	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.06	1.06	0.19	0.39	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
175	22.020	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.06	1.06	0.19	0.39	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
176	21.940	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.06	1.06	0.19	0.39	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
177	21.860	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.06	1.06	0.19	0.39	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
178	21.780	5.98	0.65	0.19	0.26	0.00	0.05	0.26	0.00	0.99	1.06	1.06	0.19	0.39	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.54	0.12	0.20	0.00	0.03	0.20	0.00	0.50			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
143	24.580	30.90	40.12	198.37	7.93	5.40	0.13	0.18	0.13	0.18	0.03	0.00	0.00	0.00	0.00	3.51	0.00	0.	0.00
144	24.500	30.90	40.12	198.37	7.93	5.39	0.13	0.18	0.13	0.18	0.03	0.00	0.00	0.00	0.00	3.53	0.00	0.	0.00
145	24.420	30.90	40.12	198.37	7.93	5.37	0.13	0.18	0.13	0.18	0.03	0.00	0.00	0.00	0.00	3.54	0.00	0.	0.00
146	24.340	30.90	40.12	198.37	7.93	5.35	0.13	0.17	0.13	0.17	0.02	0.00	0.00	0.00	0.00	3.56	0.00	0.	0.00
147	24.260	30.90	40.12	198.37	7.93	5.34	0.12	0.17	0.12	0.17	0.02	0.00	0.00	0.00	0.00	3.57	0.00	0.	0.00
148	24.180	30.90	40.12	198.37	7.93	5.33	0.12	0.17	0.12	0.17	0.02	0.00	0.00	0.00	0.00	3.58	0.00	0.	0.00
149	24.100	30.90	40.12	198.37	7.93	5.32	0.12	0.17	0.12	0.17	0.02	0.00	0.00	0.00	0.00	3.60	0.00	0.	0.00
150	24.020	30.90	40.12	198.37	7.93	5.30	0.12	0.16	0.12	0.16	0.02	0.00	0.00	0.00	0.00	3.61	0.00	0.	0.00
151	23.940	30.90	40.12	198.37	7.93	5.29	0.12	0.16	0.12	0.16	0.02	0.00	0.00	0.00	0.00	3.62	0.00	0.	0.00
152	23.860	30.90	40.12	198.37	7.93	5.28	0.11	0.16	0.11	0.16	0.02	0.00	0.00	0.00	0.00	3.64	0.00	0.	0.00
153	23.780	30.90	40.12	198.37	7.93	5.27	0.11	0.16	0.11	0.16	0.02	0.00	0.00	0.00	0.00	3.65	0.00	0.	0.00
154	23.700	30.90	40.12	198.37	7.93	5.27	0.11	0.15	0.11	0.15	0.02	0.00	0.00	0.00	0.00	3.67	0.00	0.	0.00
155	23.620	30.90	40.12	198.37	7.93	5.26	0.11	0.15	0.11	0.15	0.02	0.00	0.00	0.00	0.00	3.68	0.00	0.	0.00
156	23.540	30.90	40.12	198.37	7.93	5.25	0.11	0.15	0.11	0.15	0.02	0.00	0.00	0.00	0.00	3.69	0.00	0.	0.00
157	23.460	30.90	40.12	198.37	7.93	5.24	0.11	0.15	0.11	0.15	0.02	0.00	0.00	0.00	0.00	3.71	0.00	0.	0.00
158	23.380	30.90	40.12	198.37	7.93	5.24	0.11	0.15	0.11	0.15	0.01	0.00	0.00	0.00	0.00	3.72	0.00	0.	0.00
159	23.300	30.90	40.12	198.37	7.93	5.23	0.10	0.15	0.10	0.15	0.01	0.00	0.00	0.00	0.00	3.74	0.00	0.	0.00
160	23.220	30.90	40.12	198.37	7.93	5.23	0.10	0.14	0.10	0.14	0.01	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.00
161	23.140	30.90	40.12	198.37	7.93	5.22	0.10	0.14	0.10	0.14	0.01	0.00	0.00	0.00	0.00	3.76	0.00	0.	0.00
162	23.060	30.90	40.12	198.37	7.93	5.22	0.10	0.14	0.10	0.14	0.01	0.00	0.00	0.00	0.00	3.78	0.00	0.	0.00
163	22.980	30.90	40.12	198.37	7.93	5.21	0.10	0.14	0.10	0.14	0.01	0.00	0.00	0.00	0.00	3.79	0.00	0.	0.00
164	22.900	30.90	40.12	198.37	7.93	5.21	0.10	0.14	0.10	0.14	0.01	0.00	0.00	0.00	0.00	3.81	0.00	0.	0.00
165	22.820	30.90	40.12	198.37	7.93	5.21	0.10	0.14	0.10	0.14	0.01	0.00	0.00	0.00	0.00	3.82	0.00	0.	0.00
166	22.740	30.90	40.12	198.37	7.93	5.20	0.10	0.13	0.10	0.13	0.01	0.00	0.00	0.00	0.00	3.83	0.00	0.	0.00
167	22.660	30.90	40.12	198.37	7.93	5.20	0.09	0.13	0.09	0.13	0.01	0.00	0.00	0.00	0.00	3.85	0.00	0.	0.00
168	22.580	30.90	40.12	198.37	7.93	5.20	0.09	0.13	0.09	0.13	0.01	0.00	0.00	0.00	0.00	3.86	0.00	0.	0.00
169	22.500	30.90	40.12	198.37	7.93	5.20	0.09	0.13	0.09	0.13	0.01	0.00	0.00	0.00	0.00	3.88	0.00	0.	0.00
170	22.420	30.90	40.12	198.37	7.93	5.20	0.09	0.13	0.09	0.13	0.01	0.00	0.00	0.00	0.00	3.89	0.00	0.	0.00
171	22.340	30.90	40.12	198.37	7.93	5.19	0.09	0.13	0.09	0.13	0.01	0.00	0.00	0.00	0.00	3.90	0.00	0.	0.00
172	22.260	30.90	40.12	198.37	7.93	5.19	0.09	0.13	0.09	0.13	0.01	0.00	0.00	0.00	0.00	3.92	0.00	0.	0.00
173	22.180	30.90	40.12	198.37	7.93	5.19	0.09	0.12	0.09	0.12	0.01	0.00	0.00	0.00	0.00	3.93	0.00	0.	0.00
174	22.100	30.90	40.12	198.37	7.93	5.19	0.09	0.12	0.09	0.12	0.01	0.00	0.00	0.00	0.00	3.94	0.00	0.	0.00

175	22.020	30.90	40.12	198.37	7.93	5.19	0.09	0.12	0.09	0.12	0.01	0.00	0.00	0.00	0.00	3.96	0.00	0.	0.00
176	21.940	30.90	40.12	198.37	7.93	5.19	0.09	0.12	0.09	0.12	0.01	0.00	0.00	0.00	0.00	3.97	0.00	0.	0.00
177	21.860	30.90	40.12	198.37	7.93	5.18	0.09	0.12	0.09	0.12	0.01	0.00	0.00	0.00	0.00	3.99	0.00	0.	0.00
178	21.780	30.90	40.12	198.37	7.93	5.17	0.09	0.12	0.09	0.12	0.01	0.00	0.00	0.00	0.00	4.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 6 CUTOFF: ST CHAS TO RKM 19.28 WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
179	UPR RCH	0.34613	30.90	40.12	198.37	7.93	5.17	0.09	0.12	0.09	0.12	0.01	0.00	0.00	0.00	4.00	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
179	21.78	21.68	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	6281.11	0.004	0.479	0.010
180	21.68	21.58	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	6358.96	0.004	0.479	0.010
181	21.58	21.48	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	6436.80	0.004	0.479	0.010
182	21.48	21.38	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	6514.64	0.004	0.479	0.010
183	21.38	21.28	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	6592.48	0.004	0.479	0.010
184	21.28	21.18	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	6670.32	0.004	0.479	0.010
185	21.18	21.08	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	6748.17	0.004	0.479	0.010
186	21.08	20.98	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	6826.01	0.004	0.479	0.010
187	20.98	20.88	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	6903.85	0.004	0.479	0.010
188	20.88	20.78	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	6981.69	0.004	0.479	0.010
189	20.78	20.68	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	7059.53	0.004	0.479	0.010
190	20.68	20.58	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	7137.37	0.004	0.479	0.010
191	20.58	20.48	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	7215.22	0.004	0.479	0.010
192	20.48	20.38	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	7293.06	0.004	0.479	0.010
193	20.38	20.28	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	7370.90	0.005	0.479	0.010
194	20.28	20.18	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	7448.74	0.005	0.479	0.010
195	20.18	20.08	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	7526.58	0.005	0.479	0.010
196	20.08	19.98	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	7604.43	0.005	0.479	0.010
197	19.98	19.88	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	7682.27	0.005	0.479	0.010
198	19.88	19.78	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	7760.11	0.005	0.479	0.010
199	19.78	19.68	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	7837.95	0.005	0.479	0.010
200	19.68	19.58	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	7915.79	0.005	0.479	0.010
201	19.58	19.48	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	7993.63	0.005	0.479	0.010
202	19.48	19.38	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	8071.48	0.005	0.479	0.010
203	19.38	19.28	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	8149.32	0.005	0.479	0.010
TOT						2.91			87169.20	61400.09					
AVG					0.0099		1.42	24.56			34.87				
CUM						10.86									

********** 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. 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
179	21.680	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.54	1.54	0.19	0.39	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
180	21.580	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.54	1.54	0.19	0.39	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
181	21.480	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.53	1.53	0.19	0.39	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
182	21.380	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.53	1.53	0.19	0.39	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
183	21.280	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.53	1.53	0.19	0.39	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
184	21.180	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.53	1.53	0.19	0.39	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
185	21.080	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.53	1.53	0.19	0.39	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
186	20.980	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
187	20.880	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
188	20.780	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
189	20.680	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
190	20.580	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
191	20.480	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
192	20.380	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.52	1.52	0.19	0.39	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
193	20.280	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
194	20.180	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
195	20.080	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
196	19.980	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
197	19.880	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
198	19.780	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
199	19.680	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
200	19.580	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
201	19.480	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.51	1.51	0.19	0.39	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
202	19.380	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
203	19.280	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.49	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
179	21.680	30.90	40.12	198.37	7.93	5.14	0.08	0.11	0.08	0.11	0.01	0.00	0.00	0.00	0.00	4.04	0.00	0.	0.00
180	21.580	30.90	40.12	198.37	7.93	5.11	0.08	0.11	0.08	0.11	0.01	0.00	0.00	0.00	0.00	4.08	0.00	0.	0.00
181	21.480	30.90	40.12	198.37	7.93	5.09	0.08	0.11	0.08	0.11	0.01	0.00	0.00	0.00	0.00	4.12	0.00	0.	0.00
182	21.380	30.90	40.12	198.37	7.93	5.06	0.08	0.10	0.08	0.10	0.01	0.00	0.00	0.00	0.00	4.16	0.00	0.	0.00
183	21.280	30.90	40.12	198.37	7.93	5.04	0.07	0.10	0.07	0.10	0.01	0.00	0.00	0.00	0.00	4.20	0.00	0.	0.00
184	21.180	30.90	40.12	198.37	7.93	5.02	0.07	0.10	0.07	0.10	0.01	0.00	0.00	0.00	0.00	4.24	0.00	0.	0.00
185	21.080	30.90	40.12	198.37	7.93	5.00	0.07	0.09	0.07	0.09	0.01	0.00	0.00	0.00	0.00	4.28	0.00	0.	0.00
186	20.980	30.90	40.12	198.37	7.93	4.99	0.07	0.09	0.07	0.09	0.01	0.00	0.00	0.00	0.00	4.32	0.00	0.	0.00
187	20.880	30.90	40.12	198.37	7.93	4.97	0.07	0.09	0.07	0.09	0.01	0.00	0.00	0.00	0.00	4.36	0.00	0.	0.00
188	20.780	30.90	40.12	198.37	7.93	4.96	0.07	0.08	0.07	0.08	0.01	0.00	0.00	0.00	0.00	4.40	0.00	0.	0.00
189	20.680	30.90	40.12	198.37	7.93	4.95	0.07	0.08	0.07	0.08	0.01	0.00	0.00	0.00	0.00	4.44	0.00	0.	0.00
190	20.580	30.90	40.12	198.37	7.93	4.93	0.06	0.08	0.06	0.08	0.01	0.00	0.00	0.00	0.00	4.48	0.00	0.	0.00
191	20.480	30.90	40.12	198.37	7.93	4.92	0.06	0.08	0.06	0.08	0.01	0.00	0.00	0.00	0.00	4.52	0.00	0.	0.00
192	20.380	30.90	40.12	198.37	7.93	4.92	0.06	0.07	0.06	0.07	0.01	0.00	0.00	0.00	0.00	4.56	0.00	0.	0.00
193	20.280	30.90	40.12	198.37	7.93	4.91	0.06	0.07	0.06	0.07	0.01	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.00
194	20.180	30.90	40.12	198.37	7.93	4.90	0.06	0.07	0.06	0.07	0.01	0.00	0.00	0.00	0.00	4.64	0.00	0.	0.00
195	20.080	30.90	40.12	198.37	7.93	4.90	0.06	0.07	0.06	0.07	0.01	0.00	0.00	0.00	0.00	4.68	0.00	0.	0.00
196	19.980	30.90	40.12	198.37	7.93	4.89	0.06	0.06	0.06	0.06	0.01	0.00	0.00	0.00	0.00	4.72	0.00	0.	0.00
197	19.880	30.90	40.12	198.37	7.93	4.89	0.06	0.06	0.06	0.06	0.01	0.00	0.00	0.00	0.00	4.76	0.00	0.	0.00

198	19.780	30.90	40.12	198.37	7.93	4.88	0.06	0.06	0.06	0.06	0.01	0.00	0.00	0.00	0.00	4.80	0.00	0.	0.00
199	19.680	30.90	40.12	198.37	7.93	4.88	0.05	0.06	0.05	0.06	0.01	0.00	0.00	0.00	0.00	4.84	0.00	0.	0.00
200	19.580	30.90	40.12	198.37	7.93	4.88	0.05	0.06	0.05	0.06	0.01	0.00	0.00	0.00	0.00	4.88	0.00	0.	0.00
201	19.480	30.90	40.12	198.37	7.93	4.88	0.05	0.05	0.05	0.05	0.01	0.00	0.00	0.00	0.00	4.92	0.00	0.	0.00
202	19.380	30.90	40.12	198.37	7.93	4.87	0.05	0.05	0.05	0.05	0.01	0.00	0.00	0.00	0.00	4.96	0.00	0.	0.00
203	19.280	30.90	40.12	198.37	7.93	4.87	0.05	0.05	0.05	0.05	0.01	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 7 CUTOFF: RKm 19.28 TO RKM 16.28 WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
204	UPR RCH	0.34613	30.90	40.12	198.37	7.93	4.87	0.05	0.05	0.05	0.05	0.01	0.00	0.00	0.00	5.00	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
204	19.28	19.20	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	8213.60	0.005	0.479	0.010
205	19.20	19.12	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	8277.88	0.005	0.479	0.010
206	19.12	19.04	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	8342.16	0.005	0.479	0.010
207	19.04	18.96	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	8406.45	0.005	0.479	0.010
208	18.96	18.88	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	8470.73	0.005	0.479	0.010
209	18.88	18.80	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	8535.01	0.005	0.479	0.010
210	18.80	18.72	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	8599.29	0.005	0.479	0.010
211	18.72	18.64	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	8663.58	0.005	0.479	0.010
212	18.64	18.56	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	8727.86	0.005	0.479	0.010
213	18.56	18.48	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	8792.14	0.005	0.479	0.010
214	18.48	18.40	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	8856.42	0.005	0.479	0.010
215	18.40	18.32	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	8920.70	0.005	0.479	0.010
216	18.32	18.24	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	8984.99	0.006	0.479	0.010
217	18.24	18.16	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9049.27	0.006	0.479	0.010
218	18.16	18.08	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9113.55	0.006	0.479	0.010
219	18.08	18.00	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9177.83	0.006	0.479	0.010
220	18.00	17.92	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9242.12	0.006	0.479	0.010
221	17.92	17.84	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9306.40	0.006	0.479	0.010
222	17.84	17.76	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9370.68	0.006	0.479	0.010
223	17.76	17.68	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9434.96	0.006	0.479	0.010
224	17.68	17.60	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9499.24	0.006	0.479	0.010
225	17.60	17.52	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9563.53	0.006	0.479	0.010
226	17.52	17.44	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9627.81	0.006	0.479	0.010
227	17.44	17.36	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9692.09	0.006	0.479	0.010
228	17.36	17.28	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9756.37	0.006	0.480	0.010
229	17.28	17.20	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9820.66	0.006	0.480	0.010
230	17.20	17.12	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9884.94	0.006	0.480	0.010
231	17.12	17.04	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	9949.22	0.006	0.481	0.010
232	17.04	16.96	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	10013.50	0.006	0.482	0.010
233	16.96	16.88	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	10077.78	0.006	0.482	0.010
234	16.88	16.80	0.34613	0.8	0.00993	0.09	1.42	24.56	2789.41	1964.80	34.87	10142.07	0.006	0.483	0.010

TOT							2.89					86471.84	60908.91										
AVG						0.0099			1.42	24.56									34.87				
CUM							13.75																

********** 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
204	19.200	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00
205	19.120	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
206	19.040	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
207	18.960	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
208	18.880	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
209	18.800	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
210	18.720	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
211	18.640	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
212	18.560	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
213	18.480	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
214	18.400	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
215	18.320	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
216	18.240	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
217	18.160	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
218	18.080	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
219	18.000	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
220	17.920	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
221	17.840	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
222	17.760	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
223	17.680	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
224	17.600	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
225	17.520	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
226	17.440	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
227	17.360	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
228	17.280	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
229	17.200	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
230	17.120	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
231	17.040	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
232	16.960	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
233	16.880	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
234	16.800	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.19	0.39	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.49	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
204	19.200	30.90	40.12	198.37	7.93	4.88	0.05	0.05	0.05	0.05	0.01	0.00	0.00	0.00	0.00	5.23	0.00	0.	0.00
205	19.120	30.90	40.12	198.37	7.93	4.88	0.05	0.05	0.05	0.05	0.01	0.00	0.00	0.00	0.00	5.45	0.00	0.	0.00
206	19.040	30.90	40.12	198.37	7.93	4.88	0.05	0.05	0.05	0.05	0.01	0.00	0.00	0.00	0.00	5.68	0.00	0.	0.00
207	18.960	30.90	40.12	198.37	7.93	4.89	0.05	0.05	0.05	0.05	0.01	0.00	0.00	0.00	0.00	5.90	0.00	0.	0.00
208	18.880	30.90	40.12	198.37	7.93	4.90	0.05	0.05	0.05	0.05	0.01	0.00	0.00	0.00	0.00	6.13	0.00	0.	0.00

209	18.800	30.90	40.11	198.37	7.93	4.91	0.05	0.05	0.05	0.05	0.01	0.00	0.00	0.00	0.00	6.35	0.00	0.	0.00
210	18.720	30.90	40.11	198.37	7.93	4.92	0.05	0.05	0.05	0.05	0.01	0.00	0.00	0.00	0.00	6.58	0.00	0.	0.00
211	18.640	30.90	40.11	198.37	7.93	4.93	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	6.81	0.00	0.	0.00
212	18.560	30.90	40.11	198.37	7.93	4.94	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	7.03	0.00	0.	0.00
213	18.480	30.90	40.11	198.37	7.93	4.95	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	7.26	0.00	0.	0.00
214	18.400	30.90	40.11	198.37	7.93	4.97	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	7.48	0.00	0.	0.00
215	18.320	30.90	40.11	198.37	7.93	4.98	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	7.71	0.00	0.	0.00
216	18.240	30.90	40.11	198.37	7.93	5.00	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	7.94	0.00	0.	0.00
217	18.160	30.90	40.11	198.37	7.93	5.02	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	8.16	0.00	0.	0.00
218	18.080	30.90	40.11	198.37	7.93	5.03	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	8.39	0.00	0.	0.00
219	18.000	30.90	40.10	198.37	7.93	5.05	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	8.61	0.00	0.	0.00
220	17.920	30.90	40.10	198.37	7.93	5.07	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	8.84	0.00	0.	0.00
221	17.840	30.90	40.10	198.37	7.93	5.09	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	9.06	0.00	0.	0.00
222	17.760	30.90	40.10	198.37	7.93	5.11	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	9.29	0.00	0.	0.00
223	17.680	30.90	40.10	198.37	7.93	5.13	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	9.52	0.00	0.	0.00
224	17.600	30.90	40.10	198.37	7.93	5.15	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	9.74	0.00	0.	0.00
225	17.520	30.90	40.10	198.37	7.93	5.17	0.05	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00	9.97	0.00	0.	0.00
226	17.440	30.90	40.10	198.37	7.93	5.20	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	10.19	0.00	0.	0.00
227	17.360	30.90	40.10	198.37	7.93	5.22	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	10.42	0.00	0.	0.00
228	17.280	30.90	40.10	198.37	7.93	5.24	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	10.65	0.00	0.	0.00
229	17.200	30.90	40.09	198.37	7.93	5.27	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	10.87	0.00	0.	0.00
230	17.120	30.90	40.09	198.37	7.93	5.29	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	11.10	0.00	0.	0.00
231	17.040	30.90	40.09	198.37	7.93	5.31	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	11.32	0.00	0.	0.00
232	16.960	30.90	40.09	198.37	7.93	5.34	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	11.55	0.00	0.	0.00
233	16.880	30.90	40.09	198.37	7.93	5.37	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	11.77	0.00	0.	0.00
234	16.800	30.90	40.09	198.37	7.93	5.39	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	12.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 8 CUTOFF: RKM 16.28 TO BAYOU FOLSE WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
235	UPR RCH	0.34613	30.90	40.09	198.37	7.93	5.39	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	12.00	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
235	16.80	16.70	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	10225.24	0.006	0.484	0.010
236	16.70	16.60	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	10308.42	0.006	0.485	0.010
237	16.60	16.50	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	10391.60	0.006	0.486	0.010
238	16.50	16.40	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	10474.78	0.006	0.487	0.010
239	16.40	16.30	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	10557.96	0.006	0.488	0.010
240	16.30	16.20	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	10641.13	0.007	0.489	0.010
241	16.20	16.10	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	10724.31	0.007	0.490	0.010
242	16.10	16.00	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	10807.49	0.007	0.491	0.010
243	16.00	15.90	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	10890.67	0.007	0.492	0.010
244	15.90	15.80	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	10973.84	0.007	0.493	0.010
245	15.80	15.70	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	11057.02	0.007	0.495	0.010
246	15.70	15.60	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	11140.20	0.007	0.496	0.010

247	15.60	15.50	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	11223.38	0.007	0.497	0.010
248	15.50	15.40	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	11306.55	0.007	0.498	0.010
249	15.40	15.30	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	11389.73	0.007	0.500	0.010
250	15.30	15.20	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	11472.91	0.007	0.501	0.010
251	15.20	15.10	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	11556.09	0.007	0.503	0.010
252	15.10	15.00	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	11639.27	0.007	0.504	0.010
253	15.00	14.90	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	11722.44	0.007	0.505	0.010
254	14.90	14.80	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	11805.62	0.007	0.507	0.011
255	14.80	14.70	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	11888.80	0.007	0.508	0.011
256	14.70	14.60	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	11971.98	0.007	0.510	0.011
257	14.60	14.50	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	12055.15	0.007	0.511	0.011
258	14.50	14.40	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	12138.33	0.007	0.513	0.011
259	14.40	14.30	0.34613	0.8	0.00993	0.12	1.42	24.56	3486.77	2456.00	34.87	12221.51	0.007	0.514	0.011
TOT						2.91			87169.20	61400.09					
AVG					0.0099		1.42	24.56			34.87				
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
235	16.700	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.19	0.39	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
236	16.600	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.19	0.39	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
237	16.500	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.19	0.39	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
238	16.400	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.19	0.39	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
239	16.300	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
240	16.200	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
241	16.100	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
242	16.000	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
243	15.900	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
244	15.800	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
245	15.700	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
246	15.600	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
247	15.500	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
248	15.400	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
249	15.300	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
250	15.200	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
251	15.100	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
252	15.000	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
253	14.900	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00
254	14.800	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
255	14.700	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
256	14.600	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
257	14.500	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.00
258	14.400	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
259	14.300	5.98	0.59	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.49	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
235	16.700	30.90	40.09	198.37	7.93	5.42	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	12.29	0.00	0.	0.00
236	16.600	30.90	40.09	198.37	7.93	5.46	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	12.58	0.00	0.	0.00
237	16.500	30.90	40.09	198.37	7.93	5.49	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	12.86	0.00	0.	0.00
238	16.400	30.90	40.09	198.37	7.93	5.52	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	13.15	0.00	0.	0.00
239	16.300	30.90	40.09	198.37	7.93	5.56	0.04	0.03	0.04	0.03	0.01	0.00	0.00	0.00	0.00	13.44	0.00	0.	0.00
240	16.200	30.90	40.09	198.37	7.93	5.59	0.04	0.03	0.04	0.03	0.01	0.00	0.00	0.00	0.00	13.73	0.00	0.	0.00
241	16.100	30.90	40.09	198.37	7.93	5.63	0.04	0.03	0.04	0.03	0.01	0.00	0.00	0.00	0.00	14.02	0.00	0.	0.00
242	16.000	30.90	40.09	198.37	7.93	5.66	0.04	0.03	0.04	0.03	0.01	0.00	0.00	0.00	0.00	14.30	0.00	0.	0.00
243	15.900	30.90	40.09	198.37	7.93	5.70	0.04	0.03	0.04	0.03	0.01	0.00	0.00	0.00	0.00	14.59	0.00	0.	0.00
244	15.800	30.90	40.09	198.37	7.93	5.74	0.04	0.03	0.04	0.03	0.01	0.00	0.00	0.00	0.00	14.88	0.00	0.	0.00
245	15.700	30.90	40.09	198.37	7.93	5.77	0.04	0.03	0.04	0.03	0.01	0.00	0.00	0.00	0.00	15.17	0.00	0.	0.00
246	15.600	30.90	40.09	198.37	7.93	5.81	0.04	0.03	0.04	0.03	0.01	0.00	0.00	0.00	0.00	15.46	0.00	0.	0.00
247	15.500	30.90	40.09	198.37	7.93	5.85	0.04	0.02	0.04	0.02	0.01	0.00	0.00	0.00	0.00	15.74	0.00	0.	0.00
248	15.400	30.90	40.09	198.37	7.93	5.88	0.04	0.02	0.04	0.02	0.01	0.00	0.00	0.00	0.00	16.03	0.00	0.	0.00
249	15.300	30.90	40.09	198.37	7.93	5.92	0.04	0.02	0.04	0.02	0.01	0.00	0.00	0.00	0.00	16.32	0.00	0.	0.00
250	15.200	30.90	40.09	198.37	7.93	5.96	0.04	0.02	0.04	0.02	0.01	0.00	0.00	0.00	0.00	16.61	0.00	0.	0.00
251	15.100	30.90	40.09	198.37	7.93	6.00	0.04	0.02	0.04	0.02	0.01	0.00	0.00	0.00	0.00	16.90	0.00	0.	0.00
252	15.000	30.90	40.09	198.37	7.93	6.03	0.04	0.02	0.04	0.02	0.01	0.00	0.00	0.00	0.00	17.18	0.00	0.	0.00
253	14.900	30.90	40.09	198.37	7.93	6.07	0.04	0.02	0.04	0.02	0.01	0.00	0.00	0.00	0.00	17.47	0.00	0.	0.00
254	14.800	30.90	40.09	198.37	7.93	6.11	0.04	0.02	0.04	0.02	0.01	0.00	0.00	0.00	0.00	17.76	0.00	0.	0.00
255	14.700	30.90	40.09	198.37	7.93	6.15	0.04	0.02	0.04	0.02	0.01	0.00	0.00	0.00	0.00	18.05	0.00	0.	0.00
256	14.600	30.90	40.09	198.37	7.93	6.19	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	18.34	0.00	0.	0.00
257	14.500	30.90	40.09	198.37	7.93	6.23	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	18.62	0.00	0.	0.00
258	14.400	30.90	40.09	198.37	7.93	6.27	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	18.91	0.00	0.	0.00
259	14.300	30.90	40.09	198.37	7.93	6.31	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	19.20	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 9 FOLSE: THERIOT CANAL TO RKM 12.3 WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
260	UPR RCH	0.34613	30.90	40.09	198.37	7.93	6.31	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	19.20	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
260	14.30	14.20	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	12312.79	0.007	0.478	0.009
261	14.20	14.10	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	12404.07	0.007	0.480	0.009
262	14.10	14.00	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	12495.36	0.007	0.482	0.009
263	14.00	13.90	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	12586.64	0.007	0.483	0.009
264	13.90	13.80	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	12677.92	0.007	0.485	0.009
265	13.80	13.70	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	12769.20	0.007	0.487	0.009
266	13.70	13.60	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	12860.49	0.007	0.488	0.010
267	13.60	13.50	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	12951.77	0.007	0.490	0.010
268	13.50	13.40	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	13043.05	0.007	0.492	0.010
269	13.40	13.30	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	13134.33	0.007	0.493	0.010

270	13.30	13.20	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	13225.61	0.007	0.495	0.010
271	13.20	13.10	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	13316.90	0.007	0.497	0.010
272	13.10	13.00	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	13408.18	0.007	0.499	0.010
273	13.00	12.90	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	13499.46	0.007	0.500	0.010
274	12.90	12.80	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	13590.74	0.007	0.502	0.010
275	12.80	12.70	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	13682.03	0.007	0.504	0.010
276	12.70	12.60	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	13773.31	0.007	0.506	0.010
277	12.60	12.50	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	13864.59	0.007	0.508	0.010
278	12.50	12.40	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	13955.87	0.007	0.509	0.010
279	12.40	12.30	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	14047.15	0.008	0.511	0.010
TOT						2.67			79988.90	52326.39					
AVG					0.0087		1.53	26.16			39.99				
CUM						19.34									

********** 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
260	14.200	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
261	14.100	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
262	14.000	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
263	13.900	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
264	13.800	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
265	13.700	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
266	13.600	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
267	13.500	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
268	13.400	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
269	13.300	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
270	13.200	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
271	13.100	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
272	13.000	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
273	12.900	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
274	12.800	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
275	12.700	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
276	12.600	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
277	12.500	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
278	12.400	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
279	12.300	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.46	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
260	14.200	30.90	40.09	198.37	7.93	6.36	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	19.22	0.00	0.	0.00
261	14.100	30.90	40.09	198.37	7.93	6.41	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	19.23	0.00	0.	0.00
262	14.000	30.90	40.09	198.37	7.93	6.45	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	19.25	0.00	0.	0.00
263	13.900	30.90	40.09	198.37	7.93	6.49	0.04	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	19.26	0.00	0.	0.00
264	13.800	30.90	40.09	198.37	7.93	6.53	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.27	0.00	0.	0.00

265	13.700	30.90	40.09	198.37	7.93	6.57	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.29	0.00	0.	0.00
266	13.600	30.90	40.09	198.37	7.93	6.60	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.31	0.00	0.	0.00
267	13.500	30.90	40.09	198.37	7.93	6.63	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.32	0.00	0.	0.00
268	13.400	30.90	40.09	198.37	7.93	6.66	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.34	0.00	0.	0.00
269	13.300	30.90	40.09	198.37	7.93	6.69	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.35	0.00	0.	0.00
270	13.200	30.90	40.09	198.37	7.93	6.72	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.36	0.00	0.	0.00
271	13.100	30.90	40.09	198.37	7.93	6.74	0.05	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	19.38	0.00	0.	0.00
272	13.000	30.90	40.09	198.37	7.93	6.76	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.40	0.00	0.	0.00
273	12.900	30.90	40.09	198.37	7.93	6.78	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.41	0.00	0.	0.00
274	12.800	30.90	40.09	198.37	7.93	6.81	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.42	0.00	0.	0.00
275	12.700	30.90	40.09	198.37	7.93	6.82	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.44	0.00	0.	0.00
276	12.600	30.90	40.09	198.37	7.93	6.84	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.45	0.00	0.	0.00
277	12.500	30.90	40.09	198.37	7.93	6.86	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.47	0.00	0.	0.00
278	12.400	30.90	40.09	198.37	7.93	6.88	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.49	0.00	0.	0.00
279	12.300	30.90	40.09	198.37	7.93	6.89	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 10 FOLSE: RKM 12.30 TO RKM 10.20 WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
280	UPR RCH	0.34613	30.90	40.09	198.37	7.93	6.89	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	19.50	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
280	12.30	12.20	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	14141.11	0.008	0.513	0.010
281	12.20	12.10	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	14235.07	0.008	0.515	0.010
282	12.10	12.00	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	14329.03	0.008	0.517	0.010
283	12.00	11.90	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	14422.98	0.008	0.519	0.010
284	11.90	11.80	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	14516.94	0.008	0.521	0.010
285	11.80	11.70	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	14610.90	0.008	0.523	0.010
286	11.70	11.60	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	14704.85	0.008	0.525	0.010
287	11.60	11.50	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	14798.81	0.008	0.527	0.010
288	11.50	11.40	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	14892.77	0.008	0.529	0.010
289	11.40	11.30	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	14986.72	0.008	0.531	0.010
290	11.30	11.20	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	15080.68	0.008	0.533	0.010
291	11.20	11.10	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	15174.64	0.008	0.535	0.010
292	11.10	11.00	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	15268.60	0.008	0.537	0.010
293	11.00	10.90	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	15362.55	0.008	0.539	0.011
294	10.90	10.80	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	15456.51	0.008	0.541	0.011
295	10.80	10.70	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	15550.47	0.008	0.543	0.011
296	10.70	10.60	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	15644.42	0.008	0.545	0.011
297	10.60	10.50	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	15738.38	0.008	0.547	0.011
298	10.50	10.40	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	15832.34	0.008	0.549	0.011
299	10.40	10.30	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	15926.29	0.009	0.551	0.011
300	10.30	10.20	0.34613	0.8	0.00865	0.13	1.53	26.16	3999.44	2616.32	39.99	16020.25	0.009	0.553	0.011
TOT						2.81			83988.34	54942.71					

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 AVG                                    0.0087            1.53   26.16                        39.99
 CUM                                              22.15
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********** 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
280	12.200	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.40	1.40	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
281	12.100	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.40	1.40	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
282	12.000	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.40	1.40	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
283	11.900	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.40	1.40	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
284	11.800	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.40	1.40	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
285	11.700	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
286	11.600	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
287	11.500	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
288	11.400	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
289	11.300	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
290	11.200	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
291	11.100	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
292	11.000	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
293	10.900	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
294	10.800	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
295	10.700	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
296	10.600	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.41	1.41	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
297	10.500	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.42	1.42	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
298	10.400	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.42	1.42	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
299	10.300	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.42	1.42	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
300	10.200	5.98	0.55	0.19	0.26	0.00	0.05	0.26	0.00	1.37	1.42	1.42	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.46	0.12	0.20	0.00	0.03	0.20	0.00	0.69			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
280	12.200	30.90	40.09	198.37	7.93	6.91	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
281	12.100	30.90	40.09	198.37	7.93	6.93	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
282	12.000	30.90	40.09	198.37	7.93	6.95	0.06	0.02	0.06	0.02	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
283	11.900	30.90	40.09	198.37	7.93	6.97	0.07	0.03	0.07	0.03	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
284	11.800	30.90	40.09	198.37	7.93	6.98	0.07	0.03	0.07	0.03	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
285	11.700	30.90	40.09	198.37	7.93	7.00	0.07	0.03	0.07	0.03	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
286	11.600	30.90	40.09	198.37	7.93	7.01	0.07	0.03	0.07	0.03	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
287	11.500	30.90	40.09	198.37	7.93	7.02	0.07	0.03	0.07	0.03	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
288	11.400	30.90	40.09	198.37	7.93	7.03	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
289	11.300	30.90	40.09	198.37	7.93	7.04	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
290	11.200	30.90	40.09	198.37	7.93	7.05	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
291	11.100	30.90	40.09	198.37	7.93	7.06	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
292	11.000	30.90	40.09	198.37	7.93	7.07	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
293	10.900	30.90	40.09	198.37	7.93	7.08	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
294	10.800	30.90	40.09	198.37	7.93	7.09	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
295	10.700	30.90	40.09	198.37	7.93	7.09	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00

296	10.600	30.90	40.09	198.37	7.93	7.10	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
297	10.500	30.90	40.09	198.37	7.93	7.11	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
298	10.400	30.90	40.09	198.37	7.93	7.12	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
299	10.300	30.90	40.09	198.37	7.93	7.14	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
300	10.200	30.90	40.09	198.37	7.93	7.19	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 11 FOLSE: RKM 10.20 TO RKM 7.40 WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
301	UPR RCH	0.34613	30.90	40.09	198.37	7.93	7.19	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	19.50	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
301	10.20	10.00	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	16324.93	0.005	0.356	0.007
302	10.00	9.80	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	16629.60	0.006	0.360	0.007
303	9.80	9.60	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	16934.28	0.006	0.365	0.007
304	9.60	9.40	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	17238.95	0.006	0.369	0.007
305	9.40	9.20	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	17543.62	0.006	0.374	0.007
306	9.20	9.00	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	17848.30	0.006	0.378	0.007
307	9.00	8.80	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	18152.97	0.006	0.383	0.007
308	8.80	8.60	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	18457.64	0.006	0.387	0.007
309	8.60	8.40	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	18762.32	0.006	0.392	0.007
310	8.40	8.20	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	19066.99	0.006	0.396	0.008
311	8.20	8.00	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	19371.67	0.006	0.401	0.008
312	8.00	7.80	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	19676.34	0.007	0.406	0.008
313	7.80	7.60	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	19981.01	0.007	0.410	0.008
314	7.60	7.40	0.34613	0.8	0.00536	0.43	1.58	40.92	12906.87	8183.05	64.53	20285.69	0.007	0.415	0.008
TOT						6.04			180696.23	114562.74					
AVG					0.0054		1.58	40.92			64.53				
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
301	10.000	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.55	0.55	0.20	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
302	9.800	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.55	0.55	0.21	0.39	0.00	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
303	9.600	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.55	0.55	0.21	0.39	0.00	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
304	9.400	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
305	9.200	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
306	9.000	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00
307	8.800	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00

308	8.600	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00
309	8.400	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
310	8.200	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
311	8.000	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
312	7.800	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
313	7.600	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
314	7.400	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.44	0.12	0.20	0.00	0.03	0.20	0.00	0.25			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
301	10.000	30.90	40.09	198.37	7.93	7.38	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.54	0.00	0.	0.00
302	9.800	30.90	40.09	198.37	7.93	7.55	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.57	0.00	0.	0.00
303	9.600	30.90	40.09	198.37	7.93	7.69	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.61	0.00	0.	0.00
304	9.400	30.90	40.09	198.37	7.93	7.81	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.64	0.00	0.	0.00
305	9.200	30.90	40.09	198.37	7.93	7.90	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.68	0.00	0.	0.00
306	9.000	30.90	40.09	198.37	7.93	7.98	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.71	0.00	0.	0.00
307	8.800	30.90	40.09	198.37	7.93	8.05	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	19.75	0.00	0.	0.00
308	8.600	30.90	40.09	198.37	7.93	8.11	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	0.00	19.79	0.00	0.	0.00
309	8.400	30.90	40.09	198.37	7.93	8.15	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	0.00	19.82	0.00	0.	0.00
310	8.200	30.90	40.09	198.37	7.93	8.19	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	0.00	19.86	0.00	0.	0.00
311	8.000	30.90	40.09	198.37	7.93	8.23	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	0.00	19.89	0.00	0.	0.00
312	7.800	30.90	40.09	198.37	7.93	8.25	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	0.00	19.93	0.00	0.	0.00
313	7.600	30.90	40.09	198.37	7.93	8.28	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	0.00	19.96	0.00	0.	0.00
314	7.400	30.90	40.09	198.37	7.93	8.30	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	0.00	20.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 12 FOLSE: RKM 7.40 TO RACELAND C. WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
315	UPR RCH	0.34613	30.90	40.09	198.37	7.93	8.30	0.06	0.05	0.06	0.05	0.02	0.00	0.00	0.00	20.00	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
315	7.40	7.25	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	20523.61	0.007	0.419	0.008
316	7.25	7.10	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	20761.52	0.007	0.422	0.008
317	7.10	6.95	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	20999.44	0.007	0.426	0.008
318	6.95	6.80	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	21237.36	0.007	0.430	0.008
319	6.80	6.65	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	21475.28	0.007	0.433	0.008
320	6.65	6.50	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	21713.20	0.007	0.437	0.008

321	6.50	6.35	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	21951.11	0.007	0.441	0.008
322	6.35	6.20	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	22189.03	0.007	0.445	0.008
323	6.20	6.05	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	22426.95	0.007	0.448	0.009
324	6.05	5.90	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	22664.87	0.008	0.452	0.009
325	5.90	5.75	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	22902.79	0.008	0.456	0.009
326	5.75	5.60	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	23140.70	0.008	0.460	0.009
327	5.60	5.45	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	23378.62	0.008	0.463	0.009
328	5.45	5.30	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	23616.54	0.008	0.467	0.009
329	5.30	5.15	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	23854.46	0.008	0.471	0.009
330	5.15	5.00	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	24092.38	0.008	0.475	0.009
331	5.00	4.85	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	24330.29	0.008	0.479	0.009
332	4.85	4.70	0.34613	0.8	0.00536	0.32	1.58	40.92	9680.15	6137.29	64.53	24568.21	0.008	0.482	0.009
TOT						5.83			174242.80	110471.20					
AVG					0.0054		1.58	40.92			64.53				
CUM						34.02									

********** 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
315	7.250	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
316	7.100	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
317	6.950	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
318	6.800	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00
319	6.650	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00
320	6.500	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
321	6.350	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.54	0.54	0.21	0.39	0.00	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
322	6.200	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
323	6.050	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
324	5.900	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
325	5.750	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
326	5.600	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
327	5.450	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
328	5.300	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
329	5.150	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
330	5.000	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
331	4.850	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
332	4.700	5.98	0.53	0.19	0.26	0.00	0.05	0.26	0.00	0.50	0.53	0.53	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.44	0.12	0.20	0.00	0.03	0.20	0.00	0.25			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
315	7.250	30.90	40.09	198.37	7.93	8.32	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.06	0.00	0.	0.00
316	7.100	30.90	40.09	198.37	7.93	8.33	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.11	0.00	0.	0.00
317	6.950	30.90	40.09	198.37	7.93	8.35	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.17	0.00	0.	0.00
318	6.800	30.90	40.09	198.37	7.93	8.36	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.22	0.00	0.	0.00
319	6.650	30.90	40.09	198.37	7.93	8.37	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.28	0.00	0.	0.00

320	6.500	30.90	40.09	198.37	7.93	8.39	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.33	0.00	0.	0.00
321	6.350	30.90	40.09	198.37	7.93	8.40	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.39	0.00	0.	0.00
322	6.200	30.90	40.09	198.37	7.93	8.41	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.44	0.00	0.	0.00
323	6.050	30.90	40.10	198.37	7.93	8.42	0.06	0.04	0.06	0.04	0.02	0.00	0.00	0.00	0.00	20.50	0.00	0.	0.00
324	5.900	30.90	40.10	198.37	7.93	8.43	0.05	0.04	0.05	0.04	0.02	0.00	0.00	0.00	0.00	20.56	0.00	0.	0.00
325	5.750	30.90	40.10	198.37	7.93	8.44	0.05	0.04	0.05	0.04	0.02	0.00	0.00	0.00	0.00	20.61	0.00	0.	0.00
326	5.600	30.90	40.10	198.37	7.93	8.45	0.05	0.04	0.05	0.04	0.02	0.00	0.00	0.00	0.00	20.67	0.00	0.	0.00
327	5.450	30.90	40.10	198.37	7.93	8.46	0.05	0.04	0.05	0.04	0.02	0.00	0.00	0.00	0.00	20.72	0.00	0.	0.00
328	5.300	30.90	40.10	198.37	7.93	8.47	0.05	0.03	0.05	0.03	0.02	0.00	0.00	0.00	0.00	20.78	0.00	0.	0.00
329	5.150	30.90	40.10	198.37	7.93	8.48	0.05	0.03	0.05	0.03	0.02	0.00	0.00	0.00	0.00	20.83	0.00	0.	0.00
330	5.000	30.90	40.10	198.37	7.93	8.48	0.05	0.03	0.05	0.03	0.02	0.00	0.00	0.00	0.00	20.89	0.00	0.	0.00
331	4.850	30.90	40.10	198.37	7.93	8.47	0.05	0.03	0.05	0.03	0.02	0.00	0.00	0.00	0.00	20.94	0.00	0.	0.00
332	4.700	30.90	40.10	198.37	7.93	8.41	0.05	0.03	0.05	0.03	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 13 FOLSE: RACELAND C. TO RKM 2.32 WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
333	UPR RCH	0.34613	30.90	40.10	198.37	7.93	8.41	0.05	0.03	0.05	0.03	0.02	0.00	0.00	0.00	21.00	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
333	4.70	4.58	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	24749.68	0.013	0.561	0.015
334	4.58	4.46	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	24931.14	0.013	0.565	0.015
335	4.46	4.34	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	25112.61	0.013	0.568	0.015
336	4.34	4.22	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	25294.08	0.013	0.571	0.015
337	4.22	4.11	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	25475.54	0.014	0.575	0.015
338	4.11	3.99	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	25657.01	0.014	0.578	0.015
339	3.99	3.87	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	25838.48	0.014	0.582	0.015
340	3.87	3.75	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	26019.95	0.014	0.585	0.015
341	3.75	3.63	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	26201.41	0.014	0.588	0.016
342	3.63	3.51	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	26382.88	0.014	0.592	0.016
343	3.51	3.39	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	26564.35	0.014	0.595	0.016
344	3.39	3.27	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	26745.81	0.014	0.599	0.016
345	3.27	3.15	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	26927.28	0.014	0.602	0.016
346	3.15	3.03	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	27108.75	0.014	0.606	0.016
347	3.03	2.92	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	27290.21	0.015	0.609	0.016
348	2.92	2.80	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	27471.68	0.015	0.612	0.016
349	2.80	2.68	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	27653.15	0.015	0.616	0.016
350	2.68	2.56	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	27834.61	0.015	0.619	0.016
351	2.56	2.44	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	28016.08	0.015	0.623	0.016
352	2.44	2.32	0.34613	0.8	0.00864	0.16	1.06	37.80	4768.09	4498.20	40.07	28197.55	0.015	0.626	0.017
TOT						3.19			95361.86	89964.01					
AVG					0.0086		1.06	37.80			40.07				
CUM						37.21									

********** 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
333	4.581	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
334	4.462	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
335	4.343	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
336	4.224	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
337	4.105	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.21	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
338	3.986	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
339	3.867	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
340	3.748	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
341	3.629	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
342	3.510	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
343	3.391	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
344	3.272	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
345	3.153	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
346	3.034	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
347	2.915	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
348	2.796	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
349	2.677	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
350	2.558	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
351	2.439	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
352	2.320	5.98	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.66	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
333	4.581	30.90	40.10	198.37	7.93	8.20	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
334	4.462	30.90	40.10	198.37	7.93	8.00	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
335	4.343	30.90	40.10	198.37	7.93	7.83	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
336	4.224	30.90	40.10	198.37	7.93	7.67	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
337	4.105	30.90	40.10	198.37	7.93	7.53	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
338	3.986	30.90	40.10	198.37	7.93	7.41	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
339	3.867	30.90	40.10	198.37	7.93	7.30	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
340	3.748	30.90	40.10	198.37	7.93	7.20	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
341	3.629	30.90	40.10	198.37	7.93	7.11	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
342	3.510	30.90	40.10	198.37	7.93	7.03	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
343	3.391	30.90	40.10	198.37	7.93	6.96	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
344	3.272	30.90	40.10	198.37	7.93	6.90	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
345	3.153	30.90	40.10	198.37	7.93	6.85	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
346	3.034	30.90	40.10	198.37	7.93	6.80	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
347	2.915	30.90	40.10	198.37	7.93	6.75	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
348	2.796	30.90	40.10	198.37	7.93	6.71	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
349	2.677	30.90	40.10	198.37	7.93	6.68	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
350	2.558	30.90	40.10	198.37	7.93	6.65	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
351	2.439	30.90	40.10	198.37	7.93	6.62	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
352	2.320	30.90	40.10	198.37	7.93	6.60	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

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FINAL REPORT    BAYOU CUTOFF                                    WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 14    FOLSE: RKM 2.32 TO COMPANY CANAL                WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI
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********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
353	UPR RCH	0.34613	30.90	40.10	198.37	7.93	6.60	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	21.00	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
353	2.32	2.20	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	28380.79	0.015	0.630	0.017
354	2.20	2.09	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	28564.04	0.015	0.633	0.017
355	2.09	1.97	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	28747.28	0.015	0.637	0.017
356	1.97	1.86	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	28930.52	0.015	0.640	0.017
357	1.86	1.74	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	29113.77	0.016	0.644	0.017
358	1.74	1.62	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	29297.01	0.016	0.647	0.017
359	1.62	1.51	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	29480.26	0.016	0.651	0.017
360	1.51	1.39	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	29663.50	0.016	0.654	0.017
361	1.39	1.28	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	29846.74	0.016	0.658	0.017
362	1.28	1.16	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	30029.99	0.016	0.661	0.017
363	1.16	1.04	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	30213.23	0.016	0.665	0.018
364	1.04	0.93	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	30396.48	0.016	0.668	0.018
365	0.93	0.81	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	30579.72	0.016	0.672	0.018
366	0.81	0.70	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	30762.96	0.016	0.675	0.018
367	0.70	0.58	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	30946.21	0.017	0.679	0.018
368	0.58	0.46	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	31129.45	0.017	0.682	0.018
369	0.46	0.35	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	31312.70	0.017	0.686	0.018
370	0.35	0.23	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	31495.94	0.017	0.689	0.018
371	0.23	0.12	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	31679.19	0.017	0.693	0.018
372	0.12	0.00	0.34613	0.8	0.00864	0.16	1.06	37.80	4647.89	4384.80	40.07	31862.43	0.017	0.696	0.018
TOT						3.11			92957.76	87695.99					
AVG					0.0086		1.06	37.80			40.07				
CUM						40.32									

********** 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
353	2.204	6.04	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
354	2.088	6.11	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
355	1.972	6.18	0.79	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
356	1.856	6.25	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
357	1.740	6.31	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
358	1.624	6.38	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00

359	1.508	6.45	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
360	1.392	6.52	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
361	1.276	6.59	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
362	1.160	6.67	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
363	1.044	6.74	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
364	0.928	6.81	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
365	0.812	6.89	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
366	0.696	6.96	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.49	1.49	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
367	0.580	7.04	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.50	1.50	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
368	0.464	7.12	0.80	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.53	1.53	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
369	0.348	7.19	0.81	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.59	1.59	0.20	0.39	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
370	0.232	7.27	0.81	0.19	0.26	0.00	0.05	0.26	0.00	1.47	1.75	1.75	0.20	0.39	0.00	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
371	0.116	7.35	0.81	0.20	0.26	0.00	0.05	0.26	0.00	1.47	2.17	2.17	0.20	0.39	0.00	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
372	0.000	7.43	0.81	0.20	0.26	0.00	0.05	0.26	0.00	1.47	3.24	3.24	0.20	0.39	0.00	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.66	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
353	2.204	30.90	38.10	198.37	7.93	6.58	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
354	2.088	30.90	36.10	198.37	7.93	6.58	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
355	1.972	30.91	34.10	198.37	7.93	6.58	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
356	1.856	30.91	32.10	198.37	7.93	6.59	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
357	1.740	30.91	30.10	198.37	7.93	6.61	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
358	1.624	30.91	28.10	198.37	7.93	6.63	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
359	1.508	30.91	26.10	198.37	7.93	6.66	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
360	1.392	30.92	24.10	198.37	7.93	6.69	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
361	1.276	30.92	22.10	198.37	7.93	6.73	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
362	1.160	30.92	20.10	198.37	7.94	6.77	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
363	1.044	30.92	18.10	198.37	7.94	6.81	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
364	0.928	30.92	16.10	198.37	7.94	6.85	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
365	0.812	30.93	14.10	198.39	7.94	6.90	0.05	0.03	0.05	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
366	0.696	30.93	12.10	198.42	7.96	6.95	0.06	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
367	0.580	30.93	10.10	198.49	7.99	6.99	0.08	0.04	0.08	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
368	0.464	30.93	8.10	198.68	8.08	7.01	0.13	0.08	0.13	0.08	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
369	0.348	30.93	6.10	199.14	8.29	7.00	0.28	0.16	0.28	0.16	0.06	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
370	0.232	30.94	4.10	200.27	8.81	6.89	0.66	0.36	0.66	0.36	0.14	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
371	0.116	30.94	2.10	203.04	10.07	6.56	1.64	0.89	1.64	0.89	0.37	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
372	0.000	30.94	0.10	209.78	13.15	5.80	4.20	2.24	4.20	2.24	0.97	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

STREAM SUMMARY
BAYOU CUTOFF

WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
WATER QUALITY SUMMER PROJECTION RUN WITH 90% REDUCTION AND NO DI

TRAVEL TIME = 40.32 DAYS

MAXIMUM EFFLUENT = 0.82 PERCENT

FLOW	=	0.34330	TO	0.34613	m³/s
DISPERSION	=	0.3561	TO	1.3944	m²/s
VELOCITY	=	0.00536	TO	0.06382	m/s
DEPTH	=	0.55	TO	1.58	m

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 WIDTH             =   9.80    TO   40.92      m

 BOD DECAY         =    0.19   TO    0.20      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    0.43   TO    3.24      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =    0.53   TO    1.86      per day
 BOD SETTLING      =    0.26   TO    0.26      per day
 NBOD DECAY        =    0.19   TO    0.21      per day
 NBOD SETTLING     =    0.39   TO    0.39      per day

 TEMPERATURE       =   30.90   TO   30.94      deg C
 DISSOLVED OXYGEN  =    4.87   TO    8.48      mg/L


     .....EXECUTION COMPLETED
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Appendix D4 – Summer Projection without Dischargers Justifications

Bayou Folse/Cutoff 120302 Summer Projection With No Dischargers Justification			
DATA TYPE 3 - PROGRAM CONSTANTS			
CONSTANT NAME	VALUE	UNITS	DATA SOURCE
DISPERSION EQUATION	3		Equation used to account for all modes of transport.
HEADWATER EXCHANGE RATIO	1		This is done to depict dispersive boundaries - Company Canal and ICWW.
TIDE HEIGHT	0.0426		USGS Site - Company Canal at Salt Water Barrier
TIDAL PERIOD	26		USGS Site - Company Canal at Salt Water Barrier
PERIOD OF TIDAL RISE	12		USGS Site - Company Canal at Salt Water Barrier
K2 MAXIMUM	25	1/day at 20 deg C	EPA Policy in the absence of a measured value.
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.
SETTLING RATE UNITS	2		By making the settling rate a velocity the rate becomes dependent upon the depth.
WIND VELOCITY	0.68		Calculated from Houma Weather Station.
KL MINIMUM	0.7	m/day	The minimum KL of 2.3 ft/day converted to 0.70 m/day.

Bayou Folse/Cutoff 120302 Summer Projection With No Dischargers Justification						
DATA TYPE 8 - REACH IDENTIFICATION DATA						
Reach	**ID**	**Name**	**Upstream River Kilometer**	**Downstream River Kilometer**	**Element Length, meters**	**Data Source**
1	BC	Thibodaux to Dugas Ditch	33.20	31.24	40.0000	ARC MAP Calc.
2	BC	Dugas Ditch to Arpent Canal	31.24	28.66	60.0000	ARC MAP Calc.
3	BC	Arpent Canal to Thoroughbred Canal	28.66	27.62	80.0000	ARC MAP Calc.
4	BC	Thoroughbred Canal to RKM 24.66	27.62	24.66	80.0000	ARC MAP Calc.
5	BC	RKM 24.66 to St. Charles	24.66	21.78	80.0000	ARC MAP Calc.
6	BC	St. Charles to RKM 19.28	21.78	19.28	100.0000	ARC MAP Calc.
7	BC	RKM 19.28 to RKM 16.28	19.28	16.80	80.0000	ARC MAP Calc.
8	BC	RKM 16.28 to Bayou Folse	16.80	14.30	100.0000	ARC MAP Calc.
9	BF	Theriot Canal to RKM 12.3	14.30	12.30	100.0000	ARC MAP Calc.
10	BF	RKM 12.3 to RKM 10.20	12.30	10.20	100.0000	ARC MAP Calc.
11	BF	RKM 10.20 to RKM 7.40	10.20	7.40	200.0000	ARC MAP Calc.
12	BF	RKM 7.40 to Raceland Canal	7.40	4.70	150.0000	ARC MAP Calc.
13	BF	Raceland Canal to RKM 2.32	4.70	2.32	119.0000	ARC MAP Calc.
14	BF	RKM 2.32 to Company Canal	2.32	0.00	116.0000	ARC MAP Calc.

Bayou Folse/Cutoff 120302 Summer Projection With No Dischargers Justification

		Data Type 9 - Advective Hydraulic Coefficients							
Reach	**Name**	**Width Coeff. "a"**	**Width Exp. "b"**	**Width Const. "c"**	**Data Source**	**Depth Coeff. "d"**	**Depth Exp. "e"**	**Depth Const. "f"**	**Data Source**
1	Thibodaux to Dugas Ditch	0.806	1	9.520	BCUT-01	0.143	1	0.5	BCUT-01
2	Dugas Ditch to Arpent Canal	0.942	1	14.260	BCUT-02	0.07	1	0.960	BCUT-02
3	Arpent Canal to Thoroughbred Canal	0.4	1	20.310	BCUT-03	0.05	1	1.180	BCUT-03
4	Thoroughbred Canal to RKM 24.66	0.4	1	20.310	BCUT-03	0.05	1	1.180	BCUT-03
5	RKM 24.66 to St. Charles	0.762	1	24.380	BCUT-04	0.039	1	1.280	BCUT-04
6	St. Charles to RKM 19.28	0.029	1	24.550	BCUT-06	0.028	1	1.410	BCUT-06
7	RKM 19.28 to RKM 16.28	0.029	1	24.550	BCUT-06	0.028	1	1.410	BCUT-06
8	RKM 16.28 to Bayou Folse	0.029	1	24.550	BCUT-06	0.028	1	1.410	BCUT-06
9	Theriot Canal to RKM 12.3	0.067	1	26.140	BF-03	0.025	1	1.520	BF-03
10	RKM 12.3 to RKM 10.20	0.067	1	26.140	BF-03	0.025	1	1.520	BF-03
11	RKM 10.20 to RKM 7.40	0.333	1	40.800	BF-02	0.021	1	1.570	BF-02
12	RKM 7.40 to Raceland Canal	0.333	1	40.800	BF-02	0.021	1	1.570	BF-02
13	Raceland Canal to RKM 2.32	0	0	37.800	BF-01	0	0	1.060	BF-01
14	RKM 2.32 to Company Canal	0	0	37.800	BF-01	0	0	1.060	BF-01

Bayou Folse/Cutoff 120302 Summer Projection With No Dischargers Justification							
DATA TYPE 10 - DISPERSIVE HYDRAULIC COEFFICIENTS							
Reach	Tidal Range	Data Source	a	b	c	d	Data Source
1	0.657	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
2	0.670	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
3	0.682	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
4	0.697	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
5	0.720	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
6	0.744	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
7	0.768	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
8	0.795	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
9	0.819	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
10	0.843	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
11	0.874	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
12	0.910	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
13	0.947	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
14	0.981	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion

Bayou Folse/Cutoff 120302 Summer Projection With No Dischargers Justification								
DATA TYPE 11-INITIAL CONDITIONS								
Reach	Name	Temp, deg C	DO, mg/l	Data Source	Sal, ppt	Data Source	Chlorophyll a	Data Source
1	Thibodaux to Dugas Ditch	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment	0.22	BCUT-01 Insitu	2.00	Calibration
2	Dugas Ditch to Arpent Canal	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BCUT-02 Insitu	2.00	Calibration
3	Arpent Canal to Thoroughbred Canal	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.07	BCUT-03 Insitu	2.00	Calibration
4	Thoroughbred Canal to RKM 24.66	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.07	BCUT-03 Insitu	3.20	Calibration
5	RKM 24.66 to St. Charles	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.12	BCUT-04 Insitu	3.50	Calibration
6	St. Charles to RKM 19.28	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.12	BCUT-04 Insitu	4.00	Calibration
7	RKM 19.28 to RKM 16.28	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.12	BCUT-04 Insitu	5.00	Calibration
8	RKM 16.28 to Bayou Folse	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-03 Insitu	12.00	Calibration
9	Theriot Canal to RKM 12.3	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-03 Insitu	19.20	Calibration
10	RKM 12.3 to RKM 10.20	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-03 Insitu	19.50	Calibration
11	RKM 10.20 to RKM 7.40	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-02 Insitu	19.50	Calibration
12	RKM 7.40 to Raceland Canal	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-02 Insitu	20.00	Calibration
13	Raceland Canal to RKM 2.32	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.10	BFOL-01 Insitu	21.00	Calibration
14	RKM 2.32 to Company Canal	30.94	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.10	BFOL-01 Insitu	21.00	Calibration

		DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS				
REACH	NAME	K2 OPT	Data Source	a	BKGRND SOD, gmO2/m2/day at 20 deg C	Data Source
1	Thibodaux to Dugas Ditch	11	Texas Equation		0.250	90% Reduction
2	Dugas Ditch to Arpent Canal	11	Texas Equation		0.250	90% Reduction
3	Arpent Canal to Thoroughbred Canal	11	Texas Equation		0.125	90% Reduction
4	Thoroughbred Canal to RKM 24.66	11	Texas Equation		0.313	90% Reduction
5	RKM 24.66 to St. Charles	11	Texas Equation		0.500	90% Reduction
6	St. Charles to RKM 19.28	11	Texas Equation		0.738	90% Reduction
7	RKM 19.28 to RKM 16.28	11	Texas Equation		0.738	90% Reduction
8	RKM 16.28 to Bayou Folse	11	Texas Equation		0.738	90% Reduction
9	Theriot Canal to RKM 12.3	11	Texas Equation		0.738	90% Reduction
10	RKM 12.3 to RKM 10.20	11	Texas Equation		0.688	90% Reduction
11	RKM 10.20 to RKM 7.40	11	Texas Equation		0.250	90% Reduction
12	RKM 7.40 to Raceland Canal	11	Texas Equation		0.250	90% Reduction
13	Raceland Canal to RKM 2.32	11	Texas Equation		0.738	90% Reduction
14	RKM 2.32 to Company Canal	11	Texas Equation		0.738	90% Reduction

Bayou Folse/Cutoff 120302 Summer Projection With No		Bayou Folse/Cutoff 120302 Summer Projection With No Dischargers Justification							
		DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS							
REACH	NAME	Aerobic BOD1 Dec Rate (1/day)	Data Source	BOD1 SETT RATE (1/day)	Data Source	Aerobic BOD2 Dec Rate (1/day)	Data Source	BOD2 SETT RATE (1/day)	Data Source
1	Thibodaux to Dugas Ditch	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
2	Dugas Ditch to Arpent Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
3	Arpent Canal to Thoroughbred Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
4	Thoroughbred Canal to RKM 24.66	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
5	RKM 24.66 to St. Charles	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
6	St. Charles to RKM 19.28	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
7	RKM 19.28 to RKM 16.28	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
8	RKM 16.28 to Bayou Folse	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
9	Theriot Canal to RKM 12.3	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
10	RKM 12.3 to RKM 10.20	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
11	RKM 10.20 to RKM 7.40	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
12	RKM 7.40 to Raceland Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
13	Raceland Canal to RKM 2.32	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
14	RKM 2.32 to Company Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration

Bayou Folse/Cutoff 120302 Summer Projection With No Dischargers Justification					
DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS					
Reach	**Name**	**NBOD decay rate, 1/day**	**Data Source**	**NBOD settling rate, 1/day**	**Data Source**
1	Thibodaux to Dugas Ditch	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
2	Dugas Ditch to Arpent Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
3	Arpent Canal to Thoroughbred Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
4	Thoroughbred Canal to RKM 24.66	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
5	RKM 24.66 to St. Charles	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
6	St. Charles to RKM 19.28	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
7	RKM 19.28 to RKM 16.28	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
8	RKM 16.28 to Bayou Folse	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
9	Theriot Canal to RKM 12.3	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
10	RKM 12.3 to RKM 10.20	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
11	RKM 10.20 to RKM 7.40	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
12	RKM 7.40 to Raceland Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
13	Raceland Canal to RKM 2.32	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
14	RKM 2.32 to Company Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration

Bayou Folse/Cutoff 120302 Summer Projection with no dischargers Justification					
DATA TYPE 19 - NONPOINT SOURCES					
Reach	**Reach Name**	**UCBOD1, kg/day**	**UCBOD2, kg/day**	**NBOD, kg/day**	**Data Source**
1	Thibodaux to Dugas Ditch	1.418	1.182	0.000	90% Reduction
2	Dugas Ditch to Arpent Canal	1.058	0.423	0.000	90% Reduction
3	Arpent Canal to Thoroughbred Canal	0.470	0.251	0.502	90% Reduction
4	Thoroughbred Canal to RKM 24.66	1.785	2.142	0.446	90% Reduction
5	RKM 24.66 to St. Charles	2.846	2.135	0.071	90% Reduction
6	St. Charles to RKM 19.28	1.519	0.127	0.380	90% Reduction
7	RKM 19.28 to RKM 16.28	1.883	0.439	0.377	90% Reduction
8	RKM 16.28 to Bayou Folse	1.139	0.380	0.886	90% Reduction
9	Theriot Canal to RKM 12.3	2.670	0.238	0.811	90% Reduction
10	RKM 12.3 to RKM 10.20	3.004	2.103	0.751	90% Reduction
11	RKM 10.20 to RKM 7.40	5.104	2.552	1.659	90% Reduction
12	RKM 7.40 to Raceland Canal	4.101	1.640	1.599	90% Reduction
13	Raceland Canal to RKM 2.32	1.990	0.663	0.284	90% Reduction
14	RKM 2.32 to Company Canal	1.940	0.600	0.277	90% Reduction

Bayou Folse/Cutoff 120302 Summer Projection With No Dischargers Justification

DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES

Headwater Name	Element No.	Logical Unit Number	Headwater Flow, cms	Data Source	Temp, deg C	Salinity	Conductivity	Chlorides	Data Source
Bayou Cutoff	1	1	0.3433	1/3 Average Tidal Flow as per regs	30.94	0.22	200.0	8.00	90th percentile temp for WQN 0341 for Temp, Site BCUT-02 - Insitu for Salinity, Lab for Chlorides

Bayou Folse/Cutoff 120302 Summer Projection With No Dischargers Justification

DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN

Headwater Name	Dissolved Oxygen, mg/L	UCBOD1, mg/l	UCBOD2, mg/l	NBOD, mg/l	Data Source
Bayou Cutoff	6.69	0.74	0.53	0.30	DO is 90% DO Sat for WQN 0341; CBOD1, CBOD2, and NBOD - 90% Reduction

Bayou Folse/Cutoff 120302 Summer Projection With No Dischargers Justification

	DATA TYPES 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES				
Wasteload / Withdrawal Name	**EL #**	**Flow, cms**	**Data Source**	**Temperature, deg C**	**Data Source**
Arpent Canal	93	0.00283	LTP Default	30.94	90th Percentile Temp for WQN 0341

Bayou Folse/Cutoff 120302 Summer Projection With No Dischargers Justification

DATA TYPES 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN						
Wasteload / Withdrawal Name	**EL #**	**DO, mg/l**	**UCBOD1, mg/l**	**UCBOD2, mg/l**	**UNBOD, mg/l**	**Data Source**
Arpent Canal	93	5.00	0.25	0.13	0.06	DO Standard for Subsegment 120302; CBOD1, CBOD2, and NBOD - 90% Reduction

Bayou Folse/Cutoff 120302 Summer Projection With No Dischargers Justification

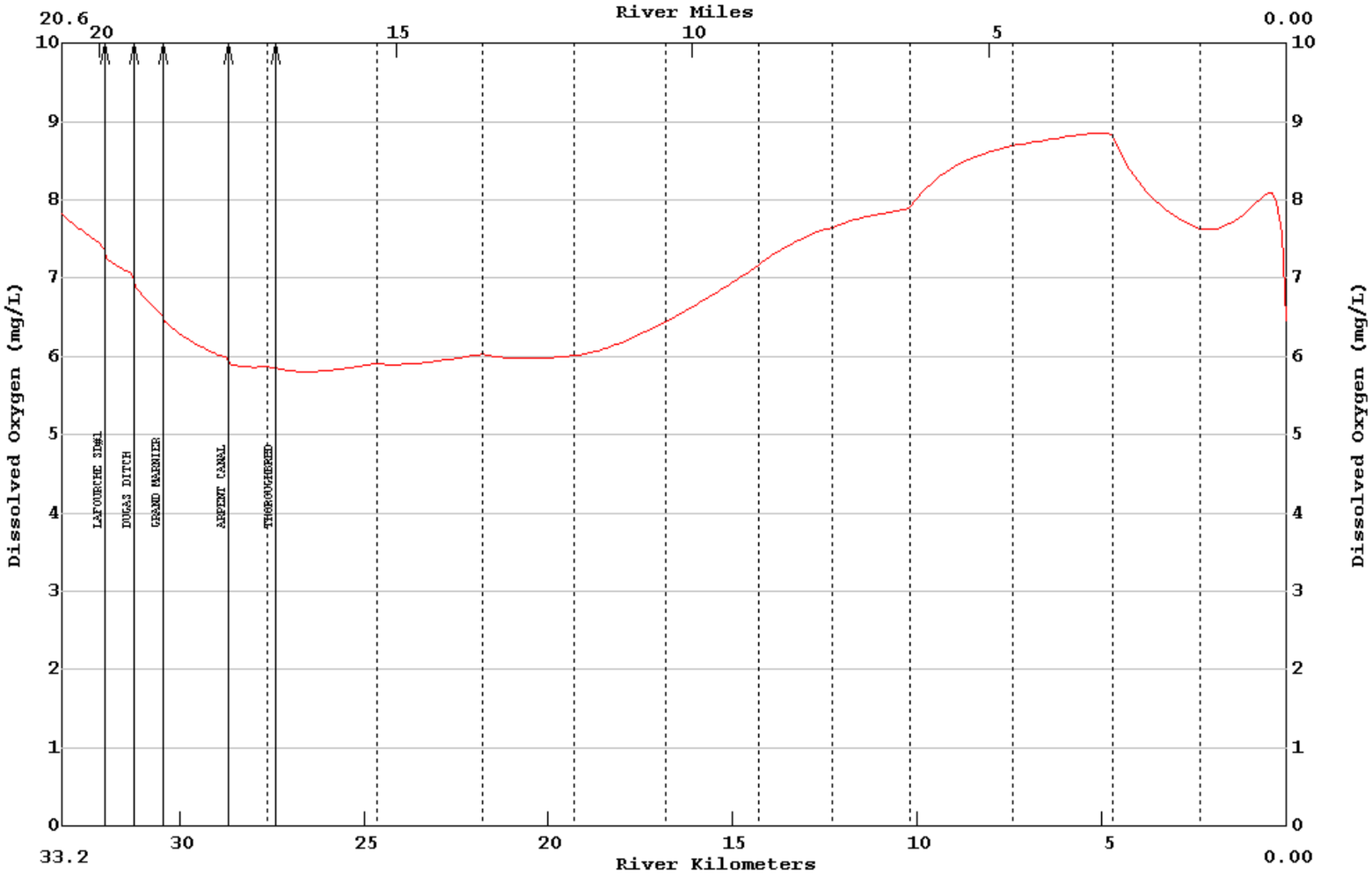
DATA TYPES 27 - LOWER BOUNDARY CONDITIONS

Parameter	Value	Units	Data Source
TEMPERATURE	30.94	^{O}C	90th Percentile Temp for WQN 0341
SALINITY	0.10	ppt	BFOL-01 Insitu
CHLORIDES	16.9	ppm	BFOL-01 Lab Data
CONDUCTIVITY	218.00	umhos/cm	BFOL-01 Insitu
DISSOLVED OXYGEN	5.00	mg/L	DO Standard for subsegment 120302
CBOD1	7.540	mg/L	BFOL-01 Lab Data
CBOD2	3.960	mg/L	BFOL-01 Lab Data
CHLOROPHYLL A	21.0	ug/L	Calibration
NBOD	1.760	mg/L	BFOL-01 Lab Data

Appendix D5 – Winter Output Graphs and Input, Overlay, and Output Files

Final Report
Bayou Folse/Bayou Cutoff Watershed TMDL
Subsegment 120302
Originated: February 6, 2008
Modified: March 31, 2008

LA-QUAL Version 8.11 Run at 10:11 on 02/25/2008
WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION min= 5.81 max= 8.86
WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302



BAYOU FOLSE/BAYOU CUTOFF 120302 WINTER PROJECTION INPUT FILE

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CNTROL01     WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
CNTROL02     WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION
CNTROL12 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CONDUCTIVITY               IN uS/cm
MODOPT04 YES CONSERVATIVE MATERIAL II = CHLORIDES                  IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07 YES BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT09  NO PHOSPHORUS
MODOPT10  NO CHLOROPHYLL A
MODOPT11  NO MACROPHYTES
MODOPT12  NO COLIFORM
MODOPT13  NO NONCONSERVATIVE MATERIAL
ENDATA02
PROGRAM  DISPERSION EQUATION                =     3.0
PROGRAM  OCEAN EXCHANGE RATIO               =     1.0
PROGRAM  TIDE HEIGHT                        =   0.0426
PROGRAM  TIDAL PERIOD                       =     26.0
PROGRAM  PERIOD OF TIDAL RISE               =     12.0
PROGRAM  K2 MAXIMUM                         =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD       =     2.
PROGRAM  SETTLING RATE UNITS                =     2.
!24 hour wind speed for Houma Weather Station on 6/30/2004
PROGRAM  WIND VELOCITY                      =     0.68
PROGRAM  KL MINIMUM                         =     0.70
ENDATA03
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------*********----------
```

```
!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID   1   BC CUTOFF: THIBODAUX TO DUGAS DITCH    33.20      31.24    0.0400
REACH ID   2   BC CUTOFF: DUGAS DITCH TO ARPENT C     31.24      28.66    0.0600
REACH ID   3   BC CUTOFF: ARPENT TO THOROUGHBRED      28.66      27.62    0.0800
REACH ID   4   BC CUTOFF:THOROUGHBRED TO RKM 24.66    27.62      24.66    0.0800
REACH ID   5   BC CUTOFF: RKM 24.66 TO ST CHAS        24.66      21.78    0.0800
REACH ID   6   BC CUTOFF: ST CHAS TO RKM 19.28        21.78      19.28    0.1000
REACH ID   7   BC CUTOFF: RKm 19.28 TO RKM 16.28      19.28      16.80    0.0800
REACH ID   8   BC CUTOFF: RKM 16.28 TO BAYOU FOLSE    16.80      14.30    0.1000
REACH ID   9   BF FOLSE: THERIOT CANAL TO RKM 12.3    14.30      12.30    0.1000
REACH ID  10   BF FOLSE: RKM 12.30 TO RKM 10.20       12.30      10.20    0.1000
REACH ID  11   BF FOLSE: RKM 10.20 TO RKM 7.40        10.20       7.40    0.2000
REACH ID  12   BF FOLSE: RKM 7.40 TO RACELAND C.       7.40       4.70    0.1500
REACH ID  13   BF FOLSE: RACELAND C. TO RKM 2.32       4.70       2.32    0.1190
REACH ID  14   BF FOLSE: RKM 2.32 TO COMPANY CANAL     2.32       0.00    0.1160
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
!LAQUAL reaches are all less than 3 kilometers long to allow flexibility in varying stream geometry.
!Dugas Ditch, Arpent Canal, and Thoroughbred Ditch are modeled with estimated geometry.
!The rating curves, W=aQ**b+c and D=dQ**e+f are developed from measured cross sections.
!Bayou Cutoff BCUT-01
HYDR-1      1   0.806  1.00    9.52  0.143  1.00    0.50          0.050
!Bayou Cutoff BCUT-02
HYDR-1      2   0.942  1.00   14.26  0.070  1.00    0.96          0.050
!Bayou Cutoff BCUT-03
HYDR-1      3   0.400  1.00   20.31  0.050  1.00    1.18          0.050
!Bayou Cutoff BCUT-03
HYDR-1      4   0.400  1.00   20.31  0.050  1.00    1.18          0.050
!Bayou Cutoff BCUT-04
HYDR-1      5   0.762  1.00   24.38  0.039  1.00    1.28          0.050
!Bayou Cutoff BCUT-06
HYDR-1      6   0.029  1.00   24.55  0.028  1.00    1.41          0.050
!Bayou Cutoff BCUT-06
HYDR-1      7   0.029  1.00   24.55  0.028  1.00    1.41          0.050
```

```
!Bayou Cutoff BCUT-06
HYDR-1      8   0.029  1.00   24.55  0.028  1.00    1.41          0.050
!Bayou Folse  BF-03
HYDR-1      9   0.067  1.00   26.14  0.025  1.00    1.52          0.050
!Bayou Folse  BF-03
HYDR-1     10   0.067  1.00   26.14  0.025  1.00    1.52          0.050
!Bayou Folse  BF-02
HYDR-1     11   0.333  1.00   40.80  0.021  1.00    1.57          0.050
!Bayou Folse  BF-02
HYDR-1     12   0.333  1.00   40.80  0.021  1.00    1.57          0.050
!Bayou Folse  BF-01
HYDR-1     13   0.0    0.0    37.80  0.0    0.00    1.06          0.050
!Bayou Folse  BF-01
HYDR-1     14   0.0    0.0    37.80  0.0    0.00    1.06          0.050
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
! Tidal fraction was obtained from Dynhyd Hydrologic Calibration.
! The equation for tidal fraction for mainstem was determined to be:
! [(0.00015758)*(RKM**2)] - [(0.01573894)*(RKM)] + [1.0]
! Middle of Reach 1 is RKM 32.2
HYDR-2      1  0.657  36.000   0.833    0.0       1.0
! Middle of Reach 3 is RKM 30.0
HYDR-2      2  0.670  36.000   0.833    0.0       1.0
! Middle of Reach 5 is RKM 28.1
HYDR-2      3  0.682  36.000   0.833    0.0       1.0
! Middle of Reach 7 is RKM 26.1
HYDR-2      4  0.697  36.000   0.833    0.0       1.0
! Middle of Reach 8 is RKM 23.2
HYDR-2      5  0.720  36.000   0.833    0.0       1.0
! Middle of Reach 9 is RKM 20.5
HYDR-2      6  0.744  36.000   0.833    0.0       1.0
! Middle of Reach 10 is RKM 18.0
HYDR-2      7  0.768  36.000   0.833    0.0       1.0
! Middle of Reach 11 is RKM 15.4
HYDR-2      8  0.795  36.000   0.833    0.0       1.0
```

```
! Middle of Reach 12 is RKM 13.3
HYDR-2      9  0.819  36.000   0.833    0.0       1.0
! Middle of Reach 13 is RKM 11.2
HYDR-2     10  0.843  36.000   0.833    0.0       1.0
! Middle of Reach 14 is RKM 8.8
HYDR-2     11  0.874  36.000   0.833    0.0       1.0
! Middle of Reach is 15 RKM 6.1
HYDR-2     12  0.910  36.000   0.833    0.0       1.0
! Middle of Reach is 16 RKM 3.5
HYDR-2     13  0.947  36.000   0.833    0.0       1.0
! Middle of Reach 17 is RKM 1.2
HYDR-2     14  0.981  36.000   0.833    0.0       1.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO                           CHL A
!CHL A is achieved through calibration.  There are only two sample points on the mainstem.
!The two sample points for CHL A are BCUT-03 and BFOL-03.
!All salinity values are from insitu.
!Temp for all reaches set to 90th percentile temp for WQN 0341
!DO for all reaches is the DO criteria for subsegment 120302
INITIAL     1      22.24   0.22   5.00                           2.0
INITIAL     2      22.24   0.09   5.00                           2.0
INITIAL     3      22.24   0.07   5.00                           2.0
!BCUT-03 for CHL A
INITIAL     4      22.24   0.07   5.00                           3.2
INITIAL     5      22.24   0.12   5.00                           3.5
INITIAL     6      22.24   0.12   5.00                           4.0
INITIAL     7      22.24   0.12   5.00                           5.0
INITIAL     8      22.24   0.09   5.00                          12.0
!BFOL-03 for CHL A
INITIAL     9      22.24   0.09   5.00                          19.2
INITIAL    10      22.24   0.09   5.00                          19.5
INITIAL    11      22.24   0.09   5.00                          19.5
INITIAL    12      22.24   0.09   5.00                          20.0
INITIAL    13      22.24   0.10   5.00                          21.0
INITIAL    14      22.24   0.10   5.00                          21.0
ENDATA11
```

```
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----******----- ******-------*******-------*******-------*******-------***
!Texas equation was determined to be most suitable for this model.
!Settling rates were determined by calibration.
!Decay rate is the average decay rates of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02,
!BFOL-03, CC-01, CC-02, AND AC-01.
!               REA                          BOD 1  BOD 1 BOD1SET       BOD 2    BOD 2 BOD2SET
!          R#   EQ                       SOD  DECAY  SETT   TO SOD       DECAY    SETT   TO SOD
COEF-1      1   11.0                    0.250  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      2   11.0                    0.250  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      3   11.0                    0.125  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      4   11.0                    0.313  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      5   11.0                    0.500  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      6   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      7   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      8   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      9   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     10   11.0                    0.688  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     11   11.0                    0.250  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     12   11.0                    0.250  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     13   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     14   11.0                    0.738  0.118   0.20    1.0         0.031   0.20    1.0
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -------*******-------*******-------*******-------
!              NBOD     NBOD
!          R#  DECAY    SETT
!Settling rates were determined by calibration.
!Decay rate is the average decay rates of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02,
!BFOL-03, CC-01, CC-02, AND AC-01.
COEF-2      1    0.100   0.30
COEF-2      2    0.100   0.30
COEF-2      3    0.100   0.30
COEF-2      4    0.100   0.30
COEF-2      5    0.100   0.30
COEF-2      6    0.100   0.30
```

```
COEF-2      7    0.100   0.30
COEF-2      8    0.100   0.30
COEF-2      9    0.100   0.30
COEF-2     10    0.100   0.30
COEF-2     11    0.100   0.30
COEF-2     12    0.100   0.30
COEF-2     13    0.100   0.30
COEF-2     14    0.100   0.30
ENDATA13
ENDATA14
ENDATA15
ENDATA16
ENDATA17
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  ---------*********---------*********---------*********
!          R#     BOD 1    NBOD                                BOD 2
NONPOINT    1     1.418    0.000                               1.182
NONPOINT    2     1.058    0.000                               0.423
NONPOINT    3     0.470    0.502                               0.251
NONPOINT    4     1.785    0.446                               2.142
NONPOINT    5     2.846    0.071                               2.135
NONPOINT    6     1.519    0.380                               0.127
NONPOINT    7     1.883    0.377                               0.439
NONPOINT    8     1.139    0.886                               0.380
NONPOINT    9     2.670    0.811                               0.238
NONPOINT   10     3.004    0.751                               2.103
NONPOINT   11     5.104    1.659                               2.552
NONPOINT   12     4.101    1.599                               1.640
NONPOINT   13     1.990    0.284                               0.663
NONPOINT   14     1.940    0.277                               0.660
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                      FLOW    TEMP  SALIN   COND    CHLORIDES
!Bayou Cutoff headwater average flow = 1.03 cms
```

```
!As per regs projection flow = 1/3 avg tidal flow = 0.3433 cms
!BCUT-01 Temp = 90th percentile temp for WQN 0341
!Insitu for Conductivity and Salinity, Lab for Chlorides
HDWTR-1     1  BAYOU CUTOFF             0.343300  22.240    0.22   200.0     8.0
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********---------********
!          E#      DO      BOD 1    NBOD                      BOD 2
!BCUT-01 DO = 90% DO Sat for WQN 0341 Lab for BOD1, BOD2, and NBOD.
HDWTR-2     1       7.83     0.74     0.30                        0.53
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#             CHL A
HDWTR-3     1                 0.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------********---------********---------********
!          E#     NAME               FLOW      TEMP   SALINITY   COND  CHLORIDES
!Lafourche SD#1 has a design flow of 180,000 gpd = 0.007886 cms
WSTLD-1    30  LAFOURCHE SD#1      0.00986   30.00
!Dugas Ditch
!Lafourche WD#1 has a design flow of 108,000 gpd = 0.004732 cms
!Lafourche SD#14 has a design flow of  27,200 gpd = 0.001192 cms
!Community Sewage Service has a design flow of 20,800 gpd = 0.000911 cms
WSTLD-1    50  DUGAS DITCH         0.0085    30.00
!Grand Marnier has a design flow of 84,400 gpd = 0.003698 cms
WSTLD-1    63  GRAND MARNIER       0.00462   30.00
!Harlan's MHP is located on AC has a design flow of 10,000 gpd = 0.000438 cms
!AC-01 Insitu for Temperature
WSTLD-1    93  ARPENT CANAL        0.0283    22.24
!Thoroughbred Park Sub has a design flow of 50,400 gpd = 0.002208 cms
WSTLD-1   109  THOROUGHBRED        0.00275   30.00
```

```
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------*********-----*********---------*****---------*********
!          E#       DO    BOD 1         NBOD                            BOD 2
!Permit Limits
WSTLD-2    30        2.0   23.0          43.0                                0.0
!Permit Limits
WSTLD-2    50        2.0   33.10         61.80                               0.0
!Permit Limits
WSTLD-2    63        2.0   23.0          43.0                                0.0
!Survey measurement for AC because it if between discharger and Bayou Folse
WSTLD-2    93        5.0    0.25          0.06                              0.13
!Permit Limits
WSTLD-2   109        5.0    23.0          43.0                                0.0
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!        ****  ---------*********---------*********
!          E#            CHL A
WSTLD-3    30
WSTLD-3    50
WSTLD-3    63
WSTLD-3    93
WSTLD-3   109
ENDATA26
!90th Percentile Temp for WQN 0341
LOWER BC TEMPERATURE                       =  22.24
!BFOL-01 Insitu
LOWER BC SALINITY                          =   0.10
!BFOL-01 Insitu
LOWER BC CONSERVATIVE MATERIAL I           = 218.00
!BFOL-01 Lab Data
LOWER BC CONSERVATIVE MATERIAL II          =  16.90
!DO Criteria for subsegment 120302
LOWER BC DISSOLVED OXYGEN                  =   5.00
!BFOL-01 Lab Data
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND    =   7.54
```

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!BFOL-01 Lab Data
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =   3.96
!BFOL-01 Lab Data
LOWER BC NBOD                               =   1.76
!Calibration
LOWER BC CHLOROPHYLL A                      =  21.00
ENDATA27
ENDATA28
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
ENDATA30
ENDATA31
```

BAYOU FOLSE/BAYOU CUTOFF 120302 WINTER PROJECTION OUTPUT FILE

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

Input file is O:\Personal_Folders\Karen\Bayou Folse via Karen\Input Files\Folsewin90.txt
Output produced at 10:11 on 02/25/2008

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

CARD TYPE       CONTROL TITLES

TITLE01         WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
TITLE02         WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION
CNTROL12  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CONDUCTIVITY              IN uS/cm
MODOPT04  YES   CONSERVATIVE MATERIAL II = CHLORIDES                 IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07  YES   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
MODOPT09   NO   PHOSPHORUS
MODOPT10   NO   CHLOROPHYLL A
MODOPT11   NO   MACROPHYTES
MODOPT12   NO   COLIFORM
MODOPT13   NO   NONCONSERVATIVE MATERIAL
ENDATA02
```

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

PROGRAM         DISPERSION EQUATION                =         3.00000 (values entered as a function of D,Q,Vmean)
PROGRAM         OCEAN EXCHANGE RATIO               =         1.00000
PROGRAM         TIDE HEIGHT                        =         0.04260 meters
PROGRAM         TIDAL PERIOD                       =        26.00000 hours
PROGRAM         PERIOD OF TIDAL RISE               =        12.00000 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)
PROGRAM         WIND VELOCITY                      =         0.68000 meters/sec
PROGRAM         KL MINIMUM                         =         0.70000 meters/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   BC  CUTOFF: THIBODAUX TO DUGAS DITCH     33.20  TO   31.24   0.0400     1.96      49        1     49
REACH ID      2   BC  CUTOFF: DUGAS DITCH TO ARPENT C      31.24  TO   28.66   0.0600     2.58      43       50     92
REACH ID      3   BC  CUTOFF: ARPENT TO THOROUGHBRED       28.66  TO   27.62   0.0800     1.04      13       93    105
REACH ID      4   BC  CUTOFF:THOROUGHBRED TO RKM 24.66     27.62  TO   24.66   0.0800     2.96      37      106    142
REACH ID      5   BC  CUTOFF: RKM 24.66 TO ST CHAS         24.66  TO   21.78   0.0800     2.88      36      143    178
REACH ID      6   BC  CUTOFF: ST CHAS TO RKM 19.28         21.78  TO   19.28   0.1000     2.50      25      179    203
REACH ID      7   BC  CUTOFF: RKm 19.28 TO RKM 16.28       19.28  TO   16.80   0.0800     2.48      31      204    234
REACH ID      8   BC  CUTOFF: RKM 16.28 TO BAYOU FOLSE     16.80  TO   14.30   0.1000     2.50      25      235    259
REACH ID      9   BF  FOLSE: THERIOT CANAL TO RKM 12.3     14.30  TO   12.30   0.1000     2.00      20      260    279
REACH ID     10   BF  FOLSE: RKM 12.30 TO RKM 10.20        12.30  TO   10.20   0.1000     2.10      21      280    300
REACH ID     11   BF  FOLSE: RKM 10.20 TO RKM 7.40         10.20  TO    7.40   0.2000     2.80      14      301    314
REACH ID     12   BF  FOLSE: RKM 7.40 TO RACELAND C.        7.40  TO    4.70   0.1500     2.70      18      315    332
```

```
REACH ID     13   BF  FOLSE: RACELAND C. TO RKM 2.32        4.70  TO    2.32   0.1190     2.38      20      333    352
REACH ID     14   BF  FOLSE: RKM 2.32 TO COMPANY CANAL      2.32  TO    0.00   0.1160     2.32      20      353    372
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"

 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  1
HYDR-1        1   BC       0.806       1.000       9.520       0.143       1.000       0.500     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  2
HYDR-1        2   BC       0.942       1.000      14.260       0.070       1.000       0.960     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  3
HYDR-1        3   BC       0.400       1.000      20.310       0.050       1.000       1.180     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  4
HYDR-1        4   BC       0.400       1.000      20.310       0.050       1.000       1.180     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  5
HYDR-1        5   BC       0.762       1.000      24.380       0.039       1.000       1.280     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  6
HYDR-1        6   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  7
HYDR-1        7   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  8
HYDR-1        8   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  9
HYDR-1        9   BF       0.067       1.000      26.140       0.025       1.000       1.520     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 10
HYDR-1       10   BF       0.067       1.000      26.140       0.025       1.000       1.520     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 11
HYDR-1       11   BF       0.333       1.000      40.800       0.021       1.000       1.570     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 12
HYDR-1       12   BF       0.333       1.000      40.800       0.021       1.000       1.570     0.00000   0.050
HYDR-1       13   BF       0.000       0.000      37.800       0.000       0.000       1.060     0.00000   0.050
HYDR-1       14   BF       0.000       0.000      37.800       0.000       0.000       1.060     0.00000   0.050
ENDATA09

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

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                         RANGE        "A"            "B"            "C"            "D"

HYDR          1   BC      0.66       36.000         0.833          0.000          1.000
HYDR          2   BC      0.67       36.000         0.833          0.000          1.000
HYDR          3   BC      0.68       36.000         0.833          0.000          1.000
HYDR          4   BC      0.70       36.000         0.833          0.000          1.000
HYDR          5   BC      0.72       36.000         0.833          0.000          1.000
HYDR          6   BC      0.74       36.000         0.833          0.000          1.000
HYDR          7   BC      0.77       36.000         0.833          0.000          1.000
HYDR          8   BC      0.80       36.000         0.833          0.000          1.000
HYDR          9   BF      0.82       36.000         0.833          0.000          1.000
HYDR         10   BF      0.84       36.000         0.833          0.000          1.000
HYDR         11   BF      0.87       36.000         0.833          0.000          1.000
HYDR         12   BF      0.91       36.000         0.833          0.000          1.000
HYDR         13   BF      0.95       36.000         0.833          0.000          1.000
HYDR         14   BF      0.98       36.000         0.833          0.000          1.000
ENDATA10
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$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	BC	22.20	40.22	5.00	0.00	0.00	0.00	2.00	0.00
INITIAL	2	BC	22.20	40.09	5.00	0.00	0.00	0.00	2.00	0.00
INITIAL	3	BC	22.20	40.07	5.00	0.00	0.00	0.00	2.00	0.00
INITIAL	4	BC	22.20	40.07	5.00	0.00	0.00	0.00	3.20	0.00
INITIAL	5	BC	22.20	40.12	5.00	0.00	0.00	0.00	3.50	0.00
INITIAL	6	BC	22.20	40.12	5.00	0.00	0.00	0.00	4.00	0.00
INITIAL	7	BC	22.20	40.12	5.00	0.00	0.00	0.00	5.00	0.00
INITIAL	8	BC	22.20	40.09	5.00	0.00	0.00	0.00	12.00	0.00
INITIAL	9	BF	22.20	40.09	5.00	0.00	0.00	0.00	19.20	0.00
INITIAL	10	BF	22.20	40.09	5.00	0.00	0.00	0.00	19.50	0.00
INITIAL	11	BF	22.20	40.09	5.00	0.00	0.00	0.00	19.50	0.00
INITIAL	12	BF	22.20	40.09	5.00	0.00	0.00	0.00	20.00	0.00
INITIAL	13	BF	22.20	40.10	5.00	0.00	0.00	0.00	21.00	0.00
INITIAL	14	BF	22.20	40.10	5.00	0.00	0.00	0.00	21.00	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	BC	11 TEXAS	0.000	0.000	0.000	0.250	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	2	BC	11 TEXAS	0.000	0.000	0.000	0.250	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	3	BC	11 TEXAS	0.000	0.000	0.000	0.125	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	4	BC	11 TEXAS	0.000	0.000	0.000	0.313	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	5	BC	11 TEXAS	0.000	0.000	0.000	0.500	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	6	BC	11 TEXAS	0.000	0.000	0.000	0.738	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	7	BC	11 TEXAS	0.000	0.000	0.000	0.738	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	8	BC	11 TEXAS	0.000	0.000	0.000	0.738	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	9	BF	11 TEXAS	0.000	0.000	0.000	0.738	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	10	BF	11 TEXAS	0.000	0.000	0.000	0.688	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	11	BF	11 TEXAS	0.000	0.000	0.000	0.250	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	12	BF	11 TEXAS	0.000	0.000	0.000	0.250	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	13	BF	11 TEXAS	0.000	0.000	0.000	0.738	0.118	0.200	1.000	0.000	0.031	0.200	1.000	0.000
COEF-1	14	BF	11 TEXAS	0.000	0.000	0.000	0.738	0.118	0.200	1.000	0.000	0.031	0.200	1.000	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	BC	0.100	0.300	0.000	0.000	0.000	0.000	0.000
COEF-2	2	BC	0.100	0.300	0.000	0.000	0.000	0.000	0.000
COEF-2	3	BC	0.100	0.300	0.000	0.000	0.000	0.000	0.000
COEF-2	4	BC	0.100	0.300	0.000	0.000	0.000	0.000	0.000
COEF-2	5	BC	0.100	0.300	0.000	0.000	0.000	0.000	0.000
COEF-2	6	BC	0.100	0.300	0.000	0.000	0.000	0.000	0.000
COEF-2	7	BC	0.100	0.300	0.000	0.000	0.000	0.000	0.000
COEF-2	8	BC	0.100	0.300	0.000	0.000	0.000	0.000	0.000
COEF-2	9	BF	0.100	0.300	0.000	0.000	0.000	0.000	0.000
COEF-2	10	BF	0.100	0.300	0.000	0.000	0.000	0.000	0.000
COEF-2	11	BF	0.100	0.300	0.000	0.000	0.000	0.000	0.000

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COEF-2          12   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          13   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2          14   BF       0.100     0.300     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

ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

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   BC        1.42      0.00      0.00      0.00      0.00      1.18
NONPOINT          2   BC        1.06      0.00      0.00      0.00      0.00      0.42
NONPOINT          3   BC        0.47      0.50      0.00      0.00      0.00      0.25
NONPOINT          4   BC        1.78      0.45      0.00      0.00      0.00      2.14
NONPOINT          5   BC        2.85      0.07      0.00      0.00      0.00      2.13
NONPOINT          6   BC        1.52      0.38      0.00      0.00      0.00      0.13
NONPOINT          7   BC        1.88      0.38      0.00      0.00      0.00      0.44
NONPOINT          8   BC        1.14      0.89      0.00      0.00      0.00      0.38
NONPOINT          9   BF        2.67      0.81      0.00      0.00      0.00      0.24
NONPOINT         10   BF        3.00      0.75      0.00      0.00      0.00      2.10
NONPOINT         11   BF        5.10      1.66      0.00      0.00      0.00      2.55
NONPOINT         12   BF        4.10      1.60      0.00      0.00      0.00      1.64
NONPOINT         13   BF        1.99      0.28      0.00      0.00      0.00      0.66
NONPOINT         14   BF        1.94      0.28      0.00      0.00      0.00      0.66
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$
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CARD TYPE     ELEMENT   NAME                  UNIT     FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                        m³/s      cfs   deg C      ppt     uS/cm      MG/L

HDWTR-1           1     BAYOU CUTOFF            0   0.34330   12.122   22.24     0.22   200.000     8.000   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 CUTOFF                7.83      0.74      0.30      0.00      0.00      0.53
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

HDWTR-3           1     BAYOU CUTOFF                0.00      0.00      0.00      0.00
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

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     uS/cm      MG/L

WSTLD-1       30      32.04  LAFOURCHE SD#1         0.00986    0.34816    0.225   30.00     0.00     0.000     0.000
WSTLD-1       50      31.24  DUGAS DITCH            0.00850    0.30014    0.194   30.00     0.00     0.000     0.000
WSTLD-1       63      30.46  GRAND MARNIER          0.00462    0.16314    0.105   30.00     0.00     0.000     0.000
WSTLD-1       93      28.66  ARPENT CANAL           0.02830    0.99929    0.646   22.24     0.00     0.000     0.000
WSTLD-1      109      27.38  THOROUGHBRED           0.00275    0.09710    0.063   30.00     0.00     0.000     0.000
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          30     LAFOURCHE SD#1              2.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          50     DUGAS DITCH                 2.00     33.10      0.00     61.80      0.00      0.00      0.00      0.00
WSTLD-2          63     GRAND MARNIER               2.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          93     ARPENT CANAL                5.00      0.25      0.00      0.06      0.00      0.00      0.00      0.13
WSTLD-2         109     THOROUGHBRED                5.00     23.00      0.00     43.00      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
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WSTLD-3          30     LAFOURCHE SD#1              0.00      0.00      0.00      0.00
WSTLD-3          50     DUGAS DITCH                 0.00      0.00      0.00      0.00
WSTLD-3          63     GRAND MARNIER               0.00      0.00      0.00      0.00
WSTLD-3          93     ARPENT CANAL                0.00      0.00      0.00      0.00
WSTLD-3         109     THOROUGHBRED                0.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                        =     22.240     deg C
LOWER BC     SALINITY                           =      0.100     ppt
LOWER BC     CONSERVATIVE MATERIAL I            =    218.000     uS/cm
LOWER BC     CONSERVATIVE MATERIAL II           =     16.900     MG/L
LOWER BC     DISSOLVED OXYGEN                   =      5.000     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND     =      7.540     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND     =      3.960     mg/L
LOWER BC     NBOD                               =      1.760     mg/L
LOWER BC     CHLOROPHYLL A                      =     21.000     µg/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

ENDATA29

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


NUMBER OF PLOTS =  1
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
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   2 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
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FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 1 CUTOFF: THIBODAUX TO DUGAS DITCH WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
1	HDWTR	0.34330	22.24	0.22	200.00	8.00	7.83	0.74	0.53	0.74	0.53	0.30	0.00	0.00	0.00	2.00	0.00	0.00
30	WSTLD	0.00986	30.00	0.00	0.00	0.00	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
1	33.20	33.16	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	10.97	0.000	1.394	0.064
2	33.16	33.12	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	21.94	0.000	1.394	0.064
3	33.12	33.08	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	32.90	0.000	1.394	0.064
4	33.08	33.04	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	43.87	0.000	1.394	0.064
5	33.04	33.00	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	54.84	0.000	1.394	0.064
6	33.00	32.96	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	65.81	0.000	1.394	0.064
7	32.96	32.92	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	76.77	0.000	1.394	0.064
8	32.92	32.88	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	87.74	0.000	1.394	0.064
9	32.88	32.84	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	98.71	0.000	1.394	0.064
10	32.84	32.80	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	109.68	0.000	1.394	0.064
11	32.80	32.76	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	120.64	0.000	1.394	0.064
12	32.76	32.72	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	131.61	0.001	1.394	0.064
13	32.72	32.68	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	142.58	0.001	1.394	0.064
14	32.68	32.64	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	153.55	0.001	1.394	0.064
15	32.64	32.60	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	164.52	0.001	1.394	0.064
16	32.60	32.56	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	175.48	0.001	1.394	0.064
17	32.56	32.52	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	186.45	0.001	1.394	0.064
18	32.52	32.48	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	197.42	0.001	1.394	0.064
19	32.48	32.44	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	208.39	0.001	1.394	0.064
20	32.44	32.40	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	219.35	0.001	1.394	0.064
21	32.40	32.36	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	230.32	0.001	1.394	0.064
22	32.36	32.32	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	241.29	0.001	1.394	0.064
23	32.32	32.28	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	252.26	0.001	1.394	0.064
24	32.28	32.24	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	263.22	0.001	1.394	0.064
25	32.24	32.20	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	274.19	0.001	1.394	0.064
26	32.20	32.16	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	285.16	0.001	1.394	0.064
27	32.16	32.12	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	296.13	0.001	1.394	0.064
28	32.12	32.08	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	307.10	0.001	1.394	0.064
29	32.08	32.04	0.34330	0.0	0.06382	0.01	0.55	9.80	215.17	391.87	5.38	318.06	0.001	1.394	0.064
30	32.04	32.00	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	329.04	0.001	1.433	0.065
31	32.00	31.96	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	340.02	0.001	1.433	0.065
32	31.96	31.92	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	350.99	0.001	1.433	0.065
33	31.92	31.88	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	361.97	0.001	1.433	0.065
34	31.88	31.84	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	372.95	0.001	1.433	0.065
35	31.84	31.80	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	383.92	0.002	1.433	0.065
36	31.80	31.76	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	394.90	0.002	1.433	0.065
37	31.76	31.72	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	405.88	0.002	1.433	0.065
38	31.72	31.68	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	416.85	0.002	1.433	0.065
39	31.68	31.64	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	427.83	0.002	1.433	0.065

40	31.64	31.60	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	438.80	0.002	1.433	0.065
41	31.60	31.56	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	449.78	0.002	1.433	0.065
42	31.56	31.52	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	460.76	0.002	1.433	0.065
43	31.52	31.48	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	471.73	0.002	1.433	0.065
44	31.48	31.44	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	482.71	0.002	1.433	0.065
45	31.44	31.40	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	493.69	0.002	1.433	0.065
46	31.40	31.36	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	504.66	0.002	1.433	0.065
47	31.36	31.32	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	515.64	0.002	1.433	0.065
48	31.32	31.28	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	526.62	0.002	1.433	0.065
49	31.28	31.24	0.35316	2.8	0.06543	0.01	0.55	9.80	215.90	392.19	5.40	537.59	0.002	1.433	0.065
TOT						0.35			10557.96	19207.89					
AVG					0.0645		0.55	9.80			5.39				
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
1	33.160	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
2	33.120	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
3	33.080	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
4	33.040	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
5	33.000	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
6	32.960	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
7	32.920	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
8	32.880	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
9	32.840	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
10	32.800	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
11	32.760	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
12	32.720	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
13	32.680	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
14	32.640	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
15	32.600	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
16	32.560	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
17	32.520	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
18	32.480	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
19	32.440	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
20	32.400	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
21	32.360	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
22	32.320	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
23	32.280	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
24	32.240	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
25	32.200	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
26	32.160	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
27	32.120	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.43	0.43	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
28	32.080	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.44	0.44	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
29	32.040	6.90	1.61	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.46	0.46	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
30	32.000	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
31	31.960	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
32	31.920	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
33	31.880	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
34	31.840	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
35	31.800	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
36	31.760	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00

37	31.720	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
38	31.680	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
39	31.640	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
40	31.600	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
41	31.560	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
42	31.520	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
43	31.480	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
44	31.440	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
45	31.400	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
46	31.360	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
47	31.320	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.50	0.50	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
48	31.280	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.51	0.51	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
49	31.240	6.90	1.62	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.53	0.53	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.55	0.12	0.20	0.00	0.03	0.20	0.00	0.25			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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	33.160	22.20	40.22	200.00	8.00	7.80	0.74	0.53	0.74	0.53	0.30	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
2	33.120	22.20	40.21	200.00	8.00	7.79	0.74	0.53	0.74	0.53	0.30	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
3	33.080	22.20	40.21	200.00	8.00	7.77	0.74	0.53	0.74	0.53	0.30	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
4	33.040	22.20	40.21	200.00	8.00	7.76	0.74	0.53	0.74	0.53	0.30	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
5	33.000	22.20	40.21	200.00	8.00	7.74	0.74	0.53	0.74	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
6	32.960	22.20	40.20	200.00	8.00	7.72	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
7	32.920	22.20	40.20	200.00	8.00	7.71	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
8	32.880	22.20	40.20	200.00	8.00	7.69	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
9	32.840	22.20	40.20	200.00	8.00	7.68	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
10	32.800	22.20	40.19	200.00	8.00	7.66	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
11	32.760	22.20	40.19	200.00	8.00	7.65	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
12	32.720	22.20	40.19	200.00	8.00	7.64	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
13	32.680	22.20	40.19	200.00	8.00	7.62	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
14	32.640	22.20	40.18	200.00	8.00	7.61	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
15	32.600	22.20	40.18	200.00	8.00	7.59	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
16	32.560	22.20	40.18	200.00	8.00	7.58	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
17	32.520	22.20	40.17	200.00	8.00	7.57	0.73	0.53	0.73	0.53	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
18	32.480	22.20	40.17	200.00	8.00	7.55	0.72	0.53	0.72	0.53	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
19	32.440	22.20	40.17	200.00	8.00	7.54	0.72	0.53	0.72	0.53	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
20	32.400	22.20	40.17	200.00	8.00	7.53	0.72	0.53	0.72	0.53	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
21	32.360	22.20	40.16	200.00	8.00	7.51	0.72	0.53	0.72	0.53	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
22	32.320	22.20	40.16	200.00	8.00	7.50	0.72	0.53	0.72	0.53	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
23	32.280	22.20	40.16	200.00	8.00	7.49	0.72	0.53	0.72	0.53	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
24	32.240	22.20	40.16	199.99	8.00	7.47	0.72	0.53	0.72	0.53	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
25	32.200	22.20	40.15	199.97	8.00	7.46	0.72	0.53	0.72	0.53	0.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
26	32.160	22.20	40.15	199.91	8.00	7.45	0.73	0.53	0.73	0.53	0.29	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
27	32.120	22.20	40.15	199.75	7.99	7.43	0.74	0.53	0.74	0.53	0.33	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
28	32.080	22.20	40.15	199.30	7.97	7.41	0.79	0.52	0.79	0.52	0.42	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
29	32.040	22.20	40.14	198.01	7.92	7.36	0.94	0.52	0.94	0.52	0.70	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
30	32.000	22.20	40.14	194.42	7.78	7.25	1.33	0.51	1.33	0.51	1.46	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
31	31.960	22.20	40.14	194.42	7.78	7.24	1.33	0.51	1.33	0.51	1.45	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
32	31.920	22.20	40.14	194.42	7.78	7.23	1.33	0.51	1.33	0.51	1.45	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
33	31.880	22.20	40.13	194.42	7.78	7.21	1.33	0.51	1.33	0.51	1.45	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
34	31.840	22.20	40.13	194.42	7.78	7.20	1.32	0.51	1.32	0.51	1.44	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

35	31.800	22.20	40.13	194.42	7.78	7.19	1.32	0.51	1.32	0.51	1.44	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
36	31.760	22.20	40.12	194.42	7.78	7.18	1.32	0.51	1.32	0.51	1.43	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
37	31.720	22.20	40.12	194.42	7.78	7.17	1.32	0.51	1.32	0.51	1.43	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
38	31.680	22.20	40.12	194.42	7.78	7.16	1.32	0.51	1.32	0.51	1.42	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
39	31.640	22.20	40.12	194.42	7.78	7.15	1.31	0.51	1.31	0.51	1.42	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
40	31.600	22.20	40.11	194.42	7.78	7.14	1.31	0.51	1.31	0.51	1.42	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
41	31.560	22.20	40.11	194.42	7.78	7.13	1.31	0.51	1.31	0.51	1.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
42	31.520	22.20	40.11	194.42	7.78	7.12	1.31	0.51	1.31	0.51	1.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
43	31.480	22.20	40.11	194.41	7.78	7.10	1.31	0.51	1.31	0.51	1.40	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
44	31.440	22.20	40.10	194.41	7.78	7.09	1.30	0.51	1.30	0.51	1.40	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
45	31.400	22.20	40.10	194.39	7.78	7.08	1.30	0.51	1.30	0.51	1.40	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
46	31.360	22.20	40.10	194.34	7.77	7.07	1.31	0.51	1.31	0.51	1.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
47	31.320	22.20	40.10	194.20	7.77	7.06	1.33	0.51	1.33	0.51	1.45	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
48	31.280	22.20	40.09	193.80	7.75	7.03	1.39	0.51	1.39	0.51	1.56	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
49	31.240	22.20	40.09	192.68	7.71	6.98	1.56	0.50	1.56	0.50	1.90	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 2 CUTOFF: DUGAS DITCH TO ARPENT C WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
50	UPR RCH	0.35316	22.20	40.09	192.68	7.71	6.98	1.56	0.50	1.56	0.50	1.90	0.00	0.00	0.00	2.00	0.00	0.00
50	WSTLD	0.00850	30.00	0.00	0.00	0.00	2.00	33.10	0.00	33.10	0.00	61.80	0.00	0.00	0.00	0.00	0.00	0.00
63	WSTLD	0.00462	30.00	0.00	0.00	0.00	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
50	31.24	31.18	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	562.60	0.001	0.894	0.025
51	31.18	31.12	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	587.60	0.001	0.894	0.025
52	31.12	31.06	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	612.61	0.001	0.894	0.025
53	31.06	31.00	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	637.61	0.001	0.894	0.025
54	31.00	30.94	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	662.61	0.001	0.894	0.025
55	30.94	30.88	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	687.62	0.001	0.894	0.025
56	30.88	30.82	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	712.62	0.001	0.894	0.025
57	30.82	30.76	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	737.63	0.001	0.894	0.025
58	30.76	30.70	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	762.63	0.001	0.894	0.025
59	30.70	30.64	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	787.63	0.001	0.894	0.025
60	30.64	30.58	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	812.64	0.001	0.894	0.025
61	30.58	30.52	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	837.64	0.001	0.894	0.025
62	30.52	30.46	0.36166	5.1	0.02514	0.03	0.99	14.60	863.18	876.04	14.39	862.65	0.001	0.894	0.025
63	30.46	30.40	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	887.66	0.001	0.905	0.025
64	30.40	30.34	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	912.67	0.001	0.905	0.025
65	30.34	30.28	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	937.68	0.001	0.905	0.025
66	30.28	30.22	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	962.69	0.001	0.905	0.025
67	30.22	30.16	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	987.70	0.001	0.905	0.025
68	30.16	30.10	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1012.71	0.002	0.905	0.025
69	30.10	30.04	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1037.73	0.002	0.905	0.025
70	30.04	29.98	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1062.74	0.002	0.905	0.025

71	29.98	29.92	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1087.75	0.002	0.905	0.025
72	29.92	29.86	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1112.76	0.002	0.905	0.025
73	29.86	29.80	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1137.77	0.002	0.905	0.025
74	29.80	29.74	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1162.78	0.002	0.905	0.025
75	29.74	29.68	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1187.79	0.002	0.905	0.025
76	29.68	29.62	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1212.81	0.002	0.905	0.025
77	29.62	29.56	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1237.82	0.002	0.905	0.025
78	29.56	29.50	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1262.83	0.002	0.905	0.025
79	29.50	29.44	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1287.84	0.002	0.905	0.025
80	29.44	29.38	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1312.85	0.002	0.905	0.025
81	29.38	29.32	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1337.86	0.002	0.905	0.025
82	29.32	29.26	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1362.87	0.002	0.905	0.025
83	29.26	29.20	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1387.89	0.002	0.905	0.025
84	29.20	29.14	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1412.90	0.002	0.905	0.025
85	29.14	29.08	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1437.91	0.002	0.905	0.025
86	29.08	29.02	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1462.92	0.002	0.905	0.025
87	29.02	28.96	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1487.93	0.002	0.905	0.025
88	28.96	28.90	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1512.94	0.002	0.905	0.025
89	28.90	28.84	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1537.95	0.002	0.905	0.025
90	28.84	28.78	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1562.97	0.002	0.905	0.025
91	28.78	28.72	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1587.98	0.002	0.905	0.025
92	28.72	28.66	0.36628	6.3	0.02544	0.03	0.99	14.61	863.72	876.30	14.40	1612.99	0.002	0.905	0.025
TOT						1.18			37132.86	37677.60					
AVG					0.0254		0.99	14.60			14.39				
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
50	31.180	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.81	0.81	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
51	31.120	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.80	0.80	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
52	31.060	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.80	0.80	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
53	31.000	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.79	0.79	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
54	30.940	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.79	0.79	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
55	30.880	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.79	0.79	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
56	30.820	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.78	0.78	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
57	30.760	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.78	0.78	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
58	30.700	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.77	0.77	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
59	30.640	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.77	0.77	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
60	30.580	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.77	0.77	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
61	30.520	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.77	0.77	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
62	30.460	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.78	0.78	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
63	30.400	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.81	0.81	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
64	30.340	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.80	0.80	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
65	30.280	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.80	0.80	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
66	30.220	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.79	0.79	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
67	30.160	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.79	0.79	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
68	30.100	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.79	0.79	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
69	30.040	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.78	0.78	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
70	29.980	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.78	0.78	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
71	29.920	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.77	0.77	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
72	29.860	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.77	0.77	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
73	29.800	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.77	0.77	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00

74	29.740	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.76	0.76	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
75	29.680	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.76	0.76	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
76	29.620	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.75	0.75	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
77	29.560	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.75	0.75	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
78	29.500	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.75	0.75	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
79	29.440	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.74	0.74	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
80	29.380	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.74	0.74	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
81	29.320	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.73	0.73	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
82	29.260	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.73	0.73	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
83	29.200	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.73	0.73	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
84	29.140	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.72	0.72	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
85	29.080	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.72	0.72	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
86	29.020	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.72	0.72	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
87	28.960	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.71	0.71	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
88	28.900	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.71	0.71	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
89	28.840	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.71	0.71	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
90	28.780	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.70	0.70	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
91	28.720	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.70	0.70	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
92	28.660	6.90	0.74	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.69	0.69	0.11	0.32	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.71	0.12	0.20	0.00	0.03	0.20	0.00	0.25			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
50	31.180	22.20	40.09	189.85	7.59	6.88	2.01	0.49	2.01	0.49	2.75	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
51	31.120	22.20	40.09	189.85	7.59	6.84	1.99	0.49	1.99	0.49	2.71	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
52	31.060	22.20	40.09	189.85	7.59	6.81	1.98	0.49	1.98	0.49	2.68	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
53	31.000	22.20	40.09	189.85	7.59	6.78	1.96	0.48	1.96	0.48	2.65	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
54	30.940	22.20	40.09	189.85	7.59	6.75	1.94	0.48	1.94	0.48	2.62	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
55	30.880	22.20	40.09	189.85	7.59	6.72	1.92	0.48	1.92	0.48	2.59	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
56	30.820	22.20	40.09	189.85	7.59	6.69	1.91	0.48	1.91	0.48	2.56	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
57	30.760	22.20	40.09	189.84	7.59	6.66	1.89	0.47	1.89	0.47	2.53	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
58	30.700	22.20	40.09	189.83	7.59	6.63	1.87	0.47	1.87	0.47	2.51	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
59	30.640	22.20	40.09	189.80	7.59	6.61	1.86	0.47	1.86	0.47	2.48	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
60	30.580	22.20	40.08	189.72	7.59	6.58	1.85	0.46	1.85	0.46	2.47	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
61	30.520	22.20	40.08	189.51	7.58	6.55	1.86	0.46	1.86	0.46	2.48	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
62	30.460	22.20	40.08	188.95	7.56	6.51	1.90	0.46	1.90	0.46	2.57	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
63	30.400	22.20	40.08	187.45	7.50	6.45	2.05	0.45	2.05	0.45	2.86	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
64	30.340	22.20	40.08	187.45	7.50	6.42	2.03	0.45	2.03	0.45	2.83	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
65	30.280	22.20	40.08	187.45	7.50	6.40	2.02	0.44	2.02	0.44	2.80	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
66	30.220	22.20	40.08	187.45	7.50	6.37	2.00	0.44	2.00	0.44	2.76	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
67	30.160	22.20	40.08	187.45	7.50	6.35	1.98	0.44	1.98	0.44	2.73	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
68	30.100	22.20	40.08	187.45	7.50	6.33	1.96	0.44	1.96	0.44	2.70	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
69	30.040	22.20	40.08	187.45	7.50	6.31	1.95	0.43	1.95	0.43	2.67	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
70	29.980	22.20	40.08	187.45	7.50	6.29	1.93	0.43	1.93	0.43	2.64	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
71	29.920	22.20	40.08	187.45	7.50	6.27	1.91	0.43	1.91	0.43	2.61	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
72	29.860	22.20	40.08	187.45	7.50	6.25	1.90	0.43	1.90	0.43	2.58	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
73	29.800	22.20	40.08	187.45	7.50	6.23	1.88	0.42	1.88	0.42	2.55	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
74	29.740	22.20	40.08	187.45	7.50	6.21	1.86	0.42	1.86	0.42	2.52	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
75	29.680	22.20	40.08	187.45	7.50	6.19	1.85	0.42	1.85	0.42	2.49	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
76	29.620	22.20	40.08	187.45	7.50	6.17	1.83	0.42	1.83	0.42	2.47	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
77	29.560	22.20	40.08	187.45	7.50	6.16	1.81	0.41	1.81	0.41	2.44	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

78	29.500	22.20	40.08	187.45	7.50	6.14	1.80	0.41	1.80	0.41	2.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
79	29.440	22.20	40.08	187.45	7.50	6.13	1.78	0.41	1.78	0.41	2.38	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
80	29.380	22.20	40.08	187.45	7.50	6.11	1.77	0.41	1.77	0.41	2.36	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
81	29.320	22.20	40.08	187.45	7.50	6.10	1.75	0.40	1.75	0.40	2.33	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
82	29.260	22.20	40.07	187.45	7.50	6.08	1.74	0.40	1.74	0.40	2.30	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
83	29.200	22.20	40.07	187.45	7.50	6.07	1.72	0.40	1.72	0.40	2.28	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
84	29.140	22.20	40.07	187.45	7.50	6.06	1.71	0.40	1.71	0.40	2.25	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
85	29.080	22.20	40.07	187.45	7.50	6.05	1.69	0.40	1.69	0.40	2.22	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
86	29.020	22.20	40.07	187.44	7.50	6.03	1.68	0.39	1.68	0.39	2.20	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
87	28.960	22.20	40.07	187.42	7.50	6.02	1.66	0.39	1.66	0.39	2.17	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
88	28.900	22.20	40.07	187.36	7.49	6.01	1.65	0.39	1.65	0.39	2.15	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
89	28.840	22.20	40.07	187.20	7.49	6.00	1.63	0.39	1.63	0.39	2.12	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
90	28.780	22.20	40.07	186.76	7.47	5.99	1.61	0.38	1.61	0.38	2.09	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
91	28.720	22.20	40.07	185.60	7.42	5.97	1.59	0.38	1.59	0.38	2.05	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
92	28.660	22.20	40.07	182.48	7.30	5.95	1.55	0.37	1.55	0.37	1.99	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 3 CUTOFF: ARPENT TO THOROUGHBRED WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
93	UPR RCH	0.36628	22.20	40.07	182.48	7.30	5.95	1.55	0.37	1.55	0.37	1.99	0.00	0.00	0.00	2.00	0.00	0.00
93	WSTLD	0.02830	22.24	0.00	0.00	0.00	5.00	0.25	0.13	0.25	0.13	0.06	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
93	28.66	28.58	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	1660.56	0.001	0.673	0.016
94	28.58	28.50	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	1708.13	0.001	0.673	0.016
95	28.50	28.42	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	1755.71	0.002	0.673	0.016
96	28.42	28.34	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	1803.28	0.002	0.673	0.016
97	28.34	28.26	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	1850.85	0.002	0.673	0.016
98	28.26	28.18	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	1898.42	0.002	0.673	0.016
99	28.18	28.10	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	1946.00	0.002	0.673	0.016
100	28.10	28.02	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	1993.57	0.002	0.673	0.016
101	28.02	27.94	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	2041.14	0.002	0.673	0.016
102	27.94	27.86	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	2088.71	0.002	0.673	0.016
103	27.86	27.78	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	2136.29	0.002	0.673	0.016
104	27.78	27.70	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	2183.86	0.002	0.673	0.016
105	27.70	27.62	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	2231.43	0.002	0.673	0.016
TOT						0.75			25538.09	21286.54					
AVG					0.0161		1.20	20.47			24.56				
CUM						2.28									

********** 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. 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
93	28.580	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.14	0.60	0.60	0.11	0.32	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
94	28.500	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.14	0.60	0.60	0.11	0.32	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
95	28.420	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.14	0.59	0.59	0.11	0.32	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
96	28.340	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.14	0.58	0.58	0.11	0.32	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
97	28.260	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.14	0.57	0.57	0.11	0.32	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
98	28.180	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.14	0.56	0.56	0.11	0.32	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
99	28.100	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.14	0.56	0.56	0.11	0.32	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
100	28.020	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.14	0.55	0.55	0.11	0.32	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
101	27.940	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.14	0.54	0.54	0.11	0.32	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
102	27.860	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.14	0.54	0.54	0.11	0.32	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
103	27.780	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.14	0.53	0.53	0.11	0.32	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
104	27.700	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.14	0.52	0.52	0.11	0.32	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
105	27.620	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.14	0.52	0.52	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.58	0.12	0.20	0.00	0.03	0.20	0.00	0.12			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
93	28.580	22.20	40.07	174.01	6.96	5.89	1.46	0.36	1.46	0.36	1.86	0.00	0.00	0.00	0.00	2.09	0.00	0.	0.00
94	28.500	22.20	40.07	174.01	6.96	5.89	1.43	0.35	1.43	0.35	1.81	0.00	0.00	0.00	0.00	2.18	0.00	0.	0.00
95	28.420	22.20	40.07	174.01	6.96	5.88	1.41	0.35	1.41	0.35	1.77	0.00	0.00	0.00	0.00	2.28	0.00	0.	0.00
96	28.340	22.20	40.07	174.01	6.96	5.87	1.38	0.34	1.38	0.34	1.73	0.00	0.00	0.00	0.00	2.37	0.00	0.	0.00
97	28.260	22.20	40.07	174.01	6.96	5.87	1.36	0.34	1.36	0.34	1.69	0.00	0.00	0.00	0.00	2.46	0.00	0.	0.00
98	28.180	22.20	40.07	174.01	6.96	5.87	1.33	0.33	1.33	0.33	1.65	0.00	0.00	0.00	0.00	2.55	0.00	0.	0.00
99	28.100	22.20	40.07	174.01	6.96	5.86	1.31	0.33	1.31	0.33	1.62	0.00	0.00	0.00	0.00	2.65	0.00	0.	0.00
100	28.020	22.20	40.07	174.01	6.96	5.86	1.28	0.33	1.28	0.33	1.58	0.00	0.00	0.00	0.00	2.74	0.00	0.	0.00
101	27.940	22.20	40.07	174.01	6.96	5.86	1.26	0.32	1.26	0.32	1.54	0.00	0.00	0.00	0.00	2.83	0.00	0.	0.00
102	27.860	22.20	40.07	174.01	6.96	5.86	1.24	0.32	1.24	0.32	1.51	0.00	0.00	0.00	0.00	2.92	0.00	0.	0.00
103	27.780	22.20	40.07	174.01	6.96	5.87	1.21	0.32	1.21	0.32	1.47	0.00	0.00	0.00	0.00	3.02	0.00	0.	0.00
104	27.700	22.20	40.07	174.00	6.96	5.87	1.19	0.31	1.19	0.31	1.44	0.00	0.00	0.00	0.00	3.11	0.00	0.	0.00
105	27.620	22.20	40.07	173.99	6.96	5.87	1.17	0.31	1.17	0.31	1.41	0.00	0.00	0.00	0.00	3.20	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 4 CUTOFF:THOROUGHBRED TO RKM 24.66 WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
106	UPR RCH	0.39458	22.20	40.07	173.99	6.96	5.87	1.17	0.31	1.17	0.31	1.41	0.00	0.00	0.00	3.20	0.00	0.00
109	WSTLD	0.00275	30.00	0.00	0.00	0.00	5.00	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	BEGIN	ENDING	FLOW	PCT	ADVCTV	TRAVEL	DEPTH	WIDTH	VOLUME	SURFACE	X-SECT	TIDAL	TIDAL	DISPRSN	MEAN

NO.	DIST km	DIST km	m³/s	EFF	VELO m/s	TIME days	m	m	m³	AREA m²	AREA m²	PRISM m³	VELO m/s	m²/s	VELO m/s
106	27.62	27.54	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	2280.05	0.002	0.673	0.016
107	27.54	27.46	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	2328.67	0.002	0.673	0.016
108	27.46	27.38	0.39458	13.0	0.01607	0.06	1.20	20.47	1964.47	1637.43	24.56	2377.29	0.002	0.673	0.016
109	27.38	27.30	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	2425.91	0.002	0.678	0.016
110	27.30	27.22	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	2474.53	0.002	0.678	0.016
111	27.22	27.14	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	2523.15	0.002	0.678	0.016
112	27.14	27.06	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	2571.77	0.002	0.678	0.016
113	27.06	26.98	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	2620.40	0.002	0.678	0.016
114	26.98	26.90	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	2669.02	0.002	0.678	0.016
115	26.90	26.82	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	2717.64	0.002	0.678	0.016
116	26.82	26.74	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	2766.26	0.002	0.678	0.016
117	26.74	26.66	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	2814.88	0.002	0.678	0.016
118	26.66	26.58	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	2863.50	0.002	0.678	0.016
119	26.58	26.50	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	2912.12	0.003	0.678	0.016
120	26.50	26.42	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	2960.74	0.003	0.678	0.016
121	26.42	26.34	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3009.37	0.003	0.678	0.016
122	26.34	26.26	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3057.99	0.003	0.678	0.016
123	26.26	26.18	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3106.61	0.003	0.678	0.016
124	26.18	26.10	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3155.23	0.003	0.678	0.016
125	26.10	26.02	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3203.85	0.003	0.678	0.016
126	26.02	25.94	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3252.47	0.003	0.678	0.016
127	25.94	25.86	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3301.09	0.003	0.678	0.016
128	25.86	25.78	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3349.72	0.003	0.678	0.016
129	25.78	25.70	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3398.34	0.003	0.678	0.016
130	25.70	25.62	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3446.96	0.003	0.678	0.016
131	25.62	25.54	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3495.58	0.003	0.678	0.016
132	25.54	25.46	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3544.20	0.003	0.678	0.016
133	25.46	25.38	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3592.82	0.003	0.678	0.016
134	25.38	25.30	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3641.44	0.003	0.678	0.016
135	25.30	25.22	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3690.06	0.003	0.678	0.016
136	25.22	25.14	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3738.69	0.003	0.678	0.016
137	25.14	25.06	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3787.31	0.003	0.678	0.016
138	25.06	24.98	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3835.93	0.003	0.678	0.016
139	24.98	24.90	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3884.55	0.003	0.678	0.016
140	24.90	24.82	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3933.17	0.003	0.678	0.016
141	24.82	24.74	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	3981.79	0.003	0.678	0.016
142	24.74	24.66	0.39733	13.6	0.01618	0.06	1.20	20.47	1964.80	1637.51	24.56	4030.41	0.004	0.678	0.016
TOT						2.12			72696.52	60587.79					
AVG					0.0162		1.20	20.47			24.56				
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
106	27.540	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.73	0.73	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
107	27.460	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.73	0.73	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
108	27.380	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.73	0.73	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
109	27.300	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.75	0.75	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
110	27.220	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.74	0.74	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
111	27.140	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.73	0.73	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00

112	27.060	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.73	0.73	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
113	26.980	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.72	0.72	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
114	26.900	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.72	0.72	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
115	26.820	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.71	0.71	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
116	26.740	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.71	0.71	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
117	26.660	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.70	0.70	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
118	26.580	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.69	0.69	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
119	26.500	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.69	0.69	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
120	26.420	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.68	0.68	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
121	26.340	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.68	0.68	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
122	26.260	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.67	0.67	0.11	0.32	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
123	26.180	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.67	0.67	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
124	26.100	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.66	0.66	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
125	26.020	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.66	0.66	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
126	25.940	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.66	0.66	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
127	25.860	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.65	0.65	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
128	25.780	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.65	0.65	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
129	25.700	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.64	0.64	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
130	25.620	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.64	0.64	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
131	25.540	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.63	0.63	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
132	25.460	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.63	0.63	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
133	25.380	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.63	0.63	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
134	25.300	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.62	0.62	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
135	25.220	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.62	0.62	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
136	25.140	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.61	0.61	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
137	25.060	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.61	0.61	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
138	24.980	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.61	0.61	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
139	24.900	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.60	0.60	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
140	24.820	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.60	0.60	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
141	24.740	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.60	0.60	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
142	24.660	6.90	0.61	0.13	0.21	0.00	0.03	0.21	0.00	0.36	0.59	0.59	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.58	0.12	0.20	0.00	0.03	0.20	0.00	0.31			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
106	27.540	22.20	40.07	173.96	6.96	5.86	1.16	0.31	1.16	0.31	1.38	0.00	0.00	0.00	0.00	3.21	0.00	0.	0.00
107	27.460	22.20	40.07	173.87	6.95	5.85	1.15	0.30	1.15	0.30	1.37	0.00	0.00	0.00	0.00	3.22	0.00	0.	0.00
108	27.380	22.20	40.07	173.59	6.94	5.85	1.16	0.30	1.16	0.30	1.40	0.00	0.00	0.00	0.00	3.22	0.00	0.	0.00
109	27.300	22.20	40.08	172.80	6.91	5.84	1.23	0.30	1.23	0.30	1.55	0.00	0.00	0.00	0.00	3.23	0.00	0.	0.00
110	27.220	22.20	40.08	172.80	6.91	5.83	1.21	0.29	1.21	0.29	1.52	0.00	0.00	0.00	0.00	3.24	0.00	0.	0.00
111	27.140	22.20	40.08	172.80	6.91	5.82	1.19	0.29	1.19	0.29	1.48	0.00	0.00	0.00	0.00	3.25	0.00	0.	0.00
112	27.060	22.20	40.08	172.80	6.91	5.82	1.17	0.29	1.17	0.29	1.45	0.00	0.00	0.00	0.00	3.26	0.00	0.	0.00
113	26.980	22.20	40.08	172.80	6.91	5.82	1.15	0.29	1.15	0.29	1.42	0.00	0.00	0.00	0.00	3.26	0.00	0.	0.00
114	26.900	22.20	40.08	172.80	6.91	5.81	1.13	0.28	1.13	0.28	1.38	0.00	0.00	0.00	0.00	3.27	0.00	0.	0.00
115	26.820	22.20	40.08	172.80	6.91	5.81	1.11	0.28	1.11	0.28	1.35	0.00	0.00	0.00	0.00	3.28	0.00	0.	0.00
116	26.740	22.20	40.08	172.80	6.91	5.81	1.09	0.28	1.09	0.28	1.32	0.00	0.00	0.00	0.00	3.29	0.00	0.	0.00
117	26.660	22.20	40.09	172.80	6.91	5.81	1.07	0.28	1.07	0.28	1.29	0.00	0.00	0.00	0.00	3.30	0.00	0.	0.00
118	26.580	22.20	40.09	172.80	6.91	5.81	1.05	0.28	1.05	0.28	1.26	0.00	0.00	0.00	0.00	3.31	0.00	0.	0.00
119	26.500	22.20	40.09	172.80	6.91	5.81	1.03	0.27	1.03	0.27	1.23	0.00	0.00	0.00	0.00	3.31	0.00	0.	0.00
120	26.420	22.20	40.09	172.80	6.91	5.81	1.01	0.27	1.01	0.27	1.20	0.00	0.00	0.00	0.00	3.32	0.00	0.	0.00
121	26.340	22.20	40.09	172.80	6.91	5.81	1.00	0.27	1.00	0.27	1.17	0.00	0.00	0.00	0.00	3.33	0.00	0.	0.00

122	26.260	22.20	40.09	172.80	6.91	5.81	0.98	0.27	0.98	0.27	1.15	0.00	0.00	0.00	0.00	3.34	0.00	0.	0.00
123	26.180	22.20	40.09	172.80	6.91	5.81	0.96	0.26	0.96	0.26	1.12	0.00	0.00	0.00	0.00	3.35	0.00	0.	0.00
124	26.100	22.20	40.10	172.80	6.91	5.81	0.94	0.26	0.94	0.26	1.09	0.00	0.00	0.00	0.00	3.35	0.00	0.	0.00
125	26.020	22.20	40.10	172.80	6.91	5.82	0.93	0.26	0.93	0.26	1.07	0.00	0.00	0.00	0.00	3.36	0.00	0.	0.00
126	25.940	22.20	40.10	172.80	6.91	5.82	0.91	0.26	0.91	0.26	1.04	0.00	0.00	0.00	0.00	3.37	0.00	0.	0.00
127	25.860	22.20	40.10	172.80	6.91	5.82	0.90	0.26	0.90	0.26	1.02	0.00	0.00	0.00	0.00	3.38	0.00	0.	0.00
128	25.780	22.20	40.10	172.80	6.91	5.83	0.88	0.26	0.88	0.26	1.00	0.00	0.00	0.00	0.00	3.39	0.00	0.	0.00
129	25.700	22.20	40.10	172.80	6.91	5.83	0.86	0.25	0.86	0.25	0.97	0.00	0.00	0.00	0.00	3.39	0.00	0.	0.00
130	25.620	22.20	40.10	172.80	6.91	5.84	0.85	0.25	0.85	0.25	0.95	0.00	0.00	0.00	0.00	3.40	0.00	0.	0.00
131	25.540	22.20	40.11	172.80	6.91	5.84	0.83	0.25	0.83	0.25	0.93	0.00	0.00	0.00	0.00	3.41	0.00	0.	0.00
132	25.460	22.20	40.11	172.80	6.91	5.85	0.82	0.25	0.82	0.25	0.91	0.00	0.00	0.00	0.00	3.42	0.00	0.	0.00
133	25.380	22.20	40.11	172.80	6.91	5.85	0.81	0.25	0.81	0.25	0.89	0.00	0.00	0.00	0.00	3.43	0.00	0.	0.00
134	25.300	22.20	40.11	172.80	6.91	5.86	0.79	0.24	0.79	0.24	0.87	0.00	0.00	0.00	0.00	3.44	0.00	0.	0.00
135	25.220	22.20	40.11	172.80	6.91	5.87	0.78	0.24	0.78	0.24	0.85	0.00	0.00	0.00	0.00	3.44	0.00	0.	0.00
136	25.140	22.20	40.11	172.80	6.91	5.87	0.77	0.24	0.77	0.24	0.83	0.00	0.00	0.00	0.00	3.45	0.00	0.	0.00
137	25.060	22.20	40.11	172.80	6.91	5.88	0.75	0.24	0.75	0.24	0.81	0.00	0.00	0.00	0.00	3.46	0.00	0.	0.00
138	24.980	22.20	40.11	172.80	6.91	5.88	0.74	0.24	0.74	0.24	0.79	0.00	0.00	0.00	0.00	3.47	0.00	0.	0.00
139	24.900	22.20	40.12	172.80	6.91	5.89	0.73	0.24	0.73	0.24	0.77	0.00	0.00	0.00	0.00	3.48	0.00	0.	0.00
140	24.820	22.20	40.12	172.80	6.91	5.90	0.71	0.23	0.71	0.23	0.75	0.00	0.00	0.00	0.00	3.48	0.00	0.	0.00
141	24.740	22.20	40.12	172.80	6.91	5.90	0.70	0.23	0.70	0.23	0.74	0.00	0.00	0.00	0.00	3.49	0.00	0.	0.00
142	24.660	22.20	40.12	172.80	6.91	5.91	0.69	0.23	0.69	0.23	0.72	0.00	0.00	0.00	0.00	3.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 5 CUTOFF: RKM 24.66 TO ST CHAS WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
143	UPR RCH	0.39733	22.20	40.12	172.80	6.91	5.91	0.69	0.23	0.69	0.23	0.72	0.00	0.00	0.00	3.50	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
143	24.66	24.58	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4090.98	0.003	0.555	0.012
144	24.58	24.50	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4151.55	0.003	0.555	0.012
145	24.50	24.42	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4212.11	0.003	0.555	0.012
146	24.42	24.34	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4272.68	0.003	0.555	0.012
147	24.34	24.26	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4333.24	0.003	0.555	0.012
148	24.26	24.18	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4393.81	0.003	0.555	0.012
149	24.18	24.10	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4454.37	0.003	0.555	0.012
150	24.10	24.02	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4514.94	0.003	0.555	0.012
151	24.02	23.94	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4575.50	0.003	0.555	0.012
152	23.94	23.86	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4636.07	0.003	0.555	0.012
153	23.86	23.78	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4696.63	0.003	0.555	0.012
154	23.78	23.70	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4757.20	0.003	0.555	0.012
155	23.70	23.62	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4817.77	0.003	0.555	0.012
156	23.62	23.54	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4878.33	0.003	0.555	0.012
157	23.54	23.46	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4938.90	0.003	0.555	0.012
158	23.46	23.38	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	4999.46	0.003	0.555	0.012
159	23.38	23.30	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5060.03	0.003	0.555	0.012

160	23.30	23.22	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5120.59	0.003	0.555	0.012
161	23.22	23.14	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5181.16	0.003	0.555	0.012
162	23.14	23.06	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5241.72	0.004	0.555	0.012
163	23.06	22.98	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5302.29	0.004	0.555	0.012
164	22.98	22.90	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5362.85	0.004	0.555	0.012
165	22.90	22.82	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5423.42	0.004	0.555	0.012
166	22.82	22.74	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5483.98	0.004	0.555	0.012
167	22.74	22.66	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5544.55	0.004	0.555	0.012
168	22.66	22.58	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5605.12	0.004	0.555	0.012
169	22.58	22.50	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5665.68	0.004	0.555	0.012
170	22.50	22.42	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5726.25	0.004	0.555	0.012
171	22.42	22.34	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5786.81	0.004	0.555	0.012
172	22.34	22.26	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5847.38	0.004	0.555	0.012
173	22.26	22.18	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5907.94	0.004	0.555	0.012
174	22.18	22.10	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	5968.51	0.004	0.555	0.012
175	22.10	22.02	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	6029.07	0.004	0.555	0.012
176	22.02	21.94	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	6089.64	0.004	0.555	0.012
177	21.94	21.86	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	6150.20	0.004	0.555	0.012
178	21.86	21.78	0.39733	13.6	0.01243	0.07	1.30	24.68	2558.11	1974.62	31.98	6210.77	0.004	0.555	0.012
TOT						2.68			92092.12	71086.36					
AVG					0.0124		1.30	24.68			31.98				
CUM						7.08									

********** 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
143	24.580	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.82	0.82	0.11	0.32	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
144	24.500	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.82	0.82	0.11	0.32	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
145	24.420	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.81	0.81	0.11	0.32	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
146	24.340	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.81	0.81	0.11	0.32	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
147	24.260	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.80	0.80	0.11	0.32	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
148	24.180	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.80	0.80	0.11	0.32	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
149	24.100	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.79	0.79	0.11	0.32	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
150	24.020	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.79	0.79	0.11	0.32	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
151	23.940	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.79	0.79	0.11	0.32	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
152	23.860	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.78	0.78	0.11	0.32	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
153	23.780	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.78	0.78	0.11	0.32	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
154	23.700	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.78	0.78	0.11	0.32	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
155	23.620	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.77	0.77	0.11	0.32	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
156	23.540	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.77	0.77	0.11	0.32	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
157	23.460	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.77	0.77	0.11	0.32	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
158	23.380	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.76	0.76	0.11	0.32	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
159	23.300	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.76	0.76	0.11	0.32	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
160	23.220	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.76	0.76	0.11	0.32	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
161	23.140	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.75	0.75	0.11	0.32	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
162	23.060	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.75	0.75	0.11	0.32	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
163	22.980	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.75	0.75	0.11	0.32	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
164	22.900	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.74	0.74	0.11	0.32	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
165	22.820	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.74	0.74	0.11	0.32	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
166	22.740	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.74	0.74	0.11	0.32	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
167	22.660	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.74	0.74	0.11	0.32	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
168	22.580	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.73	0.73	0.11	0.32	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
169	22.500	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.73	0.73	0.11	0.32	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00

170	22.420	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.73	0.73	0.11	0.32	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
171	22.340	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.73	0.73	0.11	0.32	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
172	22.260	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.72	0.72	0.11	0.32	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
173	22.180	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.72	0.72	0.11	0.32	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
174	22.100	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.72	0.72	0.11	0.32	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
175	22.020	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.72	0.72	0.11	0.32	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
176	21.940	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.72	0.72	0.11	0.32	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
177	21.860	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.71	0.71	0.11	0.32	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
178	21.780	6.90	0.56	0.13	0.21	0.00	0.03	0.21	0.00	0.57	0.71	0.71	0.11	0.32	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.54	0.12	0.20	0.00	0.03	0.20	0.00	0.50			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
143	24.580	22.20	40.12	172.80	6.91	5.90	0.67	0.23	0.67	0.23	0.69	0.00	0.00	0.00	0.00	3.51	0.00	0.	0.00
144	24.500	22.20	40.12	172.80	6.91	5.90	0.66	0.23	0.66	0.23	0.67	0.00	0.00	0.00	0.00	3.53	0.00	0.	0.00
145	24.420	22.20	40.12	172.80	6.91	5.90	0.65	0.22	0.65	0.22	0.65	0.00	0.00	0.00	0.00	3.54	0.00	0.	0.00
146	24.340	22.20	40.12	172.80	6.91	5.90	0.63	0.22	0.63	0.22	0.63	0.00	0.00	0.00	0.00	3.56	0.00	0.	0.00
147	24.260	22.20	40.12	172.80	6.91	5.90	0.62	0.22	0.62	0.22	0.61	0.00	0.00	0.00	0.00	3.57	0.00	0.	0.00
148	24.180	22.20	40.12	172.80	6.91	5.90	0.61	0.22	0.61	0.22	0.60	0.00	0.00	0.00	0.00	3.58	0.00	0.	0.00
149	24.100	22.20	40.12	172.80	6.91	5.90	0.59	0.21	0.59	0.21	0.58	0.00	0.00	0.00	0.00	3.60	0.00	0.	0.00
150	24.020	22.20	40.12	172.80	6.91	5.90	0.58	0.21	0.58	0.21	0.56	0.00	0.00	0.00	0.00	3.61	0.00	0.	0.00
151	23.940	22.20	40.12	172.80	6.91	5.90	0.57	0.21	0.57	0.21	0.54	0.00	0.00	0.00	0.00	3.62	0.00	0.	0.00
152	23.860	22.20	40.12	172.80	6.91	5.90	0.56	0.21	0.56	0.21	0.53	0.00	0.00	0.00	0.00	3.64	0.00	0.	0.00
153	23.780	22.20	40.12	172.80	6.91	5.90	0.55	0.21	0.55	0.21	0.51	0.00	0.00	0.00	0.00	3.65	0.00	0.	0.00
154	23.700	22.20	40.12	172.80	6.91	5.91	0.53	0.20	0.53	0.20	0.50	0.00	0.00	0.00	0.00	3.67	0.00	0.	0.00
155	23.620	22.20	40.12	172.80	6.91	5.91	0.52	0.20	0.52	0.20	0.48	0.00	0.00	0.00	0.00	3.68	0.00	0.	0.00
156	23.540	22.20	40.12	172.80	6.91	5.91	0.51	0.20	0.51	0.20	0.47	0.00	0.00	0.00	0.00	3.69	0.00	0.	0.00
157	23.460	22.20	40.12	172.80	6.91	5.92	0.50	0.20	0.50	0.20	0.45	0.00	0.00	0.00	0.00	3.71	0.00	0.	0.00
158	23.380	22.20	40.12	172.80	6.91	5.92	0.49	0.20	0.49	0.20	0.44	0.00	0.00	0.00	0.00	3.72	0.00	0.	0.00
159	23.300	22.20	40.12	172.80	6.91	5.92	0.48	0.20	0.48	0.20	0.43	0.00	0.00	0.00	0.00	3.74	0.00	0.	0.00
160	23.220	22.20	40.12	172.80	6.91	5.93	0.47	0.19	0.47	0.19	0.41	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.00
161	23.140	22.20	40.12	172.80	6.91	5.93	0.46	0.19	0.46	0.19	0.40	0.00	0.00	0.00	0.00	3.76	0.00	0.	0.00
162	23.060	22.20	40.12	172.80	6.91	5.94	0.45	0.19	0.45	0.19	0.39	0.00	0.00	0.00	0.00	3.78	0.00	0.	0.00
163	22.980	22.20	40.12	172.80	6.91	5.94	0.45	0.19	0.45	0.19	0.38	0.00	0.00	0.00	0.00	3.79	0.00	0.	0.00
164	22.900	22.20	40.12	172.80	6.91	5.95	0.44	0.19	0.44	0.19	0.37	0.00	0.00	0.00	0.00	3.81	0.00	0.	0.00
165	22.820	22.20	40.12	172.80	6.91	5.95	0.43	0.18	0.43	0.18	0.35	0.00	0.00	0.00	0.00	3.82	0.00	0.	0.00
166	22.740	22.20	40.12	172.80	6.91	5.96	0.42	0.18	0.42	0.18	0.34	0.00	0.00	0.00	0.00	3.83	0.00	0.	0.00
167	22.660	22.20	40.12	172.80	6.91	5.96	0.41	0.18	0.41	0.18	0.33	0.00	0.00	0.00	0.00	3.85	0.00	0.	0.00
168	22.580	22.20	40.12	172.80	6.91	5.97	0.40	0.18	0.40	0.18	0.32	0.00	0.00	0.00	0.00	3.86	0.00	0.	0.00
169	22.500	22.20	40.12	172.80	6.91	5.98	0.40	0.18	0.40	0.18	0.31	0.00	0.00	0.00	0.00	3.88	0.00	0.	0.00
170	22.420	22.20	40.12	172.80	6.91	5.98	0.39	0.18	0.39	0.18	0.30	0.00	0.00	0.00	0.00	3.89	0.00	0.	0.00
171	22.340	22.20	40.12	172.80	6.91	5.99	0.38	0.18	0.38	0.18	0.30	0.00	0.00	0.00	0.00	3.90	0.00	0.	0.00
172	22.260	22.20	40.12	172.80	6.91	5.99	0.37	0.17	0.37	0.17	0.29	0.00	0.00	0.00	0.00	3.92	0.00	0.	0.00
173	22.180	22.20	40.12	172.80	6.91	6.00	0.37	0.17	0.37	0.17	0.28	0.00	0.00	0.00	0.00	3.93	0.00	0.	0.00
174	22.100	22.20	40.12	172.80	6.91	6.01	0.36	0.17	0.36	0.17	0.27	0.00	0.00	0.00	0.00	3.94	0.00	0.	0.00
175	22.020	22.20	40.12	172.80	6.91	6.01	0.35	0.17	0.35	0.17	0.26	0.00	0.00	0.00	0.00	3.96	0.00	0.	0.00
176	21.940	22.20	40.12	172.80	6.91	6.02	0.35	0.17	0.35	0.17	0.25	0.00	0.00	0.00	0.00	3.97	0.00	0.	0.00
177	21.860	22.20	40.12	172.80	6.91	6.02	0.34	0.17	0.34	0.17	0.25	0.00	0.00	0.00	0.00	3.99	0.00	0.	0.00
178	21.780	22.20	40.12	172.80	6.91	6.02	0.33	0.16	0.33	0.16	0.24	0.00	0.00	0.00	0.00	4.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 6 CUTOFF: ST CHAS TO RKM 19.28 WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
179	UPR RCH	0.39733	22.20	40.12	172.80	6.91	6.02	0.33	0.16	0.33	0.16	0.24	0.00	0.00	0.00	4.00	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
179	21.78	21.68	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	6288.62	0.004	0.549	0.011
180	21.68	21.58	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	6366.46	0.004	0.549	0.011
181	21.58	21.48	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	6444.31	0.004	0.549	0.011
182	21.48	21.38	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	6522.15	0.004	0.549	0.011
183	21.38	21.28	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	6600.00	0.004	0.549	0.011
184	21.28	21.18	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	6677.85	0.004	0.549	0.011
185	21.18	21.08	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	6755.69	0.004	0.549	0.011
186	21.08	20.98	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	6833.54	0.004	0.549	0.011
187	20.98	20.88	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	6911.39	0.004	0.549	0.011
188	20.88	20.78	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	6989.23	0.004	0.549	0.011
189	20.78	20.68	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	7067.08	0.004	0.549	0.011
190	20.68	20.58	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	7144.92	0.004	0.549	0.011
191	20.58	20.48	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	7222.77	0.004	0.549	0.011
192	20.48	20.38	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	7300.62	0.004	0.549	0.011
193	20.38	20.28	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	7378.46	0.005	0.549	0.011
194	20.28	20.18	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	7456.31	0.005	0.549	0.011
195	20.18	20.08	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	7534.16	0.005	0.549	0.011
196	20.08	19.98	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	7612.00	0.005	0.549	0.011
197	19.98	19.88	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	7689.85	0.005	0.549	0.011
198	19.88	19.78	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	7767.69	0.005	0.549	0.011
199	19.78	19.68	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	7845.54	0.005	0.549	0.011
200	19.68	19.58	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	7923.39	0.005	0.549	0.011
201	19.58	19.48	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	8001.23	0.005	0.549	0.011
202	19.48	19.38	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	8079.08	0.005	0.549	0.011
203	19.38	19.28	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	8156.92	0.005	0.549	0.011
TOT						2.54			87262.49	61403.80					
AVG					0.0114		1.42	24.56			34.90				
CUM						9.62									

********** 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
179	21.680	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.99	0.99	0.11	0.32	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
180	21.580	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.99	0.99	0.11	0.32	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
181	21.480	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.99	0.99	0.11	0.32	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00

182	21.380	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.98	0.98	0.11	0.32	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
183	21.280	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.98	0.98	0.11	0.32	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
184	21.180	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.98	0.98	0.11	0.32	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
185	21.080	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.97	0.97	0.11	0.32	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
186	20.980	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.97	0.97	0.11	0.32	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
187	20.880	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.97	0.97	0.11	0.32	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
188	20.780	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.96	0.96	0.11	0.32	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
189	20.680	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.96	0.96	0.11	0.32	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
190	20.580	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.96	0.96	0.11	0.32	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
191	20.480	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.95	0.95	0.11	0.32	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
192	20.380	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.95	0.95	0.11	0.32	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
193	20.280	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.95	0.95	0.11	0.32	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
194	20.180	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.95	0.95	0.11	0.32	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
195	20.080	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.94	0.94	0.11	0.32	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
196	19.980	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.94	0.94	0.11	0.32	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
197	19.880	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.94	0.94	0.11	0.32	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
198	19.780	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.94	0.94	0.11	0.32	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
199	19.680	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.94	0.94	0.11	0.32	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
200	19.580	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.93	0.93	0.11	0.32	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
201	19.480	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.93	0.93	0.11	0.32	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
202	19.380	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.93	0.93	0.11	0.32	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
203	19.280	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.93	0.93	0.11	0.32	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.49	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
179	21.680	22.20	40.12	172.80	6.91	6.02	0.32	0.16	0.32	0.16	0.23	0.00	0.00	0.00	0.00	4.04	0.00	0.	0.00
180	21.580	22.20	40.12	172.80	6.91	6.01	0.32	0.16	0.32	0.16	0.22	0.00	0.00	0.00	0.00	4.08	0.00	0.	0.00
181	21.480	22.20	40.12	172.80	6.91	6.00	0.31	0.15	0.31	0.15	0.21	0.00	0.00	0.00	0.00	4.12	0.00	0.	0.00
182	21.380	22.20	40.12	172.80	6.91	5.99	0.30	0.15	0.30	0.15	0.20	0.00	0.00	0.00	0.00	4.16	0.00	0.	0.00
183	21.280	22.20	40.12	172.80	6.91	5.99	0.29	0.15	0.29	0.15	0.20	0.00	0.00	0.00	0.00	4.20	0.00	0.	0.00
184	21.180	22.20	40.12	172.80	6.91	5.98	0.28	0.14	0.28	0.14	0.19	0.00	0.00	0.00	0.00	4.24	0.00	0.	0.00
185	21.080	22.20	40.12	172.80	6.91	5.98	0.27	0.14	0.27	0.14	0.18	0.00	0.00	0.00	0.00	4.28	0.00	0.	0.00
186	20.980	22.20	40.12	172.80	6.91	5.98	0.27	0.14	0.27	0.14	0.17	0.00	0.00	0.00	0.00	4.32	0.00	0.	0.00
187	20.880	22.20	40.12	172.80	6.91	5.98	0.26	0.13	0.26	0.13	0.17	0.00	0.00	0.00	0.00	4.36	0.00	0.	0.00
188	20.780	22.20	40.12	172.80	6.91	5.98	0.25	0.13	0.25	0.13	0.16	0.00	0.00	0.00	0.00	4.40	0.00	0.	0.00
189	20.680	22.20	40.12	172.80	6.91	5.98	0.25	0.13	0.25	0.13	0.15	0.00	0.00	0.00	0.00	4.44	0.00	0.	0.00
190	20.580	22.20	40.12	172.80	6.91	5.98	0.24	0.12	0.24	0.12	0.15	0.00	0.00	0.00	0.00	4.48	0.00	0.	0.00
191	20.480	22.20	40.12	172.80	6.91	5.98	0.23	0.12	0.23	0.12	0.14	0.00	0.00	0.00	0.00	4.52	0.00	0.	0.00
192	20.380	22.20	40.12	172.80	6.91	5.98	0.23	0.12	0.23	0.12	0.14	0.00	0.00	0.00	0.00	4.56	0.00	0.	0.00
193	20.280	22.20	40.12	172.80	6.91	5.98	0.22	0.12	0.22	0.12	0.13	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.00
194	20.180	22.20	40.12	172.80	6.91	5.98	0.22	0.11	0.22	0.11	0.13	0.00	0.00	0.00	0.00	4.64	0.00	0.	0.00
195	20.080	22.20	40.12	172.80	6.91	5.98	0.21	0.11	0.21	0.11	0.12	0.00	0.00	0.00	0.00	4.68	0.00	0.	0.00
196	19.980	22.20	40.12	172.80	6.91	5.98	0.21	0.11	0.21	0.11	0.12	0.00	0.00	0.00	0.00	4.72	0.00	0.	0.00
197	19.880	22.20	40.12	172.80	6.91	5.99	0.20	0.11	0.20	0.11	0.11	0.00	0.00	0.00	0.00	4.76	0.00	0.	0.00
198	19.780	22.20	40.12	172.80	6.91	5.99	0.20	0.10	0.20	0.10	0.11	0.00	0.00	0.00	0.00	4.80	0.00	0.	0.00
199	19.680	22.20	40.12	172.80	6.91	5.99	0.19	0.10	0.19	0.10	0.11	0.00	0.00	0.00	0.00	4.84	0.00	0.	0.00
200	19.580	22.20	40.12	172.80	6.91	6.00	0.19	0.10	0.19	0.10	0.10	0.00	0.00	0.00	0.00	4.88	0.00	0.	0.00
201	19.480	22.20	40.12	172.80	6.91	6.00	0.18	0.10	0.18	0.10	0.10	0.00	0.00	0.00	0.00	4.92	0.00	0.	0.00
202	19.380	22.20	40.12	172.80	6.91	6.01	0.18	0.09	0.18	0.09	0.09	0.00	0.00	0.00	0.00	4.96	0.00	0.	0.00
203	19.280	22.20	40.12	172.80	6.91	6.01	0.17	0.09	0.17	0.09	0.09	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 7 CUTOFF: RKm 19.28 TO RKM 16.28 WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
204	UPR RCH	0.39733	22.20	40.12	172.80	6.91	6.01	0.17	0.09	0.17	0.09	0.09	0.00	0.00	0.00	5.00	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
204	19.28	19.20	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	8221.21	0.005	0.549	0.011
205	19.20	19.12	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	8285.50	0.005	0.549	0.011
206	19.12	19.04	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	8349.78	0.005	0.549	0.011
207	19.04	18.96	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	8414.07	0.005	0.549	0.011
208	18.96	18.88	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	8478.36	0.005	0.549	0.011
209	18.88	18.80	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	8542.64	0.005	0.549	0.011
210	18.80	18.72	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	8606.93	0.005	0.549	0.011
211	18.72	18.64	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	8671.21	0.005	0.549	0.011
212	18.64	18.56	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	8735.50	0.005	0.549	0.011
213	18.56	18.48	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	8799.79	0.005	0.549	0.011
214	18.48	18.40	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	8864.07	0.005	0.549	0.011
215	18.40	18.32	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	8928.36	0.005	0.549	0.011
216	18.32	18.24	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	8992.64	0.006	0.549	0.011
217	18.24	18.16	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9056.93	0.006	0.549	0.011
218	18.16	18.08	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9121.22	0.006	0.549	0.011
219	18.08	18.00	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9185.50	0.006	0.549	0.011
220	18.00	17.92	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9249.79	0.006	0.549	0.011
221	17.92	17.84	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9314.08	0.006	0.549	0.011
222	17.84	17.76	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9378.36	0.006	0.549	0.011
223	17.76	17.68	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9442.65	0.006	0.549	0.011
224	17.68	17.60	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9506.93	0.006	0.549	0.011
225	17.60	17.52	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9571.22	0.006	0.549	0.011
226	17.52	17.44	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9635.51	0.006	0.549	0.011
227	17.44	17.36	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9699.79	0.006	0.549	0.011
228	17.36	17.28	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9764.08	0.006	0.549	0.011
229	17.28	17.20	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9828.36	0.006	0.549	0.011
230	17.20	17.12	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9892.65	0.006	0.549	0.011
231	17.12	17.04	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	9956.94	0.006	0.549	0.011
232	17.04	16.96	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	10021.22	0.006	0.549	0.011
233	16.96	16.88	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	10085.51	0.006	0.549	0.011
234	16.88	16.80	0.39733	13.6	0.01138	0.08	1.42	24.56	2792.40	1964.92	34.90	10149.79	0.006	0.549	0.011
TOT						2.52			86564.38	60912.57					
AVG					0.0114		1.42	24.56			34.90				
CUM						12.14									

********** 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
204	19.200	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.93	0.93	0.11	0.32	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
205	19.120	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.92	0.92	0.11	0.32	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
206	19.040	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.92	0.92	0.11	0.32	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
207	18.960	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.92	0.92	0.11	0.32	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
208	18.880	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.92	0.92	0.11	0.32	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
209	18.800	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.92	0.92	0.11	0.32	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
210	18.720	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.92	0.92	0.11	0.32	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
211	18.640	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.92	0.92	0.11	0.32	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00
212	18.560	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.92	0.92	0.11	0.32	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
213	18.480	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.92	0.92	0.11	0.32	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
214	18.400	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.91	0.91	0.11	0.32	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00
215	18.320	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.91	0.91	0.11	0.32	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00
216	18.240	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.91	0.91	0.11	0.32	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
217	18.160	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.91	0.91	0.11	0.32	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
218	18.080	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.91	0.91	0.11	0.32	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
219	18.000	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.91	0.91	0.11	0.32	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
220	17.920	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.91	0.91	0.11	0.32	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
221	17.840	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.91	0.91	0.11	0.32	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
222	17.760	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.91	0.91	0.11	0.32	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
223	17.680	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.91	0.91	0.11	0.32	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
224	17.600	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.91	0.91	0.11	0.32	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
225	17.520	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.91	0.91	0.11	0.32	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
226	17.440	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.90	0.90	0.11	0.32	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
227	17.360	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.90	0.90	0.11	0.32	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
228	17.280	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.90	0.90	0.11	0.32	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
229	17.200	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.90	0.90	0.11	0.32	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
230	17.120	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.90	0.90	0.11	0.32	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00
231	17.040	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.90	0.90	0.11	0.32	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
232	16.960	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.90	0.90	0.11	0.32	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00
233	16.880	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.90	0.90	0.11	0.32	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
234	16.800	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.90	0.90	0.11	0.32	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.49	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
204	19.200	22.20	40.12	172.80	6.91	6.02	0.17	0.09	0.17	0.09	0.09	0.00	0.00	0.00	0.00	5.23	0.00	0.	0.00
205	19.120	22.20	40.12	172.80	6.91	6.02	0.17	0.09	0.17	0.09	0.09	0.00	0.00	0.00	0.00	5.45	0.00	0.	0.00
206	19.040	22.20	40.12	172.80	6.91	6.03	0.17	0.09	0.17	0.09	0.08	0.00	0.00	0.00	0.00	5.68	0.00	0.	0.00
207	18.960	22.20	40.12	172.80	6.91	6.04	0.16	0.09	0.16	0.09	0.08	0.00	0.00	0.00	0.00	5.90	0.00	0.	0.00
208	18.880	22.20	40.12	172.80	6.91	6.05	0.16	0.09	0.16	0.09	0.08	0.00	0.00	0.00	0.00	6.13	0.00	0.	0.00
209	18.800	22.20	40.11	172.80	6.91	6.05	0.16	0.08	0.16	0.08	0.08	0.00	0.00	0.00	0.00	6.35	0.00	0.	0.00
210	18.720	22.20	40.11	172.80	6.91	6.06	0.15	0.08	0.15	0.08	0.07	0.00	0.00	0.00	0.00	6.58	0.00	0.	0.00
211	18.640	22.20	40.11	172.80	6.91	6.07	0.15	0.08	0.15	0.08	0.07	0.00	0.00	0.00	0.00	6.81	0.00	0.	0.00
212	18.560	22.20	40.11	172.80	6.91	6.09	0.15	0.08	0.15	0.08	0.07	0.00	0.00	0.00	0.00	7.03	0.00	0.	0.00
213	18.480	22.20	40.11	172.80	6.91	6.10	0.15	0.08	0.15	0.08	0.07	0.00	0.00	0.00	0.00	7.26	0.00	0.	0.00
214	18.400	22.20	40.11	172.80	6.91	6.11	0.15	0.08	0.15	0.08	0.07	0.00	0.00	0.00	0.00	7.48	0.00	0.	0.00

215	18.320	22.20	40.11	172.80	6.91	6.12	0.14	0.08	0.14	0.08	0.06	0.00	0.00	0.00	0.00	7.71	0.00	0.	0.00
216	18.240	22.20	40.11	172.80	6.91	6.14	0.14	0.08	0.14	0.08	0.06	0.00	0.00	0.00	0.00	7.94	0.00	0.	0.00
217	18.160	22.20	40.11	172.80	6.91	6.15	0.14	0.08	0.14	0.08	0.06	0.00	0.00	0.00	0.00	8.16	0.00	0.	0.00
218	18.080	22.20	40.11	172.80	6.91	6.16	0.14	0.07	0.14	0.07	0.06	0.00	0.00	0.00	0.00	8.39	0.00	0.	0.00
219	18.000	22.20	40.10	172.80	6.91	6.18	0.14	0.07	0.14	0.07	0.06	0.00	0.00	0.00	0.00	8.61	0.00	0.	0.00
220	17.920	22.20	40.10	172.80	6.91	6.19	0.13	0.07	0.13	0.07	0.06	0.00	0.00	0.00	0.00	8.84	0.00	0.	0.00
221	17.840	22.20	40.10	172.80	6.91	6.21	0.13	0.07	0.13	0.07	0.05	0.00	0.00	0.00	0.00	9.06	0.00	0.	0.00
222	17.760	22.20	40.10	172.80	6.91	6.23	0.13	0.07	0.13	0.07	0.05	0.00	0.00	0.00	0.00	9.29	0.00	0.	0.00
223	17.680	22.20	40.10	172.80	6.91	6.24	0.13	0.07	0.13	0.07	0.05	0.00	0.00	0.00	0.00	9.52	0.00	0.	0.00
224	17.600	22.20	40.10	172.80	6.91	6.26	0.13	0.07	0.13	0.07	0.05	0.00	0.00	0.00	0.00	9.74	0.00	0.	0.00
225	17.520	22.20	40.10	172.80	6.91	6.28	0.12	0.07	0.12	0.07	0.05	0.00	0.00	0.00	0.00	9.97	0.00	0.	0.00
226	17.440	22.20	40.10	172.80	6.91	6.29	0.12	0.07	0.12	0.07	0.05	0.00	0.00	0.00	0.00	10.19	0.00	0.	0.00
227	17.360	22.20	40.10	172.80	6.91	6.31	0.12	0.07	0.12	0.07	0.05	0.00	0.00	0.00	0.00	10.42	0.00	0.	0.00
228	17.280	22.20	40.10	172.80	6.91	6.33	0.12	0.06	0.12	0.06	0.05	0.00	0.00	0.00	0.00	10.65	0.00	0.	0.00
229	17.200	22.20	40.09	172.80	6.91	6.35	0.12	0.06	0.12	0.06	0.04	0.00	0.00	0.00	0.00	10.87	0.00	0.	0.00
230	17.120	22.20	40.09	172.80	6.91	6.37	0.12	0.06	0.12	0.06	0.04	0.00	0.00	0.00	0.00	11.10	0.00	0.	0.00
231	17.040	22.20	40.09	172.80	6.91	6.39	0.12	0.06	0.12	0.06	0.04	0.00	0.00	0.00	0.00	11.32	0.00	0.	0.00
232	16.960	22.20	40.09	172.80	6.91	6.41	0.11	0.06	0.11	0.06	0.04	0.00	0.00	0.00	0.00	11.55	0.00	0.	0.00
233	16.880	22.20	40.09	172.80	6.91	6.43	0.11	0.06	0.11	0.06	0.04	0.00	0.00	0.00	0.00	11.77	0.00	0.	0.00
234	16.800	22.20	40.09	172.80	6.91	6.45	0.11	0.06	0.11	0.06	0.04	0.00	0.00	0.00	0.00	12.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 8 CUTOFF: RKM 16.28 TO BAYOU FOLSE WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
235	UPR RCH	0.39733	22.20	40.09	172.80	6.91	6.45	0.11	0.06	0.11	0.06	0.04	0.00	0.00	0.00	12.00	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
235	16.80	16.70	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	10232.98	0.006	0.549	0.011
236	16.70	16.60	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	10316.16	0.006	0.549	0.011
237	16.60	16.50	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	10399.34	0.006	0.549	0.011
238	16.50	16.40	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	10482.53	0.006	0.549	0.011
239	16.40	16.30	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	10565.71	0.006	0.549	0.011
240	16.30	16.20	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	10648.89	0.007	0.549	0.011
241	16.20	16.10	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	10732.07	0.007	0.549	0.011
242	16.10	16.00	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	10815.26	0.007	0.549	0.011
243	16.00	15.90	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	10898.44	0.007	0.549	0.011
244	15.90	15.80	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	10981.62	0.007	0.549	0.011
245	15.80	15.70	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	11064.80	0.007	0.550	0.011
246	15.70	15.60	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	11147.99	0.007	0.550	0.011
247	15.60	15.50	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	11231.17	0.007	0.551	0.011
248	15.50	15.40	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	11314.35	0.007	0.551	0.011
249	15.40	15.30	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	11397.53	0.007	0.552	0.011
250	15.30	15.20	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	11480.72	0.007	0.553	0.011
251	15.20	15.10	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	11563.90	0.007	0.553	0.011
252	15.10	15.00	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	11647.08	0.007	0.554	0.011

253	15.00	14.90	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	11730.26	0.007	0.555	0.012
254	14.90	14.80	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	11813.45	0.007	0.556	0.012
255	14.80	14.70	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	11896.63	0.007	0.557	0.012
256	14.70	14.60	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	11979.81	0.007	0.558	0.012
257	14.60	14.50	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	12063.00	0.007	0.559	0.012
258	14.50	14.40	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	12146.18	0.007	0.560	0.012
259	14.40	14.30	0.39733	13.6	0.01138	0.10	1.42	24.56	3490.50	2456.15	34.90	12229.36	0.007	0.561	0.012
TOT						2.54			87262.49	61403.80					
AVG					0.0114		1.42	24.56			34.90				
CUM						14.69									

********** 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
235	16.700	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.90	0.90	0.11	0.32	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
236	16.600	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.90	0.90	0.11	0.32	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00
237	16.500	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.90	0.90	0.11	0.32	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
238	16.400	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
239	16.300	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
240	16.200	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
241	16.100	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
242	16.000	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
243	15.900	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00
244	15.800	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
245	15.700	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
246	15.600	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
247	15.500	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
248	15.400	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
249	15.300	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
250	15.200	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
251	15.100	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.89	0.89	0.11	0.32	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
252	15.000	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
253	14.900	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
254	14.800	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
255	14.700	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
256	14.600	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
257	14.500	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
258	14.400	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
259	14.300	6.90	0.51	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.49	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
235	16.700	22.20	40.09	172.80	6.91	6.47	0.11	0.06	0.11	0.06	0.04	0.00	0.00	0.00	0.00	12.29	0.00	0.	0.00
236	16.600	22.20	40.09	172.80	6.91	6.50	0.11	0.06	0.11	0.06	0.04	0.00	0.00	0.00	0.00	12.58	0.00	0.	0.00
237	16.500	22.20	40.09	172.80	6.91	6.52	0.10	0.06	0.10	0.06	0.04	0.00	0.00	0.00	0.00	12.86	0.00	0.	0.00

238	16.400	22.20	40.09	172.80	6.91	6.55	0.10	0.06	0.10	0.06	0.04	0.00	0.00	0.00	0.00	13.15	0.00	0.	0.00
239	16.300	22.20	40.09	172.80	6.91	6.58	0.10	0.06	0.10	0.06	0.04	0.00	0.00	0.00	0.00	13.44	0.00	0.	0.00
240	16.200	22.20	40.09	172.80	6.91	6.60	0.10	0.05	0.10	0.05	0.04	0.00	0.00	0.00	0.00	13.73	0.00	0.	0.00
241	16.100	22.20	40.09	172.80	6.91	6.63	0.10	0.05	0.10	0.05	0.04	0.00	0.00	0.00	0.00	14.02	0.00	0.	0.00
242	16.000	22.20	40.09	172.80	6.91	6.66	0.09	0.05	0.09	0.05	0.03	0.00	0.00	0.00	0.00	14.30	0.00	0.	0.00
243	15.900	22.20	40.09	172.80	6.91	6.69	0.09	0.05	0.09	0.05	0.03	0.00	0.00	0.00	0.00	14.59	0.00	0.	0.00
244	15.800	22.20	40.09	172.80	6.91	6.72	0.09	0.05	0.09	0.05	0.03	0.00	0.00	0.00	0.00	14.88	0.00	0.	0.00
245	15.700	22.20	40.09	172.80	6.91	6.74	0.09	0.05	0.09	0.05	0.03	0.00	0.00	0.00	0.00	15.17	0.00	0.	0.00
246	15.600	22.20	40.09	172.80	6.91	6.77	0.09	0.05	0.09	0.05	0.03	0.00	0.00	0.00	0.00	15.46	0.00	0.	0.00
247	15.500	22.20	40.09	172.80	6.91	6.80	0.09	0.05	0.09	0.05	0.03	0.00	0.00	0.00	0.00	15.74	0.00	0.	0.00
248	15.400	22.20	40.09	172.80	6.91	6.83	0.08	0.05	0.08	0.05	0.03	0.00	0.00	0.00	0.00	16.03	0.00	0.	0.00
249	15.300	22.20	40.09	172.80	6.91	6.86	0.08	0.05	0.08	0.05	0.03	0.00	0.00	0.00	0.00	16.32	0.00	0.	0.00
250	15.200	22.20	40.09	172.80	6.91	6.89	0.08	0.05	0.08	0.05	0.03	0.00	0.00	0.00	0.00	16.61	0.00	0.	0.00
251	15.100	22.20	40.09	172.80	6.91	6.92	0.08	0.05	0.08	0.05	0.03	0.00	0.00	0.00	0.00	16.90	0.00	0.	0.00
252	15.000	22.20	40.09	172.80	6.91	6.95	0.08	0.05	0.08	0.05	0.03	0.00	0.00	0.00	0.00	17.18	0.00	0.	0.00
253	14.900	22.20	40.09	172.80	6.91	6.98	0.08	0.04	0.08	0.04	0.03	0.00	0.00	0.00	0.00	17.47	0.00	0.	0.00
254	14.800	22.20	40.09	172.80	6.91	7.01	0.08	0.04	0.08	0.04	0.03	0.00	0.00	0.00	0.00	17.76	0.00	0.	0.00
255	14.700	22.20	40.09	172.80	6.91	7.04	0.07	0.04	0.07	0.04	0.03	0.00	0.00	0.00	0.00	18.05	0.00	0.	0.00
256	14.600	22.20	40.09	172.80	6.91	7.07	0.07	0.04	0.07	0.04	0.03	0.00	0.00	0.00	0.00	18.34	0.00	0.	0.00
257	14.500	22.20	40.09	172.80	6.91	7.10	0.07	0.04	0.07	0.04	0.03	0.00	0.00	0.00	0.00	18.62	0.00	0.	0.00
258	14.400	22.20	40.09	172.80	6.91	7.13	0.07	0.04	0.07	0.04	0.03	0.00	0.00	0.00	0.00	18.91	0.00	0.	0.00
259	14.300	22.20	40.09	172.80	6.91	7.16	0.07	0.04	0.07	0.04	0.03	0.00	0.00	0.00	0.00	19.20	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 9 FOLSE: THERIOT CANAL TO RKM 12.3 WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
260	UPR RCH	0.39733	22.20	40.09	172.80	6.91	7.16	0.07	0.04	0.07	0.04	0.03	0.00	0.00	0.00	19.20	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
260	14.30	14.20	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	12320.65	0.007	0.521	0.010
261	14.20	14.10	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	12411.95	0.007	0.523	0.010
262	14.10	14.00	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	12503.24	0.007	0.524	0.010
263	14.00	13.90	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	12594.54	0.007	0.525	0.010
264	13.90	13.80	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	12685.83	0.007	0.526	0.010
265	13.80	13.70	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	12777.12	0.007	0.528	0.010
266	13.70	13.60	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	12868.42	0.007	0.529	0.010
267	13.60	13.50	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	12959.71	0.007	0.530	0.010
268	13.50	13.40	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	13051.01	0.007	0.531	0.010
269	13.40	13.30	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	13142.30	0.007	0.533	0.010
270	13.30	13.20	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	13233.59	0.007	0.534	0.010
271	13.20	13.10	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	13324.89	0.007	0.536	0.010
272	13.10	13.00	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	13416.18	0.007	0.537	0.010
273	13.00	12.90	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	13507.48	0.007	0.539	0.010
274	12.90	12.80	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	13598.77	0.007	0.540	0.011
275	12.80	12.70	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	13690.06	0.007	0.542	0.011

276	12.70	12.60	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	13781.36	0.007	0.543	0.011
277	12.60	12.50	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	13872.65	0.007	0.545	0.011
278	12.50	12.40	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	13963.95	0.007	0.546	0.011
279	12.40	12.30	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	14055.24	0.008	0.548	0.011
TOT						2.33			80066.36	52333.26					
AVG					0.0099		1.53	26.17			40.03				
CUM						17.02									

********** 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
260	14.200	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
261	14.100	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
262	14.000	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
263	13.900	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
264	13.800	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
265	13.700	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
266	13.600	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
267	13.500	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
268	13.400	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
269	13.300	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
270	13.200	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
271	13.100	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
272	13.000	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
273	12.900	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
274	12.800	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
275	12.700	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
276	12.600	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
277	12.500	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
278	12.400	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
279	12.300	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.46	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
260	14.200	22.20	40.09	172.80	6.91	7.20	0.07	0.04	0.07	0.04	0.03	0.00	0.00	0.00	0.00	19.22	0.00	0.	0.00
261	14.100	22.20	40.09	172.80	6.91	7.23	0.07	0.04	0.07	0.04	0.03	0.00	0.00	0.00	0.00	19.23	0.00	0.	0.00
262	14.000	22.20	40.09	172.80	6.91	7.27	0.07	0.04	0.07	0.04	0.03	0.00	0.00	0.00	0.00	19.25	0.00	0.	0.00
263	13.900	22.20	40.09	172.80	6.91	7.30	0.07	0.04	0.07	0.04	0.03	0.00	0.00	0.00	0.00	19.26	0.00	0.	0.00
264	13.800	22.20	40.09	172.80	6.91	7.33	0.08	0.04	0.08	0.04	0.03	0.00	0.00	0.00	0.00	19.27	0.00	0.	0.00
265	13.700	22.20	40.09	172.80	6.91	7.36	0.08	0.04	0.08	0.04	0.03	0.00	0.00	0.00	0.00	19.29	0.00	0.	0.00
266	13.600	22.20	40.09	172.80	6.91	7.39	0.08	0.04	0.08	0.04	0.03	0.00	0.00	0.00	0.00	19.31	0.00	0.	0.00
267	13.500	22.20	40.09	172.80	6.91	7.42	0.08	0.03	0.08	0.03	0.03	0.00	0.00	0.00	0.00	19.32	0.00	0.	0.00
268	13.400	22.20	40.09	172.80	6.91	7.44	0.08	0.03	0.08	0.03	0.03	0.00	0.00	0.00	0.00	19.34	0.00	0.	0.00
269	13.300	22.20	40.09	172.80	6.91	7.46	0.08	0.03	0.08	0.03	0.03	0.00	0.00	0.00	0.00	19.35	0.00	0.	0.00
270	13.200	22.20	40.09	172.80	6.91	7.49	0.08	0.03	0.08	0.03	0.03	0.00	0.00	0.00	0.00	19.36	0.00	0.	0.00

271	13.100	22.20	40.09	172.80	6.91	7.51	0.08	0.03	0.08	0.03	0.03	0.00	0.00	0.00	0.00	19.38	0.00	0.	0.00
272	13.000	22.20	40.09	172.80	6.91	7.53	0.08	0.03	0.08	0.03	0.03	0.00	0.00	0.00	0.00	19.40	0.00	0.	0.00
273	12.900	22.20	40.09	172.80	6.91	7.55	0.08	0.03	0.08	0.03	0.03	0.00	0.00	0.00	0.00	19.41	0.00	0.	0.00
274	12.800	22.20	40.09	172.80	6.91	7.57	0.08	0.03	0.08	0.03	0.03	0.00	0.00	0.00	0.00	19.42	0.00	0.	0.00
275	12.700	22.20	40.09	172.80	6.91	7.59	0.08	0.03	0.08	0.03	0.03	0.00	0.00	0.00	0.00	19.44	0.00	0.	0.00
276	12.600	22.20	40.09	172.80	6.91	7.60	0.08	0.03	0.08	0.03	0.03	0.00	0.00	0.00	0.00	19.45	0.00	0.	0.00
277	12.500	22.20	40.09	172.80	6.91	7.62	0.08	0.03	0.08	0.03	0.03	0.00	0.00	0.00	0.00	19.47	0.00	0.	0.00
278	12.400	22.20	40.09	172.80	6.91	7.64	0.08	0.03	0.08	0.03	0.03	0.00	0.00	0.00	0.00	19.49	0.00	0.	0.00
279	12.300	22.20	40.09	172.80	6.91	7.65	0.09	0.03	0.09	0.03	0.03	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 10 FOLSE: RKM 12.30 TO RKM 10.20 WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
280	UPR RCH	0.39733	22.20	40.09	172.80	6.91	7.65	0.09	0.03	0.09	0.03	0.03	0.00	0.00	0.00	19.50	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
280	12.30	12.20	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	14149.21	0.008	0.549	0.011
281	12.20	12.10	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	14243.18	0.008	0.551	0.011
282	12.10	12.00	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	14337.15	0.008	0.553	0.011
283	12.00	11.90	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	14431.11	0.008	0.554	0.011
284	11.90	11.80	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	14525.08	0.008	0.556	0.011
285	11.80	11.70	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	14619.05	0.008	0.558	0.011
286	11.70	11.60	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	14713.02	0.008	0.559	0.011
287	11.60	11.50	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	14806.99	0.008	0.561	0.011
288	11.50	11.40	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	14900.96	0.008	0.563	0.011
289	11.40	11.30	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	14994.93	0.008	0.565	0.011
290	11.30	11.20	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	15088.90	0.008	0.566	0.011
291	11.20	11.10	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	15182.86	0.008	0.568	0.011
292	11.10	11.00	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	15276.83	0.008	0.570	0.011
293	11.00	10.90	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	15370.80	0.008	0.572	0.011
294	10.90	10.80	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	15464.77	0.008	0.574	0.011
295	10.80	10.70	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	15558.74	0.008	0.575	0.011
296	10.70	10.60	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	15652.71	0.008	0.577	0.011
297	10.60	10.50	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	15746.68	0.008	0.579	0.011
298	10.50	10.40	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	15840.65	0.008	0.581	0.011
299	10.40	10.30	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	15934.61	0.009	0.583	0.011
300	10.30	10.20	0.39733	13.6	0.00993	0.12	1.53	26.17	4003.32	2616.66	40.03	16028.58	0.009	0.585	0.011
TOT						2.45			84069.68	54949.92					
AVG					0.0099		1.53	26.17			40.03				
CUM						19.47									

********** 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
280	12.200	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.83	0.83	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
281	12.100	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.83	0.83	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
282	12.000	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.83	0.83	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
283	11.900	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.83	0.83	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
284	11.800	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.83	0.83	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
285	11.700	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.83	0.83	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
286	11.600	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.83	0.83	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
287	11.500	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.83	0.83	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
288	11.400	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.83	0.83	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
289	11.300	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.83	0.83	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
290	11.200	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.84	0.84	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
291	11.100	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.84	0.84	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
292	11.000	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.84	0.84	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
293	10.900	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.84	0.84	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
294	10.800	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.84	0.84	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
295	10.700	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.84	0.84	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
296	10.600	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.84	0.84	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
297	10.500	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.84	0.84	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
298	10.400	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.84	0.84	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
299	10.300	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.84	0.84	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
300	10.200	6.90	0.48	0.13	0.21	0.00	0.03	0.21	0.00	0.79	0.84	0.84	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.46	0.12	0.20	0.00	0.03	0.20	0.00	0.69			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
280	12.200	22.20	40.09	172.80	6.91	7.67	0.09	0.03	0.09	0.03	0.03	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
281	12.100	22.20	40.09	172.80	6.91	7.69	0.09	0.03	0.09	0.03	0.03	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
282	12.000	22.20	40.09	172.80	6.91	7.70	0.09	0.04	0.09	0.04	0.03	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
283	11.900	22.20	40.09	172.80	6.91	7.72	0.09	0.04	0.09	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
284	11.800	22.20	40.09	172.80	6.91	7.73	0.09	0.04	0.09	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
285	11.700	22.20	40.09	172.80	6.91	7.74	0.09	0.04	0.09	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
286	11.600	22.20	40.09	172.80	6.91	7.76	0.09	0.04	0.09	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
287	11.500	22.20	40.09	172.80	6.91	7.77	0.09	0.04	0.09	0.04	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
288	11.400	22.20	40.09	172.80	6.91	7.78	0.09	0.05	0.09	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
289	11.300	22.20	40.09	172.80	6.91	7.79	0.09	0.05	0.09	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
290	11.200	22.20	40.09	172.80	6.91	7.80	0.09	0.05	0.09	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
291	11.100	22.20	40.09	172.80	6.91	7.81	0.09	0.05	0.09	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
292	11.000	22.20	40.09	172.80	6.91	7.82	0.09	0.05	0.09	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
293	10.900	22.20	40.09	172.80	6.91	7.83	0.09	0.05	0.09	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
294	10.800	22.20	40.09	172.80	6.91	7.84	0.09	0.05	0.09	0.05	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
295	10.700	22.20	40.09	172.80	6.91	7.84	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
296	10.600	22.20	40.09	172.80	6.91	7.85	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
297	10.500	22.20	40.09	172.80	6.91	7.86	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
298	10.400	22.20	40.09	172.80	6.91	7.87	0.10	0.06	0.10	0.06	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
299	10.300	22.20	40.09	172.80	6.91	7.88	0.10	0.06	0.10	0.06	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
300	10.200	22.20	40.09	172.80	6.91	7.91	0.10	0.06	0.10	0.06	0.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 11 FOLSE: RKM 10.20 TO RKM 7.40 WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
301	UPR RCH	0.39733	22.20	40.09	172.80	6.91	7.91	0.10	0.06	0.10	0.06	0.02	0.00	0.00	0.00	19.50	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
301	10.20	10.00	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	16333.38	0.005	0.376	0.007
302	10.00	9.80	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	16638.19	0.006	0.380	0.007
303	9.80	9.60	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	16942.99	0.006	0.384	0.007
304	9.60	9.40	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	17247.79	0.006	0.388	0.007
305	9.40	9.20	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	17552.59	0.006	0.392	0.007
306	9.20	9.00	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	17857.39	0.006	0.396	0.008
307	9.00	8.80	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	18162.19	0.006	0.400	0.008
308	8.80	8.60	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	18466.99	0.006	0.405	0.008
309	8.60	8.40	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	18771.79	0.006	0.409	0.008
310	8.40	8.20	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	19076.59	0.006	0.413	0.008
311	8.20	8.00	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	19381.39	0.006	0.418	0.008
312	8.00	7.80	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	19686.19	0.007	0.422	0.008
313	7.80	7.60	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	19990.99	0.007	0.426	0.008
314	7.60	7.40	0.39733	13.6	0.00615	0.38	1.58	40.93	12921.05	8186.46	64.61	20295.79	0.007	0.431	0.008
TOT						5.27			180894.73	114610.46					
AVG					0.0062		1.58	40.93			64.61				
CUM						24.74									

********** 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
301	10.000	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.34	0.34	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
302	9.800	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.34	0.34	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
303	9.600	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.34	0.34	0.11	0.32	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
304	9.400	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.34	0.34	0.11	0.32	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
305	9.200	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.34	0.34	0.11	0.32	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
306	9.000	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.34	0.34	0.11	0.32	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
307	8.800	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.34	0.34	0.11	0.32	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
308	8.600	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.34	0.34	0.11	0.32	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
309	8.400	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.34	0.34	0.11	0.32	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
310	8.200	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.34	0.34	0.11	0.32	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
311	8.000	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.34	0.34	0.11	0.32	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
312	7.800	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.34	0.34	0.11	0.32	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
313	7.600	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.34	0.34	0.11	0.32	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00

314	7.400	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.44	0.12	0.20	0.00	0.03	0.20	0.00	0.25			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
301	10.000	22.20	40.09	172.80	6.91	8.02	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.54	0.00	0.	0.00
302	9.800	22.20	40.09	172.80	6.91	8.13	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.57	0.00	0.	0.00
303	9.600	22.20	40.09	172.80	6.91	8.22	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.61	0.00	0.	0.00
304	9.400	22.20	40.09	172.80	6.91	8.30	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.64	0.00	0.	0.00
305	9.200	22.20	40.09	172.80	6.91	8.36	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.68	0.00	0.	0.00
306	9.000	22.20	40.09	172.80	6.91	8.42	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.71	0.00	0.	0.00
307	8.800	22.20	40.09	172.80	6.91	8.47	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.75	0.00	0.	0.00
308	8.600	22.20	40.09	172.80	6.91	8.52	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.79	0.00	0.	0.00
309	8.400	22.20	40.09	172.80	6.91	8.55	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.82	0.00	0.	0.00
310	8.200	22.20	40.09	172.80	6.91	8.59	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.86	0.00	0.	0.00
311	8.000	22.20	40.09	172.80	6.91	8.62	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.89	0.00	0.	0.00
312	7.800	22.20	40.09	172.80	6.91	8.64	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.93	0.00	0.	0.00
313	7.600	22.20	40.09	172.80	6.91	8.67	0.09	0.06	0.09	0.06	0.02	0.00	0.00	0.00	0.00	19.96	0.00	0.	0.00
314	7.400	22.20	40.09	172.80	6.91	8.69	0.08	0.06	0.08	0.06	0.02	0.00	0.00	0.00	0.00	20.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 12 FOLSE: RKM 7.40 TO RACELAND C. WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
315	UPR RCH	0.39733	22.20	40.09	172.80	6.91	8.69	0.08	0.06	0.08	0.06	0.02	0.00	0.00	0.00	20.00	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
315	7.40	7.25	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	20533.81	0.007	0.434	0.008
316	7.25	7.10	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	20771.83	0.007	0.438	0.008
317	7.10	6.95	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	21009.85	0.007	0.442	0.008
318	6.95	6.80	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	21247.87	0.007	0.445	0.008
319	6.80	6.65	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	21485.88	0.007	0.449	0.009
320	6.65	6.50	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	21723.90	0.007	0.452	0.009
321	6.50	6.35	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	21961.92	0.007	0.456	0.009
322	6.35	6.20	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	22199.94	0.007	0.459	0.009
323	6.20	6.05	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	22437.95	0.007	0.463	0.009
324	6.05	5.90	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	22675.97	0.007	0.467	0.009
325	5.90	5.75	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	22913.99	0.008	0.470	0.009
326	5.75	5.60	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	23152.01	0.008	0.474	0.009

327	5.60	5.45	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	23390.02	0.008	0.478	0.009
328	5.45	5.30	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	23628.04	0.008	0.481	0.009
329	5.30	5.15	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	23866.06	0.008	0.485	0.009
330	5.15	5.00	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	24104.08	0.008	0.489	0.009
331	5.00	4.85	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	24342.09	0.008	0.492	0.009
332	4.85	4.70	0.39733	13.6	0.00615	0.28	1.58	40.93	9690.79	6139.85	64.61	24580.11	0.008	0.496	0.009
TOT						5.08			174434.25	110517.23					
AVG					0.0062		1.58	40.93			64.61				
CUM						29.82									

********** 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
315	7.250	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
316	7.100	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
317	6.950	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
318	6.800	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
319	6.650	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
320	6.500	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
321	6.350	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
322	6.200	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
323	6.050	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
324	5.900	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
325	5.750	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
326	5.600	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
327	5.450	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
328	5.300	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
329	5.150	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
330	5.000	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
331	4.850	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
332	4.700	6.90	0.46	0.13	0.21	0.00	0.03	0.21	0.00	0.29	0.33	0.33	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.44	0.12	0.20	0.00	0.03	0.20	0.00	0.25			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
315	7.250	22.20	40.09	172.80	6.91	8.70	0.08	0.06	0.08	0.06	0.02	0.00	0.00	0.00	0.00	20.06	0.00	0.	0.00
316	7.100	22.20	40.09	172.80	6.91	8.72	0.08	0.06	0.08	0.06	0.02	0.00	0.00	0.00	0.00	20.11	0.00	0.	0.00
317	6.950	22.20	40.09	172.80	6.91	8.73	0.08	0.05	0.08	0.05	0.02	0.00	0.00	0.00	0.00	20.17	0.00	0.	0.00
318	6.800	22.20	40.09	172.80	6.91	8.74	0.08	0.05	0.08	0.05	0.02	0.00	0.00	0.00	0.00	20.22	0.00	0.	0.00
319	6.650	22.20	40.09	172.80	6.91	8.75	0.08	0.05	0.08	0.05	0.02	0.00	0.00	0.00	0.00	20.28	0.00	0.	0.00
320	6.500	22.20	40.09	172.80	6.91	8.76	0.08	0.05	0.08	0.05	0.02	0.00	0.00	0.00	0.00	20.33	0.00	0.	0.00
321	6.350	22.20	40.09	172.80	6.91	8.78	0.08	0.05	0.08	0.05	0.02	0.00	0.00	0.00	0.00	20.39	0.00	0.	0.00
322	6.200	22.20	40.09	172.80	6.91	8.79	0.08	0.05	0.08	0.05	0.02	0.00	0.00	0.00	0.00	20.44	0.00	0.	0.00
323	6.050	22.20	40.10	172.80	6.91	8.80	0.08	0.05	0.08	0.05	0.02	0.00	0.00	0.00	0.00	20.50	0.00	0.	0.00
324	5.900	22.20	40.10	172.80	6.91	8.81	0.08	0.05	0.08	0.05	0.02	0.00	0.00	0.00	0.00	20.56	0.00	0.	0.00
325	5.750	22.20	40.10	172.80	6.91	8.82	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	20.61	0.00	0.	0.00

326	5.600	22.20	40.10	172.80	6.91	8.83	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	20.67	0.00	0.	0.00
327	5.450	22.20	40.10	172.80	6.91	8.84	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	20.72	0.00	0.	0.00
328	5.300	22.20	40.10	172.80	6.91	8.84	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	20.78	0.00	0.	0.00
329	5.150	22.20	40.10	172.80	6.91	8.85	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	20.83	0.00	0.	0.00
330	5.000	22.20	40.10	172.80	6.91	8.86	0.07	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	20.89	0.00	0.	0.00
331	4.850	22.20	40.10	172.80	6.91	8.85	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	20.94	0.00	0.	0.00
332	4.700	22.20	40.10	172.80	6.91	8.82	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 13 FOLSE: RACELAND C. TO RKM 2.32 WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
333	UPR RCH	0.39733	22.20	40.10	172.80	6.91	8.82	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	21.00	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
333	4.70	4.58	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	24761.58	0.013	0.577	0.015
334	4.58	4.46	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	24943.04	0.013	0.581	0.015
335	4.46	4.34	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	25124.51	0.013	0.584	0.015
336	4.34	4.22	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	25305.98	0.013	0.587	0.016
337	4.22	4.11	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	25487.45	0.014	0.591	0.016
338	4.11	3.99	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	25668.91	0.014	0.594	0.016
339	3.99	3.87	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	25850.38	0.014	0.597	0.016
340	3.87	3.75	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	26031.85	0.014	0.600	0.016
341	3.75	3.63	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	26213.31	0.014	0.604	0.016
342	3.63	3.51	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	26394.78	0.014	0.607	0.016
343	3.51	3.39	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	26576.25	0.014	0.610	0.016
344	3.39	3.27	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	26757.71	0.014	0.614	0.016
345	3.27	3.15	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	26939.18	0.014	0.617	0.016
346	3.15	3.03	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	27120.65	0.014	0.620	0.016
347	3.03	2.92	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	27302.11	0.015	0.624	0.017
348	2.92	2.80	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	27483.58	0.015	0.627	0.017
349	2.80	2.68	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	27665.05	0.015	0.631	0.017
350	2.68	2.56	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	27846.51	0.015	0.634	0.017
351	2.56	2.44	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	28027.98	0.015	0.637	0.017
352	2.44	2.32	0.39733	13.6	0.00992	0.14	1.06	37.80	4768.09	4498.20	40.07	28209.45	0.015	0.641	0.017
TOT						2.78			95361.86	89964.01					
AVG					0.0099		1.06	37.80			40.07				
CUM						32.60									

********** 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

333	4.581	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
334	4.462	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
335	4.343	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
336	4.224	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
337	4.105	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
338	3.986	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
339	3.867	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
340	3.748	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
341	3.629	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
342	3.510	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
343	3.391	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
344	3.272	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
345	3.153	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
346	3.034	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
347	2.915	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
348	2.796	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
349	2.677	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
350	2.558	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
351	2.439	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
352	2.320	6.90	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.66	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
333	4.581	22.20	40.10	172.80	6.91	8.70	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
334	4.462	22.20	40.10	172.80	6.91	8.59	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
335	4.343	22.20	40.10	172.80	6.91	8.49	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
336	4.224	22.20	40.10	172.80	6.91	8.40	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
337	4.105	22.20	40.10	172.80	6.91	8.31	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
338	3.986	22.20	40.10	172.80	6.91	8.23	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
339	3.867	22.20	40.10	172.80	6.91	8.16	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
340	3.748	22.20	40.10	172.80	6.91	8.09	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
341	3.629	22.20	40.10	172.80	6.91	8.03	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
342	3.510	22.20	40.10	172.80	6.91	7.98	0.07	0.04	0.07	0.04	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
343	3.391	22.20	40.10	172.80	6.91	7.93	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
344	3.272	22.20	40.10	172.80	6.91	7.88	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
345	3.153	22.20	40.10	172.80	6.91	7.84	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
346	3.034	22.20	40.10	172.80	6.91	7.80	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
347	2.915	22.20	40.10	172.80	6.91	7.77	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
348	2.796	22.20	40.10	172.80	6.91	7.73	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
349	2.677	22.20	40.10	172.80	6.91	7.70	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
350	2.558	22.20	40.10	172.80	6.91	7.68	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
351	2.439	22.20	40.10	172.80	6.91	7.65	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
352	2.320	22.20	40.10	172.80	6.91	7.63	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
REACH NO. 14 FOLSE: RKM 2.32 TO COMPANY CANAL WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
353	UPR RCH	0.39733	22.20	40.10	172.80	6.91	7.63	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	21.00	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
353	2.32	2.20	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	28392.69	0.015	0.644	0.017
354	2.20	2.09	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	28575.94	0.015	0.647	0.017
355	2.09	1.97	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	28759.18	0.015	0.651	0.017
356	1.97	1.86	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	28942.42	0.015	0.654	0.017
357	1.86	1.74	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	29125.67	0.016	0.658	0.017
358	1.74	1.62	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	29308.91	0.016	0.661	0.017
359	1.62	1.51	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	29492.16	0.016	0.665	0.018
360	1.51	1.39	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	29675.40	0.016	0.668	0.018
361	1.39	1.28	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	29858.64	0.016	0.671	0.018
362	1.28	1.16	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	30041.89	0.016	0.675	0.018
363	1.16	1.04	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	30225.13	0.016	0.678	0.018
364	1.04	0.93	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	30408.38	0.016	0.682	0.018
365	0.93	0.81	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	30591.62	0.016	0.685	0.018
366	0.81	0.70	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	30774.87	0.016	0.689	0.018
367	0.70	0.58	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	30958.11	0.017	0.692	0.018
368	0.58	0.46	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	31141.35	0.017	0.696	0.018
369	0.46	0.35	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	31324.60	0.017	0.699	0.018
370	0.35	0.23	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	31507.84	0.017	0.702	0.019
371	0.23	0.12	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	31691.09	0.017	0.706	0.019
372	0.12	0.00	0.39733	13.6	0.00992	0.14	1.06	37.80	4647.89	4384.80	40.07	31874.33	0.017	0.709	0.019
TOT						2.71			92957.76	87695.99					
AVG					0.0099		1.06	37.80			40.07				
CUM						35.30									

********** 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
353	2.204	6.98	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
354	2.088	7.06	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
355	1.972	7.15	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
356	1.856	7.23	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
357	1.740	7.31	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
358	1.624	7.40	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
359	1.508	7.48	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
360	1.392	7.57	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
361	1.276	7.66	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
362	1.160	7.75	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
363	1.044	7.84	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
364	0.928	7.93	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00

365	0.812	8.02	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
366	0.696	8.11	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.87	0.87	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
367	0.580	8.21	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.88	0.88	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
368	0.464	8.30	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.90	0.90	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
369	0.348	8.40	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	0.94	0.94	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
370	0.232	8.50	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	1.05	1.05	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
371	0.116	8.60	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	1.37	1.37	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
372	0.000	8.70	0.69	0.13	0.21	0.00	0.03	0.21	0.00	0.85	2.24	2.24	0.11	0.32	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.66	0.12	0.20	0.00	0.03	0.20	0.00	0.74			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
353	2.204	22.20	38.10	172.80	6.91	7.62	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
354	2.088	22.20	36.10	172.80	6.91	7.62	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
355	1.972	22.21	34.10	172.80	6.91	7.62	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
356	1.856	22.21	32.10	172.80	6.91	7.63	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
357	1.740	22.21	30.10	172.80	6.91	7.65	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
358	1.624	22.21	28.10	172.80	6.91	7.67	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
359	1.508	22.21	26.10	172.80	6.91	7.70	0.06	0.04	0.06	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
360	1.392	22.22	24.10	172.81	6.91	7.73	0.06	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
361	1.276	22.22	22.10	172.81	6.91	7.77	0.06	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
362	1.160	22.22	20.10	172.81	6.91	7.81	0.06	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
363	1.044	22.22	18.10	172.81	6.91	7.86	0.06	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
364	0.928	22.22	16.10	172.81	6.91	7.91	0.06	0.03	0.06	0.03	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
365	0.812	22.23	14.10	172.83	6.92	7.96	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
366	0.696	22.23	12.10	172.88	6.93	8.01	0.07	0.04	0.07	0.04	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
367	0.580	22.23	10.10	173.00	6.96	8.06	0.09	0.05	0.09	0.05	0.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
368	0.464	22.23	8.10	173.32	7.03	8.09	0.13	0.07	0.13	0.07	0.02	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
369	0.348	22.23	6.10	174.17	7.21	8.09	0.26	0.14	0.26	0.14	0.05	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
370	0.232	22.24	4.10	176.41	7.71	7.97	0.59	0.32	0.59	0.32	0.13	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
371	0.116	22.24	2.10	182.31	9.01	7.57	1.52	0.81	1.52	0.81	0.34	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
372	0.000	22.24	0.10	197.76	12.43	6.45	4.06	2.15	4.06	2.15	0.94	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

STREAM SUMMARY
BAYOU CUTOFF

WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF 120302
WATER QUALITY WINTER PROJECTION RUN WITH 90% REDUCTION

TRAVEL TIME = 35.30 DAYS

MAXIMUM EFFLUENT = 13.60 PERCENT

FLOW	=	0.34330	TO	0.39733	m³/s
DISPERSION	=	0.3758	TO	1.4326	m²/s
VELOCITY	=	0.00615	TO	0.06543	m/s
DEPTH	=	0.55	TO	1.58	m
WIDTH	=	9.80	TO	40.93	m
BOD DECAY	=	0.13	TO	0.13	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.33	TO	2.24	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d

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 REAERATION        =    0.46   TO    1.62      per day
 BOD SETTLING      =    0.21   TO    0.21      per day
 NBOD DECAY        =    0.11   TO    0.11      per day
 NBOD SETTLING     =    0.32   TO    0.32      per day

 TEMPERATURE       =   22.20   TO   22.24      deg C
 DISSOLVED OXYGEN  =    5.81   TO    8.86      mg/L


     .....EXECUTION COMPLETED
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Appendix D6 - Winter Justifications

Bayou Folse/Cutoff 120302 Winter Projection Justification

DATA TYPE 3 - PROGRAM CONSTANTS			
CONSTANT NAME	**VALUE**	**UNITS**	**DATA SOURCE**
DISPERSION EQUATION	3		Equation used to account for all modes of transport.
HEADWATER EXCHANGE RATIO	1		This is done to depict dispersive boundaries - Company Canal and ICWW.
TIDE HEIGHT	0.0426		USGS Site - Company Canal at Salt Water Barrier
TIDAL PERIOD	26		USGS Site - Company Canal at Salt Water Barrier
PERIOD OF TIDAL RISE	12		USGS Site - Company Canal at Salt Water Barrier
K2 MAXIMUM	25	1/day at 20 deg C	EPA Policy in the absence of a measured value.
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.
SETTLING RATE UNITS	2		By making the settling rate a velocity the rate becomes dependent upon the depth.
WIND VELOCITY	0.68		Calculated from Houma Weather Station.
KL MINIMUM	0.7	m/day	The minimum KL of 2.3 ft/day converted to 0.70 m/day.

Bayou Folse/Cutoff 120302 Winter Projection Justification						
DATA TYPE 8 - REACH IDENTIFICATION DATA						
Reach	**ID**	**Name**	**Upstream River Kilometer**	**Downstream River Kilometer**	**Element Length, meters**	**Data Source**
1	BC	Thibodaux to Dugas Ditch	33.20	31.24	40.0000	ARC MAP Calc.
2	BC	Dugas Ditch to Arpent Canal	31.24	28.66	60.0000	ARC MAP Calc.
3	BC	Arpent Canal to Thoroughbred Canal	28.66	27.62	80.0000	ARC MAP Calc.
4	BC	Thoroughbred Canal to RKM 24.66	27.62	24.66	80.0000	ARC MAP Calc.
5	BC	RKM 24.66 to St. Charles	24.66	21.78	80.0000	ARC MAP Calc.
6	BC	St. Charles to RKM 19.28	21.78	19.28	100.0000	ARC MAP Calc.
7	BC	RKM 19.28 to RKM 16.28	19.28	16.80	80.0000	ARC MAP Calc.
8	BC	RKM 16.28 to Bayou Folse	16.80	14.30	100.0000	ARC MAP Calc.
9	BF	Theriot Canal to RKM 12.3	14.30	12.30	100.0000	ARC MAP Calc.
10	BF	RKM 12.3 to RKM 10.20	12.30	10.20	100.0000	ARC MAP Calc.
11	BF	RKM 10.20 to RKM 7.40	10.20	7.40	200.0000	ARC MAP Calc.
12	BF	RKM 7.40 to Raceland Canal	7.40	4.70	150.0000	ARC MAP Calc.
13	BF	Raceland Canal to RKM 2.32	4.70	2.32	119.0000	ARC MAP Calc.
14	BF	RKM 2.32 to Company Canal	2.32	0.00	116.0000	ARC MAP Calc.

Bayou Folse/Cutoff 120302 Winter Projection Justification									
		Data Type 9 - Advective Hydraulic Coefficients							
Reach	Name	Width Coeff. "a"	Width Exp. "b"	Width Const. "c"	Data Source	Depth Coeff. "d"	Depth Exp. "e"	Depth Const. "f"	Data Source
1	Thibodaux to Dugas Ditch	0.806	1	9.520	BCUT-01	0.143	1	0.5	BCUT-01
2	Dugas Ditch to Arpent Canal	0.942	1	14.260	BCUT-02	0.07	1	0.960	BCUT-02
3	Arpent Canal to Thoroughbred Canal	0.4	1	20.310	BCUT-03	0.05	1	1.180	BCUT-03
4	Thoroughbred Canal to RKM 24.66	0.4	1	20.310	BCUT-03	0.05	1	1.180	BCUT-03
5	RKM 24.66 to St. Charles	0.762	1	24.380	BCUT-04	0.039	1	1.280	BCUT-04
6	St. Charles to RKM 19.28	0.029	1	24.550	BCUT-06	0.028	1	1.410	BCUT-06
7	RKM 19.28 to RKM 16.28	0.029	1	24.550	BCUT-06	0.028	1	1.410	BCUT-06
8	RKM 16.28 to Bayou Folse	0.029	1	24.550	BCUT-06	0.028	1	1.410	BCUT-06
9	Theriot Canal to RKM 12.3	0.067	1	26.140	BF-03	0.025	1	1.520	BF-03
10	RKM 12.3 to RKM 10.20	0.067	1	26.140	BF-03	0.025	1	1.520	BF-03
11	RKM 10.20 to RKM 7.40	0.333	1	40.800	BF-02	0.021	1	1.570	BF-02
12	RKM 7.40 to Raceland Canal	0.333	1	40.800	BF-02	0.021	1	1.570	BF-02
13	Raceland Canal to RKM 2.32	0	0	37.800	BF-01	0	0	1.060	BF-01
14	RKM 2.32 to Company Canal	0	0	37.800	BF-01	0	0	1.060	BF-01

Bayou Folse/Cutoff 120302 Winter Projection Justification							
DATA TYPE 10 - DISPERSIVE HYDRAULIC COEFFICIENTS							
Reach	Tidal Range	Data Source	a	b	c	d	Data Source
1	0.657	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
2	0.670	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
3	0.682	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
4	0.697	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
5	0.720	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
6	0.744	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
7	0.768	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
8	0.795	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
9	0.819	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
10	0.843	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
11	0.874	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
12	0.910	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
13	0.947	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion
14	0.981	Tidal fraction was obtained from Dynhyd hydrologic calibration.	36.00	0.8333	0.0	1.0	Constant values used for advective dispersion

Bayou Folse/Cutoff 120302 Winter Projection Justification								
DATA TYPE 11-INITIAL CONDITIONS								
Reach	Name	Temp, deg C	DO, mg/l	Data Source	Sal, ppt	Data Source	Chlorophyll a	Data Source
1	Thibodaux to Dugas Ditch	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment	0.22	BCUT-01 Insitu	2.00	Calibration
2	Dugas Ditch to Arpent Canal	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BCUT-02 Insitu	2.00	Calibration
3	Arpent Canal to Thoroughbred Canal	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.07	BCUT-03 Insitu	2.00	Calibration
4	Thoroughbred Canal to RKM 24.66	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.07	BCUT-03 Insitu	3.20	Calibration
5	RKM 24.66 to St. Charles	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.12	BCUT-04 Insitu	3.50	Calibration
6	St. Charles to RKM 19.28	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.12	BCUT-04 Insitu	4.00	Calibration
7	RKM 19.28 to RKM 16.28	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.12	BCUT-04 Insitu	5.00	Calibration
8	RKM 16.28 to Bayou Folse	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-03 Insitu	12.00	Calibration
9	Theriot Canal to RKM 12.3	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-03 Insitu	19.20	Calibration
10	RKM 12.3 to RKM 10.20	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-03 Insitu	19.50	Calibration
11	RKM 10.20 to RKM 7.40	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-02 Insitu	19.50	Calibration
12	RKM 7.40 to Raceland Canal	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.09	BFOL-02 Insitu	20.00	Calibration
13	Raceland Canal to RKM 2.32	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.10	BFOL-01 Insitu	21.00	Calibration
14	RKM 2.32 to Company Canal	22.24	5.00	Temp - 90th Percentile Temp for WQN 0341 DO - DO Standard for Subsegment 120302	0.10	BFOL-01 Insitu	21.00	Calibration

		DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS				
REACH	NAME	K2 OPT	Data Source	a	BKGRND SOD, gmO2/m2/day at 20 deg C	Data Source
1	Thibodaux to Dugas Ditch	11	Texas Equation		0.250	90% Reduction
2	Dugas Ditch to Arpent Canal	11	Texas Equation		0.250	90% Reduction
3	Arpent Canal to Thoroughbred Canal	11	Texas Equation		0.125	90% Reduction
4	Thoroughbred Canal to RKM 24.66	11	Texas Equation		0.313	90% Reduction
5	RKM 24.66 to St. Charles	11	Texas Equation		0.500	90% Reduction
6	St. Charles to RKM 19.28	11	Texas Equation		0.738	90% Reduction
7	RKM 19.28 to RKM 16.28	11	Texas Equation		0.738	90% Reduction
8	RKM 16.28 to Bayou Folse	11	Texas Equation		0.738	90% Reduction
9	Theriot Canal to RKM 12.3	11	Texas Equation		0.738	90% Reduction
10	RKM 12.3 to RKM 10.20	11	Texas Equation		0.688	90% Reduction
11	RKM 10.20 to RKM 7.40	11	Texas Equation		0.250	90% Reduction
12	RKM 7.40 to Raceland Canal	11	Texas Equation		0.250	90% Reduction
13	Raceland Canal to RKM 2.32	11	Texas Equation		0.738	90% Reduction
14	RKM 2.32 to Company Canal	11	Texas Equation		0.738	90% Reduction

Bayou Folse/Cutoff 120302 Winter Projection		Bayou Folse/Cutoff 120302 Winter Projection Justification							
		DATA TYPE 12 - REAERATION, SEDIMENT OXYGEN DEMAND AND BOD COEFFICIENTS							
REACH	NAME	Aerobic BOD1 Dec Rate (1/day)	Data Source	BOD1 SETT RATE (1/day)	Data Source	Aerobic BOD2 Dec Rate (1/day)	Data Source	BOD2 SETT RATE (1/day)	Data Source
1	Thibodaux to Dugas Ditch	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
2	Dugas Ditch to Arpent Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
3	Arpent Canal to Thoroughbred Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
4	Thoroughbred Canal to RKM 24.66	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
5	RKM 24.66 to St. Charles	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
6	St. Charles to RKM 19.28	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
7	RKM 19.28 to RKM 16.28	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
8	RKM 16.28 to Bayou Folse	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
9	Theriot Canal to RKM 12.3	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
10	RKM 12.3 to RKM 10.20	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
11	RKM 10.20 to RKM 7.40	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
12	RKM 7.40 to Raceland Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
13	Raceland Canal to RKM 2.32	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration
14	RKM 2.32 to Company Canal	0.1180	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration	0.031	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.2	Calibration

Bayou Folse/Cutoff 120302 Winter Projection Justification					
DATA TYPE 13 - NITROGEN AND PHOSPHORUS COEFFICIENTS					
Reach	**Name**	**NBOD decay rate, 1/day**	**Data Source**	**NBOD settling rate, 1/day**	**Data Source**
1	Thibodaux to Dugas Ditch	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
2	Dugas Ditch to Arpent Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
3	Arpent Canal to Thoroughbred Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
4	Thoroughbred Canal to RKM 24.66	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
5	RKM 24.66 to St. Charles	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
6	St. Charles to RKM 19.28	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
7	RKM 19.28 to RKM 16.28	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
8	RKM 16.28 to Bayou Folse	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
9	Theriot Canal to RKM 12.3	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
10	RKM 12.3 to RKM 10.20	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
11	RKM 10.20 to RKM 7.40	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
12	RKM 7.40 to Raceland Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
13	Raceland Canal to RKM 2.32	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration
14	RKM 2.32 to Company Canal	0.1000	Average decay rate of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02, BFOL-03, CC-01, CC-02, AND AC-01	0.30	Calibration

Bayou Folse/Cutoff 120302 Summer Projection Justification					
DATA TYPE 19 - NONPOINT SOURCES					
Reach	**Reach Name**	**UCBOD1, kg/day**	**UCBOD2, kg/day**	**NBOD, kg/day**	**Data Source**
1	Thibodaux to Dugas Ditch	1.418	1.182	0.000	90% Reduction
2	Dugas Ditch to Arpent Canal	1.058	0.423	0.000	90% Reduction
3	Arpent Canal to Thoroughbred Canal	0.470	0.251	0.502	90% Reduction
4	Thoroughbred Canal to RKM 24.66	1.785	2.142	0.446	90% Reduction
5	RKM 24.66 to St. Charles	2.846	2.135	0.071	90% Reduction
6	St. Charles to RKM 19.28	1.519	0.127	0.380	90% Reduction
7	RKM 19.28 to RKM 16.28	1.883	0.439	0.377	90% Reduction
8	RKM 16.28 to Bayou Folse	1.139	0.380	0.886	90% Reduction
9	Theriot Canal to RKM 12.3	2.670	0.238	0.811	90% Reduction
10	RKM 12.3 to RKM 10.20	3.004	2.103	0.751	90% Reduction
11	RKM 10.20 to RKM 7.40	5.104	2.552	1.659	90% Reduction
12	RKM 7.40 to Raceland Canal	4.101	1.640	1.599	90% Reduction
13	Raceland Canal to RKM 2.32	1.990	0.663	0.284	90% Reduction
14	RKM 2.32 to Company Canal	1.940	0.600	0.277	90% Reduction

Bayou Folse/Cutoff 120302 Winter Projection Justification									
DATA TYPES 20 - HEADWATER DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES									
Headwater Name	Element No.	Logical Unit Number	Headwater Flow, cms	Data Source	Temp, deg C	Salinity	Conductivity	Chlorides	Data Source
Bayou Cutoff	1	1	0.3433	1/3 Average Tidal Flow as per regs	22.24	0.22	200.0	8.00	90th percentile temp for WQN 0341 for Temp, Site BCUT-02 Insitu for Salinity, Lab for Chlorides

Bayou Folse/Cutoff 120302 Winter Projection Justification					
DATA TYPES 21 - HEADWATER DATA FOR DO, BOD, AND NITROGEN					
Headwater Name	Dissolved Oxygen, mg/L	UCBOD1, mg/l	UCBOD2, mg/l	NBOD, mg/l	Data Source
Bayou Cutoff	7.83	0.74	0.53	0.30	DO is 90% DO Sat for WQN 0341; CBOD1, CBOD2, and NBOD - 90% Reduction

Bayou Folse/Cutoff 120302 Winter Projection Justification					
	DATA TYPES 24 - WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES				
Wasteload / Withdrawal Name	**EL #**	**Flow, cms**	**Data Source**	**Temperature, deg C**	**Data Source**
Lafourche SD#1	30	0.00986	Design Flow of 180,000 gpd + MOS	30.00	Per LTP
Dugas Ditch	50	0.00850	Composite Design Flow + MOS	30.00	Per LTP
Grand Marnier	63	0.00463	Design Flow of 84,400 gpd + MOS	30.00	Per LTP
Arpent Canal	93	0.00283	LTP Default	22.24	90th Percentile Temp for WQN 0341
Thoroughbred Ditch	109	0.00275	Design Flow of 50,400 gpd + MOS	30	Per LTP

Bayou Folse/Cutoff 120302 Winter Projection Justification

DATA TYPES 25 - WASTELOAD DATA FOR DO, BOD, AND NITROGEN

Wasteload / Withdrawal Name	EL #	DO, mg/l	UCBOD1, mg/l	UCBOD2, mg/l	UNBOD, mg/l	Data Source
Lafourche SD#1	30	2.00	23.00	0.00	43.00	Permit Limits
Dugas Ditch	50	2.00	33.10	0.00	61.80	Composite Permit Limits
Grand Marnier	63	2.00	23.00	0.00	43.00	Permit Limits
Arpent Canal	93	5.00	0.25	0.13	0.06	DO Standard for Subsegment 120302; CBOD1, CBOD2, and NBOD - 90% Reduction
Thoroughbred Ditch	109	2.00	23.00	0.00	43.00	Permit Limits

Bayou Folse/Cutoff 120302 Winter Projection Justification

DATA TYPES 27 - LOWER BOUNDARY CONDITIONS

Parameter	Value	Units	Data Source
TEMPERATURE	22.24	^{O}C	90th Percentile Temp for WQN 0341
SALINITY	0.10	ppt	BFOL-01 Insitu
CHLORIDES	16.9	ppm	BFOL-01 Lab Data
CONDUCTIVITY	218.00	umhos/cm	BFOL-01 Insitu
DISSOLVED OXYGEN	5.00	mg/L	DO Standard for subsegment 120302
CBOD1	7.540	mg/L	BFOL-01 Lab Data
CBOD2	3.960	mg/L	BFOL-01 Lab Data
CHLOROPHYLL A	21.0	ug/L	Calibration
NBOD	1.760	mg/L	BFOL-01 Lab Data

Appendix E - Projection Model Development

Appendix E1 – Summer Loading

Final Report
Bayou Folse/Bayou Cutoff Watershed TMDL
Subsegment 120302
Originated: February 6, 2008
Modified: March 31, 2008

Summer Projection, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body: **BAYOU FOLSE (SUBSEGMENT 12302)**

Shaded cells are input values for calculations. ARGIN 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	Non-Point UCBOD1	Non-Point UCBOD2	Total Non-Point UNBOD	SOD @ 20°C	Total Calb. Benthic Load (TCBL)	Reach Length	Proj. Model Avg. Reach Width	Proj. Temp.	Background Benthic Load	Background percentage reduction	Percentage Reduction of man-made sources	Reduced Man-Made Benthic Load	Reduced TCBL adjusted for MOS	Reduced UCBOD1 Load	Reduced UCBOD2 Load	Reduced UNBOD Load	Reduced SOD Load at Projection Temp.	SOD @ 20°C	Non-Point UCBOD1 INPUTS	Non-Point UCBOD2 INPUTS	Non-Point UNBOD INPUTS	Total MOS at Projection Temp.	Non-Point UCBOD1 LA	Non-Point UCBOD2 LA	Non-Point UCBOD LA	Non-Point Organic-N LA	Benthic Ammonia LA	Non-Point UNBOD LA	Benthic Phosphorus 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 Celcius)	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/day	kg/day	kg O_2/day	kg/day	kg O_2/day
Reach 1 - Bayou Cutoff: Thibodaux to Dugas Ditch	**2.954**	**2.462**	**0.000**	**2.00**	**7.416**	**1.96**	**1.96**	**30.94**	**0.00**	**0%**	**90%**	**0.74**	**0.93**	**1.13**	**0.95**	**0.00**	**1.53**	**0.250**	**1.418**	**1.182**	**0.000**	**0.90**	**1.13**	**0.95**	**2.08**	**0.00**	**0.00**	**0.00**	**0.00**	**1.53**
Reach 2 - Bayou Cutoff: Dugas Ditch to Arpent Canal	**1.272**	**0.509**	**0.000**	**2.00**	**3.780**	**2.58**	**2.58**	**30.94**	**0.00**	**0%**	**90%**	**0.38**	**0.47**	**0.85**	**0.34**	**0.00**	**2.65**	**0.250**	**1.058**	**0.423**	**0.000**	**0.96**	**0.85**	**0.34**	**1.19**	**0.00**	**0.00**	**0.00**	**0.00**	**2.65**
Reach 3 - Bayou Cutoff: Arpent Canal to Thoroughbred Ditch	**3.479**	**1.856**	**3.711**	**1.00**	**10.046**	**1.04**	**1.04**	**30.94**	**0.00**	**0%**	**90%**	**1.00**	**1.26**	**0.38**	**0.20**	**0.40**	**0.22**	**0.125**	**0.470**	**0.251**	**0.502**	**0.30**	**0.38**	**0.20**	**0.58**	**0.00**	**0.00**	**0.40**	**0.00**	**0.22**
Reach 4 - Bayou Cutoff: Thoroughbred Ditch to RKM 24.66	**1.630**	**1.956**	**0.407**	**2.50**	**6.493**	**2.96**	**2.96**	**30.94**	**0.00**	**0%**	**90%**	**0.65**	**0.81**	**1.43**	**1.71**	**0.36**	**4.36**	**0.313**	**1.785**	**2.142**	**0.446**	**1.97**	**1.43**	**1.71**	**3.14**	**0.00**	**0.00**	**0.36**	**0.00**	**4.36**
Reach 5 - Bayou Cutoff: RKM 24.66 to St. Charles Canal	**2.745**	**2.059**	**0.069**	**4.00**	**8.872**	**2.88**	**2.88**	**30.94**	**0.00**	**0%**	**90%**	**0.89**	**1.11**	**2.28**	**1.71**	**0.06**	**6.61**	**0.500**	**2.846**	**2.135**	**0.071**	**2.66**	**2.28**	**1.71**	**3.98**	**0.00**	**0.00**	**0.06**	**0.00**	**6.61**
Reach 6 - Bayou Cutoff: St. Charles Canal to RKM 19.28	**1.944**	**0.162**	**0.486**	**5.90**	**8.492**	**2.50**	**2.50**	**30.94**	**0.00**	**0%**	**90%**	**0.85**	**1.06**	**1.22**	**0.10**	**0.30**	**7.34**	**0.738**	**1.519**	**0.127**	**0.380**	**2.24**	**1.22**	**0.10**	**1.32**	**0.00**	**0.00**	**0.30**	**0.00**	**7.34**
Reach 7 - Bayou Cutoff: RKM 19.28 to RKM 16.80	**2.450**	**0.572**	**0.490**	**5.90**	**9.411**	**2.48**	**2.48**	**30.94**	**0.00**	**0%**	**90%**	**0.94**	**1.18**	**1.51**	**0.35**	**0.30**	**7.23**	**0.738**	**1.883**	**0.439**	**0.377**	**2.35**	**1.51**	**0.35**	**1.86**	**0.00**	**0.00**	**0.30**	**0.00**	**7.23**
Reach 8 - Bayou Cutoff: RKM 16.28 to Bayou Folse	**1.458**	**0.486**	**1.134**	**5.90**	**8.978**	**2.50**	**2.50**	**30.94**	**0.00**	**0%**	**90%**	**0.90**	**1.12**	**0.91**	**0.30**	**0.71**	**7.34**	**0.738**	**1.139**	**0.380**	**0.886**	**2.32**	**0.91**	**0.30**	**1.22**	**0.00**	**0.00**	**0.71**	**0.00**	**7.34**
Reach 9 - Bayou Folse: Theriot Canal to RKM 12.30	**5.341**	**0.477**	**1.621**	**5.90**	**13.339**	**2.00**	**2.00**	**30.94**	**0.00**	**0%**	**90%**	**1.33**	**1.67**	**2.14**	**0.19**	**0.65**	**4.70**	**0.738**	**2.670**	**0.238**	**0.811**	**1.92**	**2.14**	**0.19**	**2.33**	**0.00**	**0.00**	**0.65**	**0.00**	**4.70**
Reach 10 - Bayou Folse: RKM 12.30 to RKM 10.20	**5.450**	**3.815**	**1.362**	**5.50**	**16.127**	**2.10**	**2.10**	**30.94**	**0.00**	**0%**	**90%**	**1.61**	**2.02**	**2.40**	**1.68**	**0.60**	**4.83**	**0.688**	**3.004**	**2.103**	**0.751**	**2.38**	**2.40**	**1.68**	**4.09**	**0.00**	**0.00**	**0.60**	**0.00**	**4.83**
Reach 11 - Bayou Folse: RKM 10.20 to RKM 7.40	**5.208**	**2.604**	**1.692**	**2.00**	**11.504**	**2.80**	**2.80**	**30.94**	**0.00**	**0%**	**90%**	**1.15**	**1.44**	**4.08**	**2.04**	**1.33**	**3.12**	**0.250**	**5.104**	**2.552**	**1.659**	**2.64**	**4.08**	**2.04**	**6.12**	**0.00**	**0.00**	**1.33**	**0.00**	**3.12**
Reach 12 - Bayou Folse: RKM 7.40 to Raceland Canal	**4.500**	**1.800**	**1.755**	**2.00**	**10.056**	**2.70**	**2.70**	**30.94**	**0.00**	**0%**	**90%**	**1.01**	**1.26**	**3.28**	**1.31**	**1.28**	**2.90**	**0.250**	**4.101**	**1.640**	**1.599**	**2.19**	**3.28**	**1.31**	**4.59**	**0.00**	**0.00**	**1.28**	**0.00**	**2.90**
Reach 13 - Bayou Folse: Raceland Canal to RKM 2.32	**2.811**	**0.937**	**0.402**	**5.90**	**10.049**	**2.38**	**2.38**	**30.94**	**0.00**	**0%**	**90%**	**1.00**	**1.26**	**1.59**	**0.53**	**0.23**	**6.66**	**0.738**	**1.990**	**0.663**	**0.284**	**2.25**	**1.59**	**0.53**	**2.12**	**0.00**	**0.00**	**0.23**	**0.00**	**6.66**
Reach 14 - RKM 2.32 to Company Canal	**2.883**	**0.892**	**0.412**	**5.90**	**10.088**	**2.32**	**2.32**	**30.94**	**0.00**	**0%**	**90%**	**1.01**	**1.26**	**1.55**	**0.48**	**0.22**	**6.32**	**0.738**	**1.940**	**0.600**	**0.277**	**2.14**	**1.55**	**0.48**	**2.03**	**0.00**	**0.00**	**0.22**	**0.00**	**6.32**
Sub-Total												**13.47**	**16.83**	**24.74**	**11.90**	**6.43**	**65.82**		**30.93**	**14.88**	**8.04**	**27.22**	**24.74**	**11.90**	**36.64**	**0.00**	**0.00**	**6.43**	**0.00**	**65.82**

Summer TMDL Calculations for Point Source loads:

BAYOU FOLSE (SUBSEGMENT 12302)

Input data into the shaded cells.

Point Source Loading Calculations

Pt. Source / Facility Description and Reach #	Receiving Stream	Included in the Projection Model (Yes/No)	Anticipated/ design flow (cms)	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)**	**Reserve/ MOS (kg/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**	**I + M + P**
Lafourche SD#1 (Country Club Subdivision)	**Bayou Cutoff**	**Yes**	**0.00789**	**0.00986**	**10.0**	**10.0**	**20%**	**23.0**	**20**	**16**	**4**	**43.0**	**37**	**29**	**7**	**56**	**45**	**11**
Dugas Ditch	**Bayou Cutoff**	**Yes**	**0.00680**	**0.00850**	**30.0**	**15.0**	**20%**	**69.0**	**51**	**41**	**10**	**64.5**	**47**	**38**	**9**	**98**	**78**	**20**
Grand Marnier Subdivison STP	**Bayou Cutoff**	**Yes**	**0.00370**	**0.00462**	**10.0**	**10.0**	**20%**	**23.0**	**9**	**7**	**2**	**43.0**	**17**	**14**	**3**	**26**	**21**	**5**
Thoroughbred Ditch	**Bayou Cutoff**	**Yes**	**0.00220**	**0.00275**	**10.0**	**10.0**	**20%**	**23.0**	**5**	**4**	**1**	**43.0**	**10**	**8**	**2**	**16**	**13**	**3**
SUB-TOTAL Loads									**84.91**	**67.93**	**16.98**		**111.38**	**89.11**	**22.28**	**196.29**	**157.04**	**39.26**

(1) - Load(kg/day) = 86.4 x Ultimate Conc.(mg/l) x Modeled Flow(cms)
(2) - [UCBOD conc. = CBOD5(mg/l) x 2.3] and [UNBOD conc. = NH3N(mg/l) x 4.3]

Summer TMDL calculations and Projection model calculations for Headwater / Tributary loads:

BAYOU FOLSE (SUBSEGMENT 12302)

Shaded cells are input values for calculations.	ARGIN OF SAFETY (MOS) (%) =
Values to be used in the projection models.	If modeling the nitrogen series, be s

Headwater / Tributary Load Determinations

Headwater / Tributary Description and Reach #	FROM CALIBRATION				BACKGROUND VALUES					Reduced Man-Made Loads			PROJECTION VALUES						
	Seasonal Critical flow (cms)	UCBOD1 (mg O_2/L)	UCBOD2 (mg O_2/L)	UNBOD (mg O_2/L)	Background UCBOD1 conc. (mg O_2/L)	Background UCBOD2 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 UCBOD2 load (kg O_2/day)	Reduced UNBOD load (kg O_2/day)	Projection UCBOD1 input conc. (mg O_2/L)	Projection UCBOD2 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 CBOD2 LA (kg O_2/day)**	**Total NBOD LA (kg O_2/day)**
Headwater Bayou Cutoff	**0.33430**	**5.92**	**4.23**	**2.43**	**0.00**	**0.00**	**0.00**	**0%**	**90%**	**17.10**	**12.22**	**7.02**	**0.74**	**0.53**	**0.30**	**9.08**	**17.10**	**12.22**	**7.02**
Arpent Canal	**0.00283**	**2.00**	**1.00**	**0.50**	**0.00**	**0.00**	**0.00**	**0%**	**90%**	**0.05**	**0.02**	**0.01**	**0.25**	**0.13**	**0.06**	**0.02**	**0.05**	**0.02**	**0.01**
SUB-TOTAL TMDL LOADING										**17**	**12**	**7.03**				**9.11**	**17.15**	**12.24**	**7.03**

Appendix E2 – Winter Loading

Winter Projection, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body: **BAYOU FOLSE (SUBSEGMENT 12302)**

Shaded cells are input values for calculations. ARGIN 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	Non-Point UCBOD1	Non-Point UCBOD2	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	Background percentage reduction	Percentage Reduction of man-made sources	Reduced Man-Made Benthic Load	Reduced TCBL adjusted for MOS	Reduced UCBOD1 Load	Reduced UCBOD2 Load	Reduced UNBOD Load	Reduced SOD Load at Projection Temp.	SOD @ 20°C	Non-Point UCBOD1 INPUTS	Non-Point UCBOD2 INPUTS	Non-Point UNBOD INPUTS	**Total MOS at Projection Temp.**	**Non-Point UCBOD1 LA**	**Non-Point UCBOD2 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 Celcius)	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g O_2 / [(m^2)(day)]	g / [(m2)(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
Reach 1 - Bayou Cutoff: Thibodaux to Dugas Ditch	**2.954**	**2.462**	**0.000**	**2.00**	**7.416**	**1.96**	**1.96**	**22.24**	**0.00**	**0.00**	**7.42**	**0.00**	**0%**	**90%**	**0.74**	**0.93**	**1.13**	**0.95**	**0.00**	**0.88**	**0.250**	**1.418**	**1.182**	**0.000**	**0.74**	**1.13**	**0.95**	**0.00**	**0.88**
Reach 2 - Bayou Cutoff: Dugas Ditch to Arpent Canal	**1.272**	**0.509**	**0.000**	**2.00**	**3.780**	**2.58**	**2.58**	**22.24**	**0.00**	**0.00**	**3.78**	**0.00**	**0%**	**90%**	**0.38**	**0.47**	**0.85**	**0.34**	**0.00**	**1.53**	**0.250**	**1.058**	**0.423**	**0.000**	**0.68**	**0.85**	**0.34**	**0.00**	**1.53**
Reach 3 - Bayou Cutoff: Arpent Canal to Thoroughbred Ditch	**3.479**	**1.856**	**3.711**	**1.00**	**10.046**	**1.04**	**1.04**	**22.24**	**0.00**	**0.00**	**10.05**	**0.00**	**0%**	**90%**	**1.00**	**1.26**	**0.38**	**0.20**	**0.40**	**0.12**	**0.125**	**0.470**	**0.251**	**0.502**	**0.28**	**0.38**	**0.20**	**0.40**	**0.12**
Reach 4 - Bayou Cutoff: Thoroughbred Ditch to RKM 24.66	**1.630**	**1.956**	**0.407**	**2.50**	**6.493**	**2.96**	**2.96**	**22.24**	**0.00**	**0.00**	**6.49**	**0.00**	**0%**	**90%**	**0.65**	**0.81**	**1.43**	**1.71**	**0.36**	**2.52**	**0.313**	**1.785**	**2.142**	**0.446**	**1.51**	**1.43**	**1.71**	**0.36**	**2.52**
Reach 5 - Bayou Cutoff: RKM 24.66 to St. Charles Canal	**2.745**	**2.059**	**0.069**	**4.00**	**8.872**	**2.88**	**2.88**	**22.24**	**0.00**	**0.00**	**8.87**	**0.00**	**0%**	**90%**	**0.89**	**1.11**	**2.28**	**1.71**	**0.06**	**3.82**	**0.500**	**2.846**	**2.135**	**0.071**	**1.97**	**2.28**	**1.71**	**0.06**	**3.82**
Reach 6 - Bayou Cutoff: St. Charles Canal to RKM 19.28	**1.944**	**0.162**	**0.486**	**5.90**	**8.492**	**2.50**	**2.50**	**22.24**	**0.00**	**0.00**	**8.49**	**0.00**	**0%**	**90%**	**0.85**	**1.06**	**1.22**	**0.10**	**0.30**	**4.25**	**0.738**	**1.519**	**0.127**	**0.380**	**1.47**	**1.22**	**0.10**	**0.30**	**4.25**
Reach 7 - Bayou Cutoff: RKM 19.28 to RKM 16.80	**2.450**	**0.572**	**0.490**	**5.90**	**9.411**	**2.48**	**2.48**	**22.24**	**0.00**	**0.00**	**9.41**	**0.00**	**0%**	**90%**	**0.94**	**1.18**	**1.51**	**0.35**	**0.30**	**4.18**	**0.738**	**1.883**	**0.439**	**0.377**	**1.58**	**1.51**	**0.35**	**0.30**	**4.18**
Reach 8 - Bayou Cutoff: RKM 16.28 to Bayou Folse	**1.458**	**0.486**	**1.134**	**5.90**	**8.978**	**2.50**	**2.50**	**22.24**	**0.00**	**0.00**	**8.98**	**0.00**	**0%**	**90%**	**0.90**	**1.12**	**0.91**	**0.30**	**0.71**	**4.25**	**0.738**	**1.139**	**0.380**	**0.886**	**1.54**	**0.91**	**0.30**	**0.71**	**4.25**
Reach 9 - Bayou Folse: Theriot Canal to RKM 12.30	**5.341**	**0.477**	**1.621**	**5.90**	**13.339**	**2.00**	**2.00**	**22.24**	**0.00**	**0.00**	**13.34**	**0.00**	**0%**	**90%**	**1.33**	**1.67**	**2.14**	**0.19**	**0.65**	**2.72**	**0.738**	**2.670**	**0.238**	**0.811**	**1.42**	**2.14**	**0.19**	**0.65**	**2.72**
Reach 10 - Bayou Folse: RKM 12.30 to RKM 10.20	**5.450**	**3.815**	**1.362**	**5.50**	**16.127**	**2.10**	**2.10**	**22.24**	**0.00**	**0.00**	**16.13**	**0.00**	**0%**	**90%**	**1.61**	**2.02**	**2.40**	**1.68**	**0.60**	**2.79**	**0.688**	**3.004**	**2.103**	**0.751**	**1.87**	**2.40**	**1.68**	**0.60**	**2.79**
Reach 11 - Bayou Folse: RKM 10.20 to RKM 7.40	**5.208**	**2.604**	**1.692**	**2.00**	**11.504**	**2.80**	**2.80**	**22.24**	**0.00**	**0.00**	**11.50**	**0.00**	**0%**	**90%**	**1.15**	**1.44**	**4.08**	**2.04**	**1.33**	**1.81**	**0.250**	**5.104**	**2.552**	**1.659**	**2.31**	**4.08**	**2.04**	**1.33**	**1.81**
Reach 12 - Bayou Folse: RKM 7.40 to Raceland Canal	**4.500**	**1.800**	**1.755**	**2.00**	**10.056**	**2.70**	**2.70**	**22.24**	**0.00**	**0.00**	**10.06**	**0.00**	**0%**	**90%**	**1.01**	**1.26**	**3.28**	**1.31**	**1.28**	**1.68**	**0.250**	**4.101**	**1.640**	**1.599**	**1.89**	**3.28**	**1.31**	**1.28**	**1.68**
Reach 13 - Bayou Folse: Raceland Canal to RKM 2.32	**2.811**	**0.937**	**0.402**	**5.90**	**10.049**	**2.38**	**2.38**	**22.24**	**0.00**	**0.00**	**10.05**	**0.00**	**0%**	**90%**	**1.00**	**1.26**	**1.59**	**0.53**	**0.23**	**3.85**	**0.738**	**1.990**	**0.663**	**0.284**	**1.55**	**1.59**	**0.53**	**0.23**	**3.85**
Reach 14 - RKM 2.32 to Company Canal	**2.883**	**0.892**	**0.412**	**5.90**	**10.088**	**2.32**	**2.32**	**22.24**	**0.00**	**0.00**	**10.09**	**0.00**	**0%**	**90%**	**1.01**	**1.26**	**1.55**	**0.48**	**0.22**	**3.66**	**0.738**	**1.940**	**0.600**	**0.277**	**1.48**	**1.55**	**0.48**	**0.22**	**3.66**
Sub-Total										0.00	134.65	0.00			13.47	16.83	24.74	11.90	6.43	38.06		30.93	14.88	8.04	20.28	**24.74**	**11.90**	**6.43**	**38.06**

Winter TMDL Calculations for Point Source loads:

BAYOU FOLSE (SUBSEGMENT 12302)

Input data into the shaded cells.

Point Source Loading Calculations

Pt. Source / Facility Description and Reach #	Receiving Stream	Included in the Projection Model (Yes/No)	Anticipated/ design flow (cms)	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)**	**Reserve/ MOS (kg/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	I + M + P
Lafourche SD#1 (Country Club Subdivision)	**Bayou Cutoff**	**Yes**	**0.00789**	**0.00986**	**10.0**	**10.0**	**20%**	**23.0**	**20**	**16**	**4**	**43.0**	**37**	**29**	**7**	**56**	**45**	**11**
DUGAS DITCH	**Bayou Cutoff**	**Yes**	**0.00680**	**0.00850**	**30.0**	**15.0**	**20%**	**69.0**	**51**	**41**	**10**	**64.5**	**47**	**38**	**9**	**98**	**78**	**20**
Grand Marnier Subdivison STP	**Bayou Cutoff**	**Yes**	**0.00370**	**0.00462**	**10.0**	**10.0**	**20%**	**23.0**	**9**	**7**	**2**	**43.0**	**17**	**14**	**3**	**26**	**21**	**5**
THOROUGHBRED DITCH	**Bayou Cutoff**	**Yes**	**0.00220**	**0.00275**	**10.0**	**10.0**	**20%**	**23.0**	**5**	**4**	**1**	**43.0**	**10**	**8**	**2**	**16**	**13**	**3**
SUB-TOTAL Loads									**84.91**	**67.93**	**16.98**		**111.38**	**89.11**	**22.28**	**196.29**	**157.04**	**39.26**

(1) - Load(kg/day) = 86.4 x Ultimate Conc.(mg/l) x Modeled Flow(cms)
(2) - [UCBOD conc. = CBOD5(mg/l) x 2.3] and [UNBOD conc. = NH3N(mg/l) x 4.3]

Winter TMDL calculations and Projection model calculations for Headwater / Tributary loads:

BAYOU FOLSE (SUBSEGMENT 12302)

Shaded cells are input values for calculations.	ARGIN OF SAFETY (MOS) (%) =
Values to be used in the projection models.	If modeling the nitrogen series, be s

Headwater / Tributary Load Determinations

Headwater / Tributary Description and Reach #	FROM CALIBRATION				BACKGROUND VALUES					Reduced Man-Made Loads			PROJECTION VALUES						
	Seasonal Critical flow (cms)	UCBOD1 (mg O_2/L)	UCBOD2 (mg O_2/L)	UNBOD (mg O_2/L)	Background UCBOD1 conc. (mg O_2/L)	Background UCBOD2 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 UCBOD2 load (kg O_2/day)	Reduced UNBOD load (kg O_2/day)	Projection UCBOD1 input conc. (mg O_2/L)	Projection UCBOD2 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 CBOD2 LA (kg O_2/day)**	**Total NBOD LA (kg O_2/day)**
Headwater Bayou Cutoff	**0.33430**	**5.92**	**4.23**	**2.43**	**0.00**	**0.00**	**0.00**	**0%**	**90%**	**17.10**	**12.22**	**7.02**	**0.74**	**0.53**	**0.30**	**9.08**	**17.10**	**12.22**	**7.02**
Arpent Canal	**0.02830**	**2.00**	**1.00**	**0.50**	**0.00**	**0.00**	**0.00**	**0%**	**90%**	**0.49**	**0.24**	**0.12**	**0.25**	**0.13**	**0.06**	**0.21**	**0.49**	**0.24**	**0.12**
SUB-TOTAL TMDL LOADING										**18**	**12**	**7.14**				**9.30**	**17.59**	**12.46**	**7.14**

Appendix F – Survey Data Measurements and Analysis Results

Appendix F1 – Water Quality Data

Bayou Folse/Bayou Cutoff 120302 Lab Summary

SITE ID NUMBER	Date	Chloride, Ion Chromatograph	Sulfate	Hardness	Alkalinity	pH	Specific Conductance	TOC	TP	TDS	Nitrate+Nitrite Nitrogen	TKN	Ammonia-Nitrogen	Color	Turbidity	TSS	Chl A
AC-01	30-Jun-04	11.4	4.1	104	88	7.9	218	6.8	0.86	354	0.37	2.6	ND	110	450	160	
AC-02	30-Jun-04	24.8	20	134	118	7.9	333	18.8	0.43	335	0.13	1.54	0.28	110	190	82	
BCUT-01	30-Jun-04	32.4	12.4	173	168	8.2	444	8.3	0.68	320	0.34	1.02	0.3	110	50	43	
BCUT-02	30-Jun-04	7.8	6.7	96.2	88.8	7.8	210	8.6	0.51	198	0.31	1.06	0.22	110	120	56	
BCUT-03	30-Jun-04	6.8	4.4	90.7	75.4	7.7	177	8	0.77	162	0.34	1.64	0.24	110	310	174	3.2
BCUT-04	30-Jun-04	10.3	20.4	117	95.9	7.8	254	12.6	0.48	230	0.19	1.39	0.32	110	100	56	
BCUT-07	30-Jun-04	8.5	7.4	88.9	78.9	7.7	197	12.5	0.34	177	0.14	1.29	0.27	90	30	23.5	
BFOL-01	30-Jun-04	16.9	10.3	91.8	83.1	7.8	229	12.7	0.26	162	0.07	1.26	0.15	90	12	10	
BFOL-02	30-Jun-04	8.7	8.1	91.6	83.6	7.7	206	11.7	0.34	165	ND	1.47	0.22	110	33	14	
BFOL-03	30-Jun-04	8.8	6.1	95.7	91.5	7.7	215	10.6	0.32	173	0.17	1.31	0.22	110	45	18	19.2
CC-01	30-Jun-04	13.3	10.4	89.7	77.4	7.8	212	13	0.19	154	ND	1.64	ND	110	20	19	
CC02	30-Jun-04		8.8														
CC-02	30-Jun-04	13.5		80.2	72.5	7.8	199	12.5	0.2	147	ND	1.93	ND	110	22	27	108

Site_Number	Lab_ID	Analysis_Name	Result	Units
BCUT-01	AG16571	TSS	43.0	ppm
BCUT-01	AG16571	TDS	320	ppm
BCUT-01	AG16571	Alkalinity	168	ppm
BCUT-01	AG16571	Turbidity	50	NTU
BCUT-01	AG16571	Specific Conductance	444	umhos/cm
BCUT-01	AG16571	True Color	110	PCU
BCUT-01	AG16571	Chloride, Ion Chromatograph	32.4	ppm
BCUT-01	AG16571	Sulfate	12.4	ppm
BCUT-01	AG16572	Hardness	173	ppm
BCUT-01	AG16572	Nitrate+Nitrite Nitrogen	0.34	ppm
BCUT-01	AG16572	TP	0.68	ppm
BCUT-01	AG16572	TKN	1.02	ppm
BCUT-01	AG16572	Ammonia-Nitrogen	0.30	ppm
BCUT-01	AG16573	TOC	8.3	ppm
BCUT-01	AG16574	pH, Ultimate BOD survey	8.2	pH units
BCUT-01	AG16574	TOC (60 Day BOD)	12.7	ppm
BCUT-01	AG16574	TKN (60 Day BOD)	0.75	ppm
BCUT-01	AG16574	NO2NO3 - Initial Reading	0.25	ppm
BCUT-01	AG16574	NO2NO3 - Reading 1	0.25	ppm
BCUT-01	AG16574	NO2NO3 - Reading 2	0.26	ppm
BCUT-01	AG16574	NO2NO3 - Reading 3	0.28	ppm
BCUT-01	AG16574	NO2NO3 - Reading 4	0.33	ppm
BCUT-01	AG16574	NO2NO3 - Reading 5	0.43	ppm
BCUT-01	AG16574	NO2NO3 - Reading 6	0.48	ppm
BCUT-01	AG16574	NO2NO3 - Reading 7	0.61	ppm
BCUT-01	AG16574	NO2NO3 - Reading 8	0.69	ppm
BCUT-01	AG16574	NO2NO3 - Reading 9	0.79	ppm
BCUT-01	AG16574	NO2NO3 - Reading 10	0.74	ppm
BCUT-01	AG16574	NO2NO3 - Final	0.75	ppm
BCUT-01	AG16574	Non-Filtered BOD 60 - Reading 1	0.6	ppm
BCUT-01	AG16574	Non-Filtered BOD 60 - Reading 2	2.1	ppm
BCUT-01	AG16574	Non-Filtered BOD 60 - Reading 3	3.0	ppm
BCUT-01	AG16574	Non-Filtered BOD 60 - Reading 4	4.1	ppm
BCUT-01	AG16574	Non-Filtered BOD 60 - Reading 5	5.0	ppm
BCUT-01	AG16574	Non-Filtered BOD 60 - Reading 6	6.1	ppm

BCUT-01	AG16574	Non-Filtered BOD 60 - Reading 7	7.3	ppm
BCUT-01	AG16574	Non-Filtered BOD 60 - Reading 8	8.7	ppm
BCUT-01	AG16574	Non-Filtered BOD 60 - Reading 9	9.6	ppm
BCUT-01	AG16574	Non-Filtered BOD 60 - Reading 10	10.5	ppm
BCUT-01	AG16574	Non-Filtered BOD 60 - Final	11.3	ppm
BCUT-02	AG16575	TSS	56.0	ppm
BCUT-02	AG16575	TDS	198	ppm
BCUT-02	AG16575	Alkalinity	88.8	ppm
BCUT-02	AG16575	Turbidity	120	NTU
BCUT-02	AG16575	Specific Conductance	210	umhos/cm
BCUT-02	AG16575	True Color	110	PCU
BCUT-02	AG16575	Chloride, Ion Chromatograph	7.8	ppm
BCUT-02	AG16575	Sulfate	6.7	ppm
BCUT-02	AG16576	Hardness	96.2	ppm
BCUT-02	AG16576	Nitrate+Nitrite Nitrogen	0.31	ppm
BCUT-02	AG16576	TP	0.51	ppm
BCUT-02	AG16576	TKN	1.06	ppm
BCUT-02	AG16576	Ammonia-Nitrogen	0.22	ppm
BCUT-02	AG16577	TOC	8.6	ppm
BCUT-02	AG16578	pH, Ultimate BOD survey	7.8	pH units
BCUT-02	AG16578	TOC (60 Day BOD)	10.8	ppm
BCUT-02	AG16578	TKN (60 Day BOD)	0.82	ppm
BCUT-02	AG16578	NO2NO3 - Initial Reading	0.23	ppm
BCUT-02	AG16578	NO2NO3 - Reading 1	0.23	ppm
BCUT-02	AG16578	NO2NO3 - Reading 2	0.25	ppm
BCUT-02	AG16578	NO2NO3 - Reading 3	0.30	ppm
BCUT-02	AG16578	NO2NO3 - Reading 4	0.37	ppm
BCUT-02	AG16578	NO2NO3 - Reading 5	0.51	ppm
BCUT-02	AG16578	NO2NO3 - Reading 6	0.59	ppm
BCUT-02	AG16578	NO2NO3 - Reading 7	0.67	ppm
BCUT-02	AG16578	NO2NO3 - Reading 8	0.74	ppm
BCUT-02	AG16578	NO2NO3 - Reading 9	0.83	ppm
BCUT-02	AG16578	NO2NO3 - Reading 10	0.81	ppm
BCUT-02	AG16578	NO2NO3 - Final	0.83	ppm
BCUT-02	AG16578	Non-Filtered BOD 60 - Reading 1	1.0	ppm
BCUT-02	AG16578	Non-Filtered BOD 60 - Reading 2	2.9	ppm
BCUT-02	AG16578	Non-Filtered BOD 60 - Reading 3	4.0	ppm

BCUT-02	AG16578	Non-Filtered BOD 60 - Reading 4	5.4	ppm
BCUT-02	AG16578	Non-Filtered BOD 60 - Reading 5	6.4	ppm
BCUT-02	AG16578	Non-Filtered BOD 60 - Reading 6	7.5	ppm
BCUT-02	AG16578	Non-Filtered BOD 60 - Reading 7	8.7	ppm
BCUT-02	AG16578	Non-Filtered BOD 60 - Reading 8	10.0	ppm
BCUT-02	AG16578	Non-Filtered BOD 60 - Reading 9	11.0	ppm
BCUT-02	AG16578	Non-Filtered BOD 60 - Reading 10	11.8	ppm
BCUT-02	AG16578	Non-Filtered BOD 60 - Final	12.5	ppm
BCUT-03	AG16579	TSS	174	ppm
BCUT-03	AG16579	TDS	162	ppm
BCUT-03	AG16579	Alkalinity	75.4	ppm
BCUT-03	AG16579	Turbidity	310	NTU
BCUT-03	AG16579	Specific Conductance	177	umhos/cm
BCUT-03	AG16579	True Color	110	PCU
BCUT-03	AG16579	Chloride, Ion Chromatograph	6.8	ppm
BCUT-03	AG16579	Sulfate	4.4	ppm
BCUT-03	AG16580	Hardness	90.7	ppm
BCUT-03	AG16580	Nitrate+Nitrite Nitrogen	0.34	ppm
BCUT-03	AG16580	TP	0.77	ppm
BCUT-03	AG16580	TKN	1.64	ppm
BCUT-03	AG16580	Ammonia-Nitrogen	0.24	ppm
BCUT-03	AG16581	TOC	8.0	ppm
BCUT-03	AG16582	pH, Ultimate BOD survey	7.7	pH units
BCUT-03	AG16582	TOC (60 Day BOD)	11.6	ppm
BCUT-03	AG16582	TKN (60 Day BOD)	1.09	ppm
BCUT-03	AG16582	NO2NO3 - Initial Reading	0.25	ppm
BCUT-03	AG16582	NO2NO3 - Reading 1	0.27	ppm
BCUT-03	AG16582	NO2NO3 - Reading 2	0.29	ppm
BCUT-03	AG16582	NO2NO3 - Reading 3	0.35	ppm
BCUT-03	AG16582	NO2NO3 - Reading 4	0.46	ppm
BCUT-03	AG16582	NO2NO3 - Reading 5	0.60	ppm
BCUT-03	AG16582	NO2NO3 - Reading 6	0.64	ppm
BCUT-03	AG16582	NO2NO3 - Reading 7	0.74	ppm
BCUT-03	AG16582	NO2NO3 - Reading 8	0.79	ppm
BCUT-03	AG16582	NO2NO3 - Reading 9	0.89	ppm
BCUT-03	AG16582	NO2NO3 - Reading 10	0.92	ppm
BCUT-03	AG16582	NO2NO3 - Final	0.88	ppm

BCUT-03	AG16582	Non-Filtered BOD 60 - Reading 1	0.7	ppm
BCUT-03	AG16582	Non-Filtered BOD 60 - Reading 2	2.5	ppm
BCUT-03	AG16582	Non-Filtered BOD 60 - Reading 3	3.8	ppm
BCUT-03	AG16582	Non-Filtered BOD 60 - Reading 4	5.2	ppm
BCUT-03	AG16582	Non-Filtered BOD 60 - Reading 5	6.3	ppm
BCUT-03	AG16582	Non-Filtered BOD 60 - Reading 6	7.2	ppm
BCUT-03	AG16582	Non-Filtered BOD 60 - Reading 7	8.3	ppm
BCUT-03	AG16582	Non-Filtered BOD 60 - Reading 8	9.7	ppm
BCUT-03	AG16582	Non-Filtered BOD 60 - Reading 9	10.7	ppm
BCUT-03	AG16582	Non-Filtered BOD 60 - Reading 10	11.6	ppm
BCUT-03	AG16582	Non-Filtered BOD 60 - Final	12.5	ppm
BCUT-03	AG16583	Chlorophyll A (raw)	48	ug/L
BCUT-03	AG16583	Volume of sample, Chlorophyll A (raw)	150	ml
BCUT-03	AG16583	Chlorophyll A (calculated)	3.2	ug/L
BCUT-04	AG16584	TSS	56.0	ppm
BCUT-04	AG16584	TDS	230	ppm
BCUT-04	AG16584	Alkalinity	95.9	ppm
BCUT-04	AG16584	Turbidity	100	NTU
BCUT-04	AG16584	Specific Conductance	254	umhos/cm
BCUT-04	AG16584	True Color	110	PCU
BCUT-04	AG16584	Chloride, Ion Chromatograph	10.3	ppm
BCUT-04	AG16584	Sulfate	20.4	ppm
BCUT-04	AG16585	Hardness	117	ppm
BCUT-04	AG16585	Nitrate+Nitrite Nitrogen	0.19	ppm
BCUT-04	AG16585	TP	0.48	ppm
BCUT-04	AG16585	TKN	1.39	ppm
BCUT-04	AG16585	Ammonia-Nitrogen	0.32	ppm
BCUT-04	AG16586	TOC	12.6	ppm
BCUT-04	AG16587	pH, Ultimate BOD survey	7.8	pH units
BCUT-04	AG16587	TOC (60 Day BOD)	15.2	ppm
BCUT-04	AG16587	TKN (60 Day BOD)	0.88	ppm
BCUT-04	AG16587	NO2NO3 - Initial Reading	0.07	ppm
BCUT-04	AG16587	NO2NO3 - Reading 1	0.07	ppm
BCUT-04	AG16587	NO2NO3 - Reading 2	0.08	ppm
BCUT-04	AG16587	NO2NO3 - Reading 3	0.11	ppm
BCUT-04	AG16587	NO2NO3 - Reading 4	0.20	ppm
BCUT-04	AG16587	NO2NO3 - Reading 5	0.28	ppm

BCUT-04	AG16587	NO2NO3 - Reading 6	0.33	ppm
BCUT-04	AG16587	NO2NO3 - Reading 7	0.39	ppm
BCUT-04	AG16587	NO2NO3 - Reading 8	0.44	ppm
BCUT-04	AG16587	NO2NO3 - Reading 9	0.47	ppm
BCUT-04	AG16587	NO2NO3 - Reading 10	0.48	ppm
BCUT-04	AG16587	NO2NO3 - Final	0.48	ppm
BCUT-04	AG16587	Non-Filtered BOD 60 - Reading 1	0.5	ppm
BCUT-04	AG16587	Non-Filtered BOD 60 - Reading 2	1.9	ppm
BCUT-04	AG16587	Non-Filtered BOD 60 - Reading 3	2.9	ppm
BCUT-04	AG16587	Non-Filtered BOD 60 - Reading 4	4.2	ppm
BCUT-04	AG16587	Non-Filtered BOD 60 - Reading 5	5.0	ppm
BCUT-04	AG16587	Non-Filtered BOD 60 - Reading 6	5.9	ppm
BCUT-04	AG16587	Non-Filtered BOD 60 - Reading 7	6.9	ppm
BCUT-04	AG16587	Non-Filtered BOD 60 - Reading 8	8.2	ppm
BCUT-04	AG16587	Non-Filtered BOD 60 - Reading 9	9.3	ppm
BCUT-04	AG16587	Non-Filtered BOD 60 - Reading 10	10.2	ppm
BCUT-04	AG16587	Non-Filtered BOD 60 - Final	11.1	ppm
BFOL-03	AG16588	TSS	18.0	ppm
BFOL-03	AG16588	TDS	173	ppm
BFOL-03	AG16588	Alkalinity	91.5	ppm
BFOL-03	AG16588	Turbidity	45	NTU
BFOL-03	AG16588	Specific Conductance	215	umhos/cm
BFOL-03	AG16588	True Color	110	PCU
BFOL-03	AG16588	Chloride, Ion Chromatograph	8.8	ppm
BFOL-03	AG16588	Sulfate	6.1	ppm
BFOL-03	AG16589	Hardness	95.7	ppm
BFOL-03	AG16589	Nitrate+Nitrite Nitrogen	0.17	ppm
BFOL-03	AG16589	TP	0.32	ppm
BFOL-03	AG16589	TKN	1.31	ppm
BFOL-03	AG16589	Ammonia-Nitrogen	0.22	ppm
BFOL-03	AG16590	TOC	10.6	ppm
BFOL-03	AG16591	pH, Ultimate BOD survey	7.7	pH units
BFOL-03	AG16591	TOC (60 Day BOD)	11.2	ppm
BFOL-03	AG16591	TKN (60 Day BOD)	0.51	ppm
BFOL-03	AG16591	NO2NO3 - Initial Reading	0.09	ppm
BFOL-03	AG16591	NO2NO3 - Reading 1	0.10	ppm
BFOL-03	AG16591	NO2NO3 - Reading 2	0.10	ppm

BFOL-03	AG16591	NO2NO3 - Reading 3	0.13	ppm
BFOL-03	AG16591	NO2NO3 - Reading 4	0.18	ppm
BFOL-03	AG16591	NO2NO3 - Reading 5	0.30	ppm
BFOL-03	AG16591	NO2NO3 - Reading 6	0.31	ppm
BFOL-03	AG16591	NO2NO3 - Reading 7	0.38	ppm
BFOL-03	AG16591	NO2NO3 - Reading 8	0.44	ppm
BFOL-03	AG16591	NO2NO3 - Reading 9	0.49	ppm
BFOL-03	AG16591	NO2NO3 - Reading 10	0.48	ppm
BFOL-03	AG16591	NO2NO3 - Final	0.44	ppm
BFOL-03	AG16591	Non-Filtered BOD 60 - Reading 1	0.4	ppm
BFOL-03	AG16591	Non-Filtered BOD 60 - Reading 2	1.5	ppm
BFOL-03	AG16591	Non-Filtered BOD 60 - Reading 3	2.2	ppm
BFOL-03	AG16591	Non-Filtered BOD 60 - Reading 4	3.4	ppm
BFOL-03	AG16591	Non-Filtered BOD 60 - Reading 5	4.2	ppm
BFOL-03	AG16591	Non-Filtered BOD 60 - Reading 6	5.0	ppm
BFOL-03	AG16591	Non-Filtered BOD 60 - Reading 7	5.9	ppm
BFOL-03	AG16591	Non-Filtered BOD 60 - Reading 8	6.9	ppm
BFOL-03	AG16591	Non-Filtered BOD 60 - Reading 9	7.9	ppm
BFOL-03	AG16591	Non-Filtered BOD 60 - Reading 10	8.7	ppm
BFOL-03	AG16591	Non-Filtered BOD 60 - Final	9.4	ppm
BFOL-03	AG16592	Chlorophyll A (calculated)	19.2	ug/L
BFOL-03	AG16592	Chlorophyll A (raw)	480	ug/L
BFOL-03	AG16592	Volume of sample, Chlorophyll A (raw)	250	ml
BFOL-02	AG16593	TSS	14.0	ppm
BFOL-02	AG16593	TDS	165	ppm
BFOL-02	AG16593	Alkalinity	83.6	ppm
BFOL-02	AG16593	Turbidity	33	NTU
BFOL-02	AG16593	Specific Conductance	206	umhos/cm
BFOL-02	AG16593	True Color	110	PCU
BFOL-02	AG16593	Chloride, Ion Chromatograph	8.7	ppm
BFOL-02	AG16593	Sulfate	8.1	ppm
BFOL-02	AG16594	Hardness	91.6	ppm
BFOL-02	AG16594	Nitrate+Nitrite Nitrogen	ND	ppm
BFOL-02	AG16594	TP	0.34	ppm
BFOL-02	AG16594	TKN	1.47	ppm
BFOL-02	AG16594	Ammonia-Nitrogen	0.22	ppm
BFOL-02	AG16595	TOC	11.7	ppm

BFOL-02	AG16596	pH, Ultimate BOD survey	7.7	pH units
BFOL-02	AG16596	TOC (60 Day BOD)	12.6	ppm
BFOL-02	AG16596	TKN (60 Day BOD)	0.62	ppm
BFOL-02	AG16596	NO2NO3 - Initial Reading	0.08	ppm
BFOL-02	AG16596	NO2NO3 - Reading 1	0.08	ppm
BFOL-02	AG16596	NO2NO3 - Reading 2	0.09	ppm
BFOL-02	AG16596	NO2NO3 - Reading 3	0.09	ppm
BFOL-02	AG16596	NO2NO3 - Reading 4	0.11	ppm
BFOL-02	AG16596	NO2NO3 - Reading 5	0.25	ppm
BFOL-02	AG16596	NO2NO3 - Reading 6	0.38	ppm
BFOL-02	AG16596	NO2NO3 - Reading 7	0.47	ppm
BFOL-02	AG16596	NO2NO3 - Reading 8	0.54	ppm
BFOL-02	AG16596	NO2NO3 - Reading 9	0.66	ppm
BFOL-02	AG16596	NO2NO3 - Reading 10	0.61	ppm
BFOL-02	AG16596	NO2NO3 - Final	0.62	ppm
BFOL-02	AG16596	Non-Filtered BOD 60 - Reading 1	1.1	ppm
BFOL-02	AG16596	Non-Filtered BOD 60 - Reading 2	3.6	ppm
BFOL-02	AG16596	Non-Filtered BOD 60 - Reading 3	4.5	ppm
BFOL-02	AG16596	Non-Filtered BOD 60 - Reading 4	5.7	ppm
BFOL-02	AG16596	Non-Filtered BOD 60 - Reading 5	7.1	ppm
BFOL-02	AG16596	Non-Filtered BOD 60 - Reading 6	8.5	ppm
BFOL-02	AG16596	Non-Filtered BOD 60 - Reading 7	9.7	ppm
BFOL-02	AG16596	Non-Filtered BOD 60 - Reading 8	11.4	ppm
BFOL-02	AG16596	Non-Filtered BOD 60 - Reading 9	12.7	ppm
BFOL-02	AG16596	Non-Filtered BOD 60 - Reading 10	13.6	ppm
BFOL-02	AG16596	Non-Filtered BOD 60 - Final	14.4	ppm
BFOL-01	AG16597	TSS	10.0	ppm
BFOL-01	AG16597	TDS	162	ppm
BFOL-01	AG16597	Alkalinity	83.1	ppm
BFOL-01	AG16597	Turbidity	12	NTU
BFOL-01	AG16597	Specific Conductance	229	umhos/cm
BFOL-01	AG16597	True Color	90	PCU
BFOL-01	AG16597	Chloride, Ion Chromatograph	16.9	ppm
BFOL-01	AG16597	Sulfate	10.3	ppm
BFOL-01	AG16598	Hardness	91.8	ppm
BFOL-01	AG16598	Nitrate+Nitrite Nitrogen	0.07	ppm
BFOL-01	AG16598	TP	0.26	ppm

BFOL-01	AG16598	TKN	1.26	ppm
BFOL-01	AG16598	Ammonia-Nitrogen	0.15	ppm
BFOL-01	AG16599	TOC	12.7	ppm
BFOL-01	AG16600	pH, Ultimate BOD survey	7.8	pH units
BFOL-01	AG16600	TOC (60 Day BOD)	12.0	ppm
BFOL-01	AG16600	TKN (60 Day BOD)	0.69	ppm
BFOL-01	AG16600	NO2NO3 - Initial Reading	ND	ppm
BFOL-01	AG16600	NO2NO3 - Reading 1	ND	ppm
BFOL-01	AG16600	NO2NO3 - Reading 2	ND	ppm
BFOL-01	AG16600	NO2NO3 - Reading 3	ND	ppm
BFOL-01	AG16600	NO2NO3 - Reading 4	ND	ppm
BFOL-01	AG16600	NO2NO3 - Reading 5	0.12	ppm
BFOL-01	AG16600	NO2NO3 - Reading 6	0.26	ppm
BFOL-01	AG16600	NO2NO3 - Reading 7	0.32	ppm
BFOL-01	AG16600	NO2NO3 - Reading 8	0.37	ppm
BFOL-01	AG16600	NO2NO3 - Reading 9	0.46	ppm
BFOL-01	AG16600	NO2NO3 - Reading 10	0.43	ppm
BFOL-01	AG16600	NO2NO3 - Final	0.42	ppm
BFOL-01	AG16600	Non-Filtered BOD 60 - Reading 1	0.7	ppm
BFOL-01	AG16600	Non-Filtered BOD 60 - Reading 2	2.7	ppm
BFOL-01	AG16600	Non-Filtered BOD 60 - Reading 3	3.7	ppm
BFOL-01	AG16600	Non-Filtered BOD 60 - Reading 4	4.6	ppm
BFOL-01	AG16600	Non-Filtered BOD 60 - Reading 5	5.7	ppm
BFOL-01	AG16600	Non-Filtered BOD 60 - Reading 6	7.1	ppm
BFOL-01	AG16600	Non-Filtered BOD 60 - Reading 7	8.2	ppm
BFOL-01	AG16600	Non-Filtered BOD 60 - Reading 8	9.5	ppm
BFOL-01	AG16600	Non-Filtered BOD 60 - Reading 9	10.6	ppm
BFOL-01	AG16600	Non-Filtered BOD 60 - Reading 10	11.4	ppm
BFOL-01	AG16600	Non-Filtered BOD 60 - Final	12.1	ppm
CC-01	AG16601	TSS	19.0	ppm
CC-01	AG16601	TDS	154	ppm
CC-01	AG16601	Alkalinity	77.4	ppm
CC-01	AG16601	Turbidity	20	NTU
CC-01	AG16601	Specific Conductance	212	umhos/cm
CC-01	AG16601	True Color	110	PCU
CC-01	AG16601	Chloride, Ion Chromatograph	13.3	ppm
CC-01	AG16601	Sulfate	10.4	ppm

CC-01	AG16602	Hardness	89.7	ppm
CC-01	AG16602	Nitrate+Nitrite Nitrogen	ND	ppm
CC-01	AG16602	TP	0.19	ppm
CC-01	AG16602	TKN	1.64	ppm
CC-01	AG16602	Ammonia-Nitrogen	ND	ppm
CC-01	AG16603	TOC	13.0	ppm
CC-01	AG16604	pH, Ultimate BOD survey	7.8	pH units
CC-01	AG16604	TOC (60 Day BOD)	12.4	ppm
CC-01	AG16604	TKN (60 Day BOD)	0.56	ppm
CC-01	AG16604	NO2NO3 - Initial Reading	ND	ppm
CC-01	AG16604	NO2NO3 - Reading 1	ND	ppm
CC-01	AG16604	NO2NO3 - Reading 2	ND	ppm
CC-01	AG16604	NO2NO3 - Reading 3	ND	ppm
CC-01	AG16604	NO2NO3 - Reading 4	ND	ppm
CC-01	AG16604	NO2NO3 - Reading 5	0.17	ppm
CC-01	AG16604	NO2NO3 - Reading 6	0.34	ppm
CC-01	AG16604	NO2NO3 - Reading 7	0.48	ppm
CC-01	AG16604	NO2NO3 - Reading 8	0.55	ppm
CC-01	AG16604	NO2NO3 - Reading 9	0.71	ppm
CC-01	AG16604	NO2NO3 - Reading 10	0.68	ppm
CC-01	AG16604	NO2NO3 - Final	0.71	ppm
CC-01	AG16604	Non-Filtered BOD 60 - Reading 1	1.4	ppm
CC-01	AG16604	Non-Filtered BOD 60 - Reading 2	5.0	ppm
CC-01	AG16604	Non-Filtered BOD 60 - Reading 3	6.9	ppm
CC-01	AG16604	Non-Filtered BOD 60 - Reading 4	8.7	ppm
CC-01	AG16604	Non-Filtered BOD 60 - Reading 5	10.8	ppm
CC-01	AG16604	Non-Filtered BOD 60 - Reading 6	12.9	ppm
CC-01	AG16604	Non-Filtered BOD 60 - Reading 7	14.6	ppm
CC-01	AG16604	Non-Filtered BOD 60 - Reading 8	16.4	ppm
CC-01	AG16604	Non-Filtered BOD 60 - Reading 9	18.0	ppm
CC-01	AG16604	Non-Filtered BOD 60 - Reading 10	19.0	ppm
CC-01	AG16604	Non-Filtered BOD 60 - Final	20.2	ppm
CC-02	AG16605	TSS	27.0	ppm
CC-02	AG16605	TDS	147	ppm
CC-02	AG16605	Alkalinity	72.5	ppm
CC-02	AG16605	Turbidity	22	NTU
CC-02	AG16605	Specific Conductance	199	umhos/cm

CC-02	AG16605	True Color	110	PCU
CC-02	AG16605	Chloride, Ion Chromatograph	13.5	ppm
CC-02	AG16605	Sulfate	8.8	ppm
CC-02	AG16606	Hardness	80.2	ppm
CC-02	AG16606	Nitrate+Nitrite Nitrogen	ND	ppm
CC-02	AG16606	TP	0.20	ppm
CC-02	AG16606	TKN	1.93	ppm
CC-02	AG16606	Ammonia-Nitrogen	ND	ppm
CC-02	AG16607	TOC	12.5	ppm
CC-02	AG16608	pH, Ultimate BOD survey	7.8	pH units
CC-02	AG16608	TOC (60 Day BOD)	12.3	ppm
CC-02	AG16608	TKN (60 Day BOD)	0.93	ppm
CC-02	AG16608	NO2NO3 - Initial Reading	ND	ppm
CC-02	AG16608	NO2NO3 - Reading 1	ND	ppm
CC-02	AG16608	NO2NO3 - Reading 2	ND	ppm
CC-02	AG16608	NO2NO3 - Reading 3	ND	ppm
CC-02	AG16608	NO2NO3 - Reading 4	ND	ppm
CC-02	AG16608	NO2NO3 - Reading 5	0.30	ppm
CC-02	AG16608	NO2NO3 - Reading 6	0.43	ppm
CC-02	AG16608	NO2NO3 - Reading 7	0.65	ppm
CC-02	AG16608	NO2NO3 - Reading 8	0.75	ppm
CC-02	AG16608	NO2NO3 - Reading 9	0.96	ppm
CC-02	AG16608	NO2NO3 - Reading 10	0.93	ppm
CC-02	AG16608	NO2NO3 - Final	0.94	ppm
CC-02	AG16608	Non-Filtered BOD 60 - Reading 1	1.4	ppm
CC-02	AG16608	Non-Filtered BOD 60 - Reading 2	5.5	ppm
CC-02	AG16608	Non-Filtered BOD 60 - Reading 3	8.2	ppm
CC-02	AG16608	Non-Filtered BOD 60 - Reading 4	11.0	ppm
CC-02	AG16608	Non-Filtered BOD 60 - Reading 5	13.8	ppm
CC-02	AG16608	Non-Filtered BOD 60 - Reading 6	16.0	ppm
CC-02	AG16608	Non-Filtered BOD 60 - Reading 7	18.4	ppm
CC-02	AG16608	Non-Filtered BOD 60 - Reading 8	20.4	ppm
CC-02	AG16608	Non-Filtered BOD 60 - Reading 9	22.0	ppm
CC-02	AG16608	Non-Filtered BOD 60 - Reading 10	23.1	ppm
CC-02	AG16608	Non-Filtered BOD 60 - Final	24.0	ppm
CC-02	AG16609	Chlorophyll A (calculated)	108	ug/L
CC-02	AG16609	Volume of sample, Chlorophyll A (raw)	250	ml

CC-02	AG16609	Chlorophyll A (raw)	2704	ug/L
CC-03	AG16610	TSS	ND	ppm
CC-03	AG16610	TDS	ND	ppm
CC-03	AG16610	Alkalinity	ND	ppm
CC-03	AG16610	Turbidity	ND	NTU
CC-03	AG16610	Specific Conductance	ND	umhos/cm
CC-03	AG16610	True Color	ND	PCU
CC-03	AG16610	Chloride, Ion Chromatograph	ND	ppm
CC-03	AG16610	Sulfate	ND	ppm
CC-03	AG16611	Hardness	ND	ppm
CC-03	AG16611	Nitrate+Nitrite Nitrogen	ND	ppm
CC-03	AG16611	TP	ND	ppm
CC-03	AG16611	TKN	ND	ppm
CC-03	AG16611	Ammonia-Nitrogen	ND	ppm
CC-03	AG16612	TOC	ND	ppm
CC-03	AG16613	pH, Ultimate BOD survey	6.3	pH units
CC-03	AG16613	TOC (60 Day BOD)	ND	ppm
CC-03	AG16613	TKN (60 Day BOD)	ND	ppm
CC-03	AG16613	NO2NO3 - Initial Reading	ND	ppm
CC-03	AG16613	NO2NO3 - Reading 1	ND	ppm
CC-03	AG16613	NO2NO3 - Reading 2	ND	ppm
CC-03	AG16613	NO2NO3 - Reading 3	ND	ppm
CC-03	AG16613	NO2NO3 - Reading 4	ND	ppm
CC-03	AG16613	NO2NO3 - Reading 5	ND	ppm
CC-03	AG16613	NO2NO3 - Reading 6	ND	ppm
CC-03	AG16613	NO2NO3 - Reading 7	ND	ppm
CC-03	AG16613	NO2NO3 - Reading 8	ND	ppm
CC-03	AG16613	NO2NO3 - Reading 9	ND	ppm
CC-03	AG16613	NO2NO3 - Reading 10	ND	ppm
CC-03	AG16613	NO2NO3 - Final	ND	ppm
CC-03	AG16613	Non-Filtered BOD 60 - Reading 1	0.0	ppm
CC-03	AG16613	Non-Filtered BOD 60 - Reading 2	0.0	ppm
CC-03	AG16613	Non-Filtered BOD 60 - Reading 3	0.0	ppm
CC-03	AG16613	Non-Filtered BOD 60 - Reading 4	0.2	ppm
CC-03	AG16613	Non-Filtered BOD 60 - Reading 5	0.1	ppm
CC-03	AG16613	Non-Filtered BOD 60 - Reading 6	0.1	ppm
CC-03	AG16613	Non-Filtered BOD 60 - Reading 7	0.3	ppm

CC-03	AG16613	Non-Filtered BOD 60 - Reading 8	0.1	ppm
CC-03	AG16613	Non-Filtered BOD 60 - Reading 9	0.1	ppm
CC-03	AG16613	Non-Filtered BOD 60 - Reading 10	0.1	ppm
CC-03	AG16613	Non-Filtered BOD 60 - Final	0.1	ppm
CC-03	AG16614	TSS	23.5	ppm
CC-03	AG16614	TDS	145	ppm
CC-03	AG16614	Alkalinity	69.5	ppm
CC-03	AG16614	Turbidity	20	NTU
CC-03	AG16614	Specific Conductance	196	umhos/cm
CC-03	AG16614	True Color	90	PCU
CC-03	AG16614	Chloride, Ion Chromatograph	16.7	ppm
CC-03	AG16614	Sulfate	6.9	ppm
CC-03	AG16615	Hardness	75.4	ppm
CC-03	AG16615	Nitrate+Nitrite Nitrogen	ND	ppm
CC-03	AG16615	TP	0.24	ppm
CC-03	AG16615	TKN	1.85	ppm
CC-03	AG16615	Ammonia-Nitrogen	ND	ppm
CC-03	AG16616	TOC	12.1	ppm
CC-03	AG16617	pH, Ultimate BOD survey	7.8	pH units
CC-03	AG16617	TOC (60 Day BOD)	10.6	ppm
CC-03	AG16617	TKN (60 Day BOD)	0.59	ppm
CC-03	AG16617	NO2NO3 - Initial Reading	ND	ppm
CC-03	AG16617	NO2NO3 - Reading 1	ND	ppm
CC-03	AG16617	NO2NO3 - Reading 2	ND	ppm
CC-03	AG16617	NO2NO3 - Reading 3	ND	ppm
CC-03	AG16617	NO2NO3 - Reading 4	ND	ppm
CC-03	AG16617	NO2NO3 - Reading 5	0.20	ppm
CC-03	AG16617	NO2NO3 - Reading 6	0.49	ppm
CC-03	AG16617	NO2NO3 - Reading 7	0.69	ppm
CC-03	AG16617	NO2NO3 - Reading 8	0.78	ppm
CC-03	AG16617	NO2NO3 - Reading 9	1.00	ppm
CC-03	AG16617	NO2NO3 - Reading 10	0.93	ppm
CC-03	AG16617	NO2NO3 - Final	0.94	ppm
CC-03	AG16617	Non-Filtered BOD 60 - Reading 1	1.5	ppm
CC-03	AG16617	Non-Filtered BOD 60 - Reading 2	5.7	ppm
CC-03	AG16617	Non-Filtered BOD 60 - Reading 3	8.6	ppm
CC-03	AG16617	Non-Filtered BOD 60 - Reading 4	11.0	ppm

CC-03	AG16617	Non-Filtered BOD 60 - Reading 5	13.5	ppm
CC-03	AG16617	Non-Filtered BOD 60 - Reading 6	16.1	ppm
CC-03	AG16617	Non-Filtered BOD 60 - Reading 7	18.4	ppm
CC-03	AG16617	Non-Filtered BOD 60 - Reading 8	20.4	ppm
CC-03	AG16617	Non-Filtered BOD 60 - Reading 9	22.1	ppm
CC-03	AG16617	Non-Filtered BOD 60 - Reading 10	23.1	ppm
CC-03	AG16617	Non-Filtered BOD 60 - Final	24.0	ppm
AC-01	AG16661	TSS	160	ppm
AC-01	AG16661	TDS	354	ppm
AC-01	AG16661	Alkalinity	88.0	ppm
AC-01	AG16661	Turbidity	450	NTU
AC-01	AG16661	Specific Conductance	218	umhos/cm
AC-01	AG16661	True Color	110	PCU
AC-01	AG16661	Chloride, Ion Chromatograph	11.4	ppm
AC-01	AG16661	Sulfate	4.1	ppm
AC-01	AG16662	Hardness	104	ppm
AC-01	AG16662	Nitrate+Nitrite Nitrogen	0.37	ppm
AC-01	AG16662	TP	0.86	ppm
AC-01	AG16662	TKN	2.60	ppm
AC-01	AG16662	Ammonia-Nitrogen	ND	ppm
AC-01	AG16663	TOC	6.8	ppm
AC-01	AG16664	pH, Ultimate BOD survey	7.9	pH units
AC-01	AG16664	TOC (60 Day BOD)	8.2	ppm
AC-01	AG16664	TKN (60 Day BOD)	0.66	ppm
AC-01	AG16664	NO2NO3 - Initial Reading	0.28	ppm
AC-01	AG16664	NO2NO3 - Reading 1	0.28	ppm
AC-01	AG16664	NO2NO3 - Reading 2	0.28	ppm
AC-01	AG16664	NO2NO3 - Reading 3	0.33	ppm
AC-01	AG16664	NO2NO3 - Reading 4	0.45	ppm
AC-01	AG16664	NO2NO3 - Reading 5	0.58	ppm
AC-01	AG16664	NO2NO3 - Reading 6	0.73	ppm
AC-01	AG16664	NO2NO3 - Reading 7	0.85	ppm
AC-01	AG16664	NO2NO3 - Reading 8	0.84	ppm
AC-01	AG16664	NO2NO3 - Reading 9	1.01	ppm
AC-01	AG16664	NO2NO3 - Reading 10	1.01	ppm
AC-01	AG16664	NO2NO3 - Final	1.00	ppm
AC-01	AG16664	Non-Filtered BOD 60 - Reading 1	0.8	ppm

AC-01	AG16664	Non-Filtered BOD 60 - Reading 2	2.2	ppm
AC-01	AG16664	Non-Filtered BOD 60 - Reading 3	3.2	ppm
AC-01	AG16664	Non-Filtered BOD 60 - Reading 4	4.3	ppm
AC-01	AG16664	Non-Filtered BOD 60 - Reading 5	5.6	ppm
AC-01	AG16664	Non-Filtered BOD 60 - Reading 6	7.0	ppm
AC-01	AG16664	Non-Filtered BOD 60 - Reading 7	8.2	ppm
AC-01	AG16664	Non-Filtered BOD 60 - Reading 8	9.2	ppm
AC-01	AG16664	Non-Filtered BOD 60 - Reading 9	10.2	ppm
AC-01	AG16664	Non-Filtered BOD 60 - Reading 10	10.9	ppm
AC-01	AG16664	Non-Filtered BOD 60 - Final	11.5	ppm
BCUT-07	AG16678	TSS	23.5	ppm
BCUT-07	AG16678	TDS	177	ppm
BCUT-07	AG16678	Alkalinity	78.9	ppm
BCUT-07	AG16678	Turbidity	30	NTU
BCUT-07	AG16678	Specific Conductance	197	umhos/cm
BCUT-07	AG16678	True Color	90	PCU
BCUT-07	AG16678	Chloride, Ion Chromatograph	8.5	ppm
BCUT-07	AG16678	Sulfate	7.4	ppm
BCUT-07	AG16679	Hardness	88.9	ppm
BCUT-07	AG16679	Nitrate+Nitrite Nitrogen	0.14	ppm
BCUT-07	AG16679	TP	0.34	ppm
BCUT-07	AG16679	TKN	1.29	ppm
BCUT-07	AG16679	Ammonia-Nitrogen	0.27	ppm
BCUT-07	AG16680	TOC	12.5	ppm
BCUT-07	AG16681	pH, Ultimate BOD survey	7.7	pH units
BCUT-07	AG16681	TOC (60 Day BOD)	12.8	ppm
BCUT-07	AG16681	TKN (60 Day BOD)	0.35	ppm
BCUT-07	AG16681	NO2NO3 - Initial Reading	0.07	ppm
BCUT-07	AG16681	NO2NO3 - Reading 1	0.08	ppm
BCUT-07	AG16681	NO2NO3 - Reading 2	0.08	ppm
BCUT-07	AG16681	NO2NO3 - Reading 3	0.09	ppm
BCUT-07	AG16681	NO2NO3 - Reading 4	0.10	ppm
BCUT-07	AG16681	NO2NO3 - Reading 5	0.21	ppm
BCUT-07	AG16681	NO2NO3 - Reading 6	0.35	ppm
BCUT-07	AG16681	NO2NO3 - Reading 7	0.40	ppm
BCUT-07	AG16681	NO2NO3 - Reading 8	0.47	ppm
BCUT-07	AG16681	NO2NO3 - Reading 9	0.57	ppm

BCUT-07	AG16681	NO2NO3 - Reading 10	0.54	ppm
BCUT-07	AG16681	NO2NO3 - Final	0.55	ppm
BCUT-07	AG16681	Non-Filtered BOD 60 - Reading 1	0.9	ppm
BCUT-07	AG16681	Non-Filtered BOD 60 - Reading 2	2.6	ppm
BCUT-07	AG16681	Non-Filtered BOD 60 - Reading 3	3.4	ppm
BCUT-07	AG16681	Non-Filtered BOD 60 - Reading 4	4.3	ppm
BCUT-07	AG16681	Non-Filtered BOD 60 - Reading 5	5.6	ppm
BCUT-07	AG16681	Non-Filtered BOD 60 - Reading 6	6.8	ppm
BCUT-07	AG16681	Non-Filtered BOD 60 - Reading 7	8.1	ppm
BCUT-07	AG16681	Non-Filtered BOD 60 - Reading 8	9.4	ppm
BCUT-07	AG16681	Non-Filtered BOD 60 - Reading 9	10.5	ppm
BCUT-07	AG16681	Non-Filtered BOD 60 - Reading 10	11.5	ppm
BCUT-07	AG16681	Non-Filtered BOD 60 - Final	12.3	ppm
AC-02	AG16710	TSS	82.0	ppm
AC-02	AG16710	TDS	335	ppm
AC-02	AG16710	Alkalinity	118	ppm
AC-02	AG16710	Turbidity	190	NTU
AC-02	AG16710	Specific Conductance	333	umhos/cm
AC-02	AG16710	True Color	110	PCU
AC-02	AG16710	Chloride, Ion Chromatograph	24.8	ppm
AC-02	AG16710	Sulfate	20.0	ppm
AC-02	AG16711	Hardness	134	ppm
AC-02	AG16711	Nitrate+Nitrite Nitrogen	0.13	ppm
AC-02	AG16711	TP	0.43	ppm
AC-02	AG16711	TKN	1.54	ppm
AC-02	AG16711	Ammonia-Nitrogen	0.28	ppm
AC-02	AG16712	TOC	18.8	ppm
AC-02	AG16713	pH, Ultimate BOD survey	7.9	pH units
AC-02	AG16713	TOC (60 Day BOD)	13.1	ppm
AC-02	AG16713	TKN (60 Day BOD)	1.76	ppm
AC-02	AG16713	NO2NO3 - Initial Reading	0.07	ppm
AC-02	AG16713	NO2NO3 - Reading 1	0.07	ppm
AC-02	AG16713	NO2NO3 - Reading 2	0.09	ppm
AC-02	AG16713	NO2NO3 - Reading 3	0.15	ppm
AC-02	AG16713	NO2NO3 - Reading 4	0.32	ppm
AC-02	AG16713	NO2NO3 - Reading 5	0.43	ppm
AC-02	AG16713	NO2NO3 - Reading 6	0.46	ppm

AC-02	AG16713	NO2NO3 - Reading 7	0.47	ppm
AC-02	AG16713	NO2NO3 - Reading 8	0.55	ppm
AC-02	AG16713	NO2NO3 - Reading 9	0.62	ppm
AC-02	AG16713	NO2NO3 - Reading 10	0.65	ppm
AC-02	AG16713	NO2NO3 - Final	0.66	ppm
AC-02	AG16713	Non-Filtered BOD 60 - Reading 1	0.5	ppm
AC-02	AG16713	Non-Filtered BOD 60 - Reading 2	2.0	ppm
AC-02	AG16713	Non-Filtered BOD 60 - Reading 3	3.3	ppm
AC-02	AG16713	Non-Filtered BOD 60 - Reading 4	4.8	ppm
AC-02	AG16713	Non-Filtered BOD 60 - Reading 5	5.7	ppm
AC-02	AG16713	Non-Filtered BOD 60 - Reading 6	6.7	ppm
AC-02	AG16713	Non-Filtered BOD 60 - Reading 7	7.9	ppm
AC-02	AG16713	Non-Filtered BOD 60 - Reading 8	9.0	ppm
AC-02	AG16713	Non-Filtered BOD 60 - Reading 9	10.2	ppm
AC-02	AG16713	Non-Filtered BOD 60 - Reading 10	11.1	ppm
AC-02	AG16713	Non-Filtered BOD 60 - Final	12.0	ppm

Appendix F2 – Cross Sections and Hydraulic Calculations

Bayou Folse/ Bayou Cutoff 120302

Field Data Summary -- Discharges and Cross Sections

Site #	River KM	Width (ft)	Width (m)	Depth (ft)	Depth (m)	Flow (cfs)	Flow (cms)
BCUT-01	33.22	34.00	10.36	2.12	0.65		
BCUT-02	30.68	50.00	15.24	3.37	1.03		
AC-01	0.85	25.00	7.62	0.78	0.24		
BCUT-03	27.394	68.00	20.73	4.03	1.23		
BCUT-04	22.662	83.00	25.30	4.34	1.32		
BCUT-06	15.681	81.00	24.69	4.72	1.44		
BCUT-07	0.172	84.78	25.84	6.85	2.09	14.782	0.4186
BFOL-03	13.69	86.00	26.21	5.08	1.55		
BFOL-02	6.448	135.00	41.15	5.21	1.59		
BFOL-01	0.62	103.00	31.39	3.35	1.02		

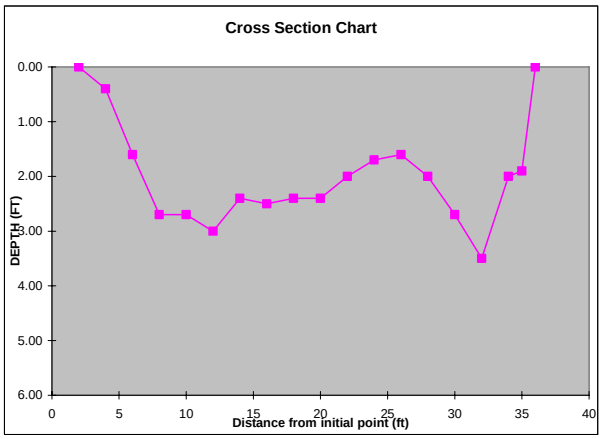
NOTE: AN ERROR IN THE WIDTH AND DEPTH OF BFOL-1 WAS MADE IN THE CALIBRATION AND SUBSEQUENT MODELING INPUT DATA SETS; AN EXTRA MODEL RUN SHOWED THAT THE CHANGE IN WIDTH AND DEPTH MADE NO DIFFERENCE IN THE MODELING RESULTS EXCEPT FOR THE WIDTH AND DEPTH CHARTS/OUTPUT. THIS WILL BE CORRECTED IF AND WHEN THE MODEL HAS TO BE RERUN IN THE FUTURE.

STREAM CROSS-SECTION SPREADSHEET

Site Number: BCUT-01 **Subsegment:** 120302 **Waterbody:** Bayou Cutoff
Site Description: At Bowie Road Bridge
Type of Equipment: ☐ Fathometer ☐ Hydrotrac ☑ Manual
Initial Bank: ☑ RDB ☐ LDB
Tapedown: N/A
Guage Height: N/A
Date: 6/29/2004

WIDTH[1] (ft):	34.00
AREA[2] (ft[2]):	72.10
AVG. DEPTH[3] (ft):	2.12

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	2.0	1.00	0.00	0.00	0.00%
2	4.0	2.00	0.40	0.80	1.11%
3	6.0	2.00	1.60	3.20	4.44%
4	8.0	2.00	2.70	5.40	7.49%
5	10.0	2.00	2.70	5.40	7.49%
6	12.0	2.00	3.00	6.00	8.32%
7	14.0	2.00	2.40	4.80	6.66%
8	16.0	2.00	2.50	5.00	6.93%
9	18.0	2.00	2.40	4.80	6.66%
10	20.0	2.00	2.40	4.80	6.66%
11	22.0	2.00	2.00	4.00	5.55%
12	24.0	2.00	1.70	3.40	4.72%
13	26.0	2.00	1.60	3.20	4.44%
14	28.0	2.00	2.00	4.00	5.55%
15	30.0	2.00	2.70	5.40	7.49%
16	32.0	2.00	3.50	7.00	9.71%
17	34.0	1.50	2.00	3.00	4.16%
18	35.0	1.00	1.90	1.90	2.64%
19	36.0	0.50	0.00	0.00	0.00%
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	34.00		72.10	100.00%



Data Collection Crew	Griffith, Hughes	Office Data Work	Griffith
Measurement made by:	Griffith	Data Inputed by / Date:	7/8/2004
Notetaker/Recorder:	Hughes	Data Input Checked by / Date:	7/8/2004
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: BCUT-02 **Subsegment:** 120302 **Waterbody:** Bayou Cutoff

Site Description: At bridge off of Acadia Rd

Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☑ Manual

Initial Bank: ☑ RDB ☐ LDB

Tapedown: N/A

Guage Height: N/A

Date: 6/29/2004

WIDTH[1] (ft):	50.00
AREA[2] (ft^2):	168.50
AVG. DEPTH[3](ft):	3.37

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	10.0	2.00	0.00	0.00	0.00%
2	14.0	4.00	2.30	9.20	5.46%
3	18.0	4.00	4.10	16.40	9.73%
4	22.0	4.00	4.50	18.00	10.68%
5	26.0	4.00	4.90	19.60	11.63%
6	30.0	4.00	4.90	19.60	11.63%
7	34.0	4.00	4.40	17.60	10.45%
8	38.0	4.00	4.30	17.20	10.21%
9	42.0	4.00	4.20	16.80	9.97%
10	46.0	4.00	3.70	14.80	8.78%
11	50.0	4.00	2.90	11.60	6.88%
12	54.0	4.00	1.70	6.80	4.04%
13	58.0	3.00	0.30	0.90	0.53%
14	60.0	1.00	0.00	0.00	0.00%
15					
16					
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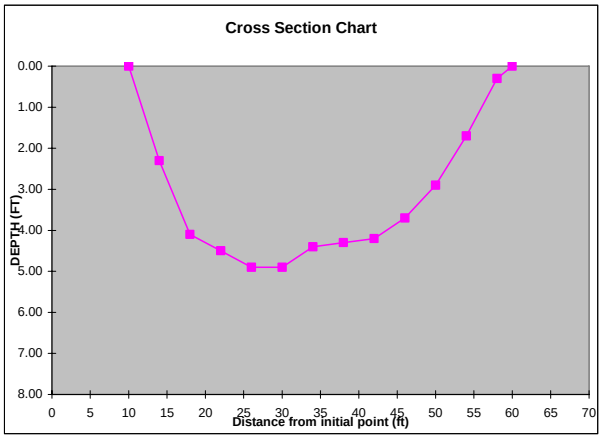
40					
	Total	50.00		168.50	100.00%



Data Collection Crew	Griffith, Hughes	Office Data Work	Griffith
Measurement made by:	Griffith	Data Inputed by / Date:	7/8/2004
Notetaker/Recorder:	Hughes	Data Input Checked by / Date:	7/8/2004
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: BCUT-03 **Subsegment:** 120302 **Waterbody:** Bayou Cutoff
Site Description: At Supercharge Lane Bridge
Type of Equipment: ☐ Fathometer ☐ Hydrotrac ☑ Manual
Initial Bank: ☐ RDB ☑ LDB
Tapedown: N/A
Guage Height: N/A
Date: 6/29/2004

WIDTH[1] (ft):	68.00
AREA[2] (ft^2):	273.70
AVG. DEPTH[3](ft):	4.03

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	3.0	2.50	0.00	0.00	0.00%
2	8.0	5.00	1.40	7.00	2.56%
3	13.0	5.00	2.40	12.00	4.38%
4	18.0	5.00	3.30	16.50	6.03%
5	23.0	5.00	4.90	24.50	8.95%
6	28.0	5.00	5.30	26.50	9.68%
7	33.0	5.00	5.60	28.00	10.23%
8	38.0	5.00	5.80	29.00	10.60%
9	43.0	5.00	5.90	29.50	10.78%
10	48.0	5.00	5.70	28.50	10.41%
11	53.0	5.00	5.80	29.00	10.60%
12	58.0	5.00	4.60	23.00	8.40%
13	63.0	5.00	3.00	15.00	5.48%
14	68.0	4.00	1.30	5.20	1.90%
15	71.0	1.50	0.00	0.00	0.00%
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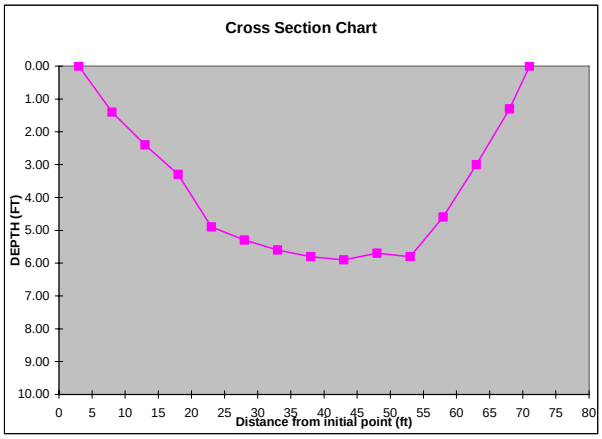
40					
	Total	68.00		273.70	100.00%



Data Collection Crew	Griffith, Hughes	Office Data Work	Griffith
Measurement made by:	Griffith	Data Inputed by / Date:	7/8/2004
Notetaker/Recorder:	Hughes	Data Input Checked by / Date:	7/8/2004
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: BCUT-04 **Subsegment:** 120302 **Waterbody:** Bayou Cutoff

Site Description: St. Charles Loop Road Bridge

Type of Equipment: ☐ Fathometer ☐ Hydrotrac ☑ Manual

Initial Bank: ☐ RDB ☑ LDB

Tapedown: N/A

Guage Height: N/A

Date: 6/29/2004

WIDTH[1] (ft):	83.00
AREA[2] (ft[2]):	360.60
AVG. DEPTH[3](ft):	4.34

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	2.0	1.50	0.00	0.00	0.00%
2	5.0	4.00	0.40	1.60	0.44%
3	10.0	5.00	2.40	12.00	3.33%
4	15.0	5.00	3.50	17.50	4.85%
5	20.0	5.00	4.10	20.50	5.68%
6	25.0	5.00	4.80	24.00	6.66%
7	30.0	5.00	5.80	29.00	8.04%
8	35.0	5.00	5.90	29.50	8.18%
9	40.0	5.00	5.60	28.00	7.76%
10	45.0	5.00	6.00	30.00	8.32%
11	50.0	5.00	6.60	33.00	9.15%
12	55.0	5.00	6.40	32.00	8.87%
13	60.0	5.00	5.70	28.50	7.90%
14	65.0	5.00	5.00	25.00	6.93%
15	70.0	5.00	4.40	22.00	6.10%
16	75.0	5.00	3.40	17.00	4.71%
17	80.0	5.00	2.20	11.00	3.05%
18	85.0	2.50	0.00	0.00	0.00%
19					
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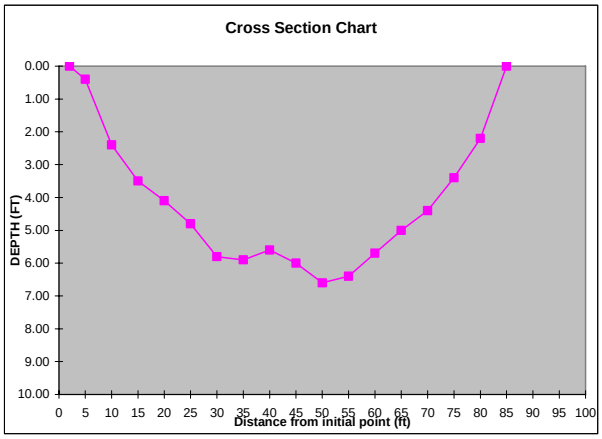
	Total	83.00		360.60	100.00%



Data Collection Crew	Griffith, Hughes	Office Data Work	Griffith
Measurement made by:	Griffith	Data Inputed by / Date:	7/8/2004
Notetaker/Recorder:	Hughes	Data Input Checked by / Date:	7/8/2004
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: BCUT-06 **Subsegment:** 120302 **Waterbody:** Bayou Cut-Off

Site Description: Approximately 0.6 miles above Theriot Canal

Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual

Initial Bank: ☐ RDB ☑ LDB

Tapedown: NA

Guage Height: NA

Date: 7/6/2004

WIDTH[1] (ft):	81.00
AREA[2] (ft[2]):	382.67
AVG. DEPTH[3](ft):	4.72

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	1.00	0.00	0.00	
2	2.0	3.57	1.30	4.64	1.21%
3	7.1	5.14	2.00	10.28	2.69%
4	12.3	5.14	3.00	15.42	4.03%
5	17.4	5.14	4.50	23.13	6.04%
6	22.6	5.14	5.50	28.27	7.39%
7	27.7	5.14	6.30	32.38	8.46%
8	32.8	5.14	6.90	35.47	9.27%
9	38.0	5.14	7.40	38.04	9.94%
10	43.1	5.14	7.60	39.06	10.21%
11	48.3	5.14	7.30	37.52	9.81%
12	53.4	5.14	6.20	31.87	8.33%
13	58.5	5.14	5.30	27.24	7.12%
14	63.7	5.14	3.90	20.05	5.24%
15	68.8	5.14	3.50	17.99	4.70%
16	74.0	6.09	3.50	21.32	5.57%
17	81.0	3.52	0.00	0.00	0.00%
18					
19					
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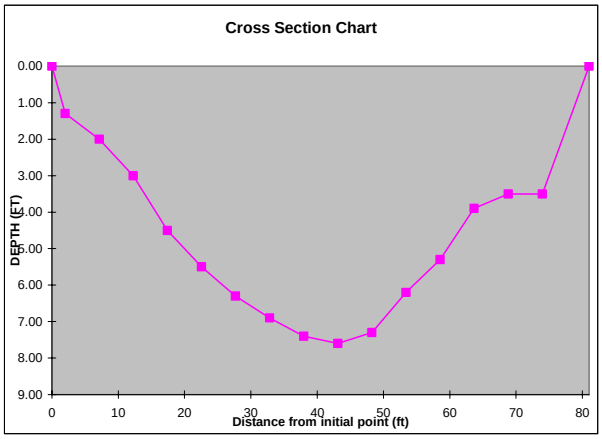
	Total	81.00		382.67	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Dickinson	Data Inputed by / Date:	Dickinson 7/7/04
Notetaker/Recorder:	Fontenot	Data Input Checked by / Date:	
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: BCUT-07 **Subsegment:** 120302 **Waterbody:** Canal Leading to cut-off section Bayou Cutoff

Site Description: Approximately 300 yards above Bayou Folse

Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual

Initial Bank: ☐ RDB ☑ LDB

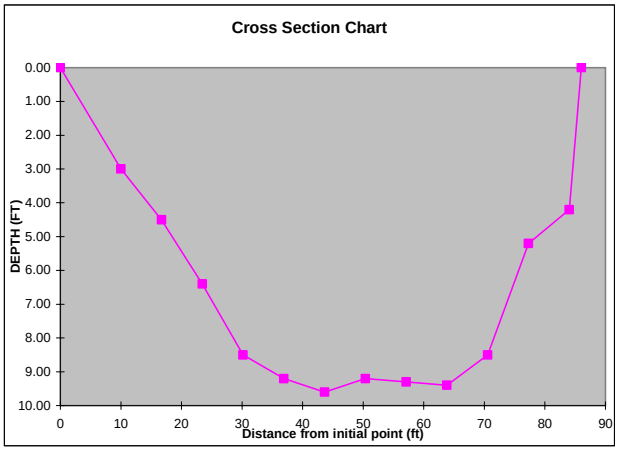
Tapedown: NA

Guage Height: NA

Date: 7/6/2004

WIDTH[1] (ft):	84.98
AREA[2] (ft^2):	582.19
AVG. DEPTH[3](ft):	6.85

Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
0.0	5.00	0.00	0.00	
10.0	4.0	3.00	12.00	2.06%
16.7	10.1	4.50	45.32	7.78%
23.5	6.73	6.40	43.05	7.39%
30.2	6.73	8.50	57.18	9.82%
36.9	6.73	9.20	61.89	10.63%
43.6	6.73	9.60	64.58	11.09%
50.4	6.73	9.20	61.89	10.63%
57.1	6.73	9.30	62.56	10.75%
63.8	6.73	9.40	63.23	10.86%
70.5	6.73	8.50	57.18	9.82%
77.3	6.73	5.20	34.98	6.01%
84.0	4.37	4.20	18.33	3.15%
86.0	1.00	0.00	0.00	0.00%
Total	84.98		582.19	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Dickinson	Data Inputed by / Date:	Dickinson 7/7/04
Notetaker/Recorder:	Fontenot	Data Input Checked by / Date:	
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: BFOL-02 **Subsegment:** 120302 **Waterbody:** Bayou Folse

Site Description: Approximately midway between Bayou DuMar Cutoff Canal and the canal leading to the cutoff section of Bayou Cutoff

Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual

Initial Bank: ☑ RDB ☑ LDB

Tapedown: NA

Guage Height: NA

Date:

WIDTH[1] (ft):	135.00
AREA[2] (ft[2]):	703.10
AVG. DEPTH[3](ft):	5.21

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	1.50	0.00	0.00	
2	3.0	3.94	1.60	6.30	0.90%
3	7.9	4.88	1.80	8.78	1.25%
4	12.8	4.88	2.80	13.66	1.94%
5	17.6	4.88	5.00	24.40	3.47%
6	22.5	4.88	6.40	31.23	4.44%
7	27.4	4.88	7.30	35.62	5.07%
8	32.3	4.88	7.60	37.09	5.27%
9	37.2	4.88	7.70	37.58	5.34%
10	42.0	4.88	7.60	37.09	5.27%
11	46.9	4.88	7.60	37.09	5.27%
12	51.8	4.88	7.40	36.11	5.14%
13	56.7	4.88	7.20	35.14	5.00%
14	61.6	4.88	7.10	34.65	4.93%
15	66.4	4.88	7.10	34.65	4.93%
16	71.3	4.88	7.10	34.65	4.93%
17	76.2	4.88	7.00	34.16	4.86%
18	81.1	4.88	6.80	33.18	4.72%
19	86.0	4.88	6.70	32.70	4.65%
20	90.8	4.88	6.70	32.70	4.65%
21	95.7	4.88	6.30	30.74	4.37%
22	100.6	4.88	5.70	27.82	3.96%
23	105.5	4.88	4.50	21.96	3.12%
24	110.4	4.88	3.00	14.64	2.08%
25	115.2	4.88	2.10	10.25	1.46%
26	120.1	4.88	2.00	9.76	1.39%
27	125.0	7.44	1.50	11.16	1.59%
28	135.0	5.00	0.00	0.00	0.00%
29					
30					
31					
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36					
37					
38					
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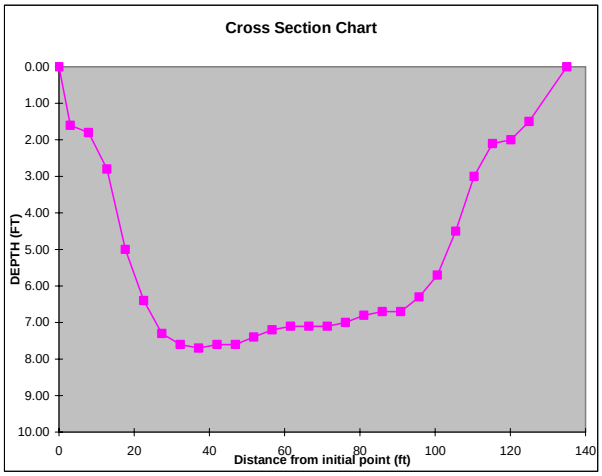
40					
	Total	135.00		703.10	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Fontenot	Data Inputed by / Date:	Dickinson
Notetaker/Recorder:	Dickinson	Data Input Checked by / Date:	
Other:	Hughes		

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: BFOL-03 **Subsegment:** 120302 **Waterbody:** Bayou Folse

Site Description: Approximately 0.5 miles below Theriot Canal

Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual

Initial Bank: ☐ RDB ☑ LDB

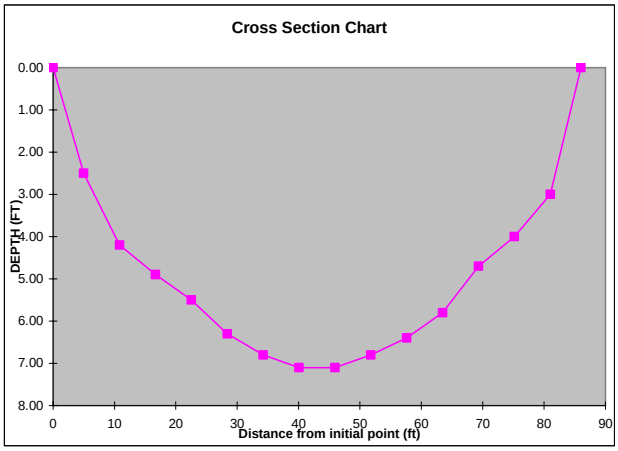
Tapedown: NA

Guage Height: NA

Date: 7/6/2004

WIDTH[1] (ft):	86.00
AREA[2] (ft^2):	436.71
AVG. DEPTH[3](ft):	5.08

Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
0.0	2.50	0.00	0.00	
5.0	5.42	2.50	13.56	3.10%
10.8	5.85	4.20	24.55	5.62%
16.7	5.85	4.90	28.65	6.56%
22.5	5.85	5.50	32.15	7.36%
28.4	5.85	6.30	36.83	8.43%
34.2	5.85	6.80	39.75	9.10%
40.1	5.85	7.10	41.51	9.50%
45.9	5.85	7.10	41.51	9.50%
51.8	5.85	6.80	39.75	9.10%
57.6	5.85	6.40	37.41	8.57%
63.5	5.85	5.80	33.91	7.76%
69.3	5.85	4.70	27.48	6.29%
75.2	5.85	4.00	23.38	5.35%
81.0	5.42	3.00	16.27	3.73%
86.0	2.50	0.00	0.00	0.00%
Total	86.00		436.71	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Dickinson	Data Inputed by / Date:	Dickinson 7/7/04
Notetaker/Recorder:	Fontenot	Data Input Checked by / Date:	
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: AC-01 **Subsegment:** 120302 **Waterbody:** Arpent Canal

Site Description: At bridge on Ledet Street

Type of Equipment: ☐ Fathometer ☐ Hydrotrac ☑ Manual

Initial Bank: ☐ RDB ☑ LDB

Tapedown: N/A

Guage Height: N/A

Date: 6/29/2004

WIDTH[1] (ft):	25.00
AREA[2] (ft^2):	19.50
AVG. DEPTH[3](ft):	0.78

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	1.50	0.60	0.90	4.62%
3	3.0	2.00	0.70	1.40	7.18%
4	5.0	2.00	0.80	1.60	8.21%
5	7.0	2.00	0.90	1.80	9.23%
6	9.0	2.00	1.10	2.20	11.28%
7	11.0	2.00	1.10	2.20	11.28%
8	13.0	2.00	1.20	2.40	12.31%
9	15.0	2.00	1.00	2.00	10.26%
10	17.0	2.00	0.90	1.80	9.23%
11	19.0	2.00	0.70	1.40	7.18%
12	21.0	2.00	0.70	1.40	7.18%
13	23.0	2.00	0.20	0.40	2.05%
14	25.0	1.00	0.00	0.00	0.00%
15					
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22					
23					
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31					
32					
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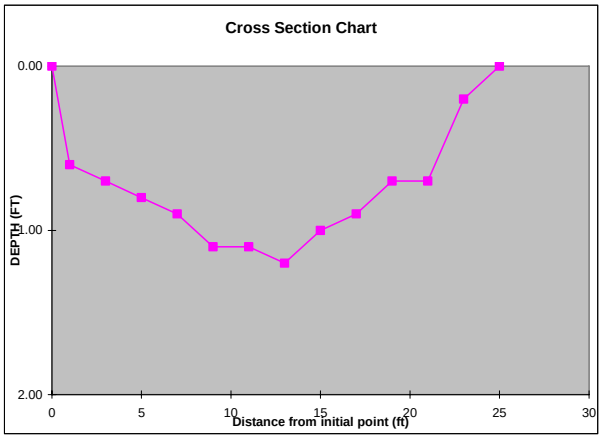
34					
35					
36					
37					
38					
39					
40					
	Total	25.00		19.50	100.00%



Data Collection Crew	Griffith, Hughes	Office Data Work	Griffith
Measurement made by:	Griffith	Data Inputed by / Date:	7/8/2004
Notetaker/Recorder:	Hughes	Data Input Checked by / Date:	7/8/2004
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.

Linear rating curves from DYNHYD elevations for cross-section sites

$W=aQ^b+c$ $D=dQ^e+f$

Site	BCUT-01	BCUT-02	BCUT-03	BCUT-04	BCUT-06	BFOL-03	BFOL-02
RKm	33.22	30.68	27.39	22.66	15.68	13.69	6.45
Reach	1	3	7	8	12	13	16
Apply to reaches	1	3	5,7	8	10-12	13-14	15-16
DYNHYD channel	72	69	63	51	36	32	15
Calibration elevation							
Average	0.820	0.745	0.725	0.713	0.702	0.699	0.694
Zero flow (Channel 1) elevation							
Average	0.673	0.673	0.673	0.673	0.673	0.673	0.673
Delta elevation	0.147	0.072	0.052	0.041	0.029	0.026	0.022
Calibration depth	0.65	1.03	1.23	1.32	1.44	1.55	1.59
Calibration flow	1.03	1.04	1.05	1.05	1.05	1.05	1.05
Zero flow depth	0.50	0.96	1.18	1.28	1.41	1.52	1.57
d	0.143	0.070	0.050	0.039	0.028	0.025	0.021
f	0.50	0.96	1.18	1.28	1.41	1.52	1.57
Calibration width	10.35	15.24	20.73	25.18	24.58	26.21	41.15
Zero flow width	9.52	14.26	20.31	24.38	24.55	26.14	40.80
a	0.806	0.942	0.400	0.762	0.029	0.067	0.333
c	9.52	14.26	20.31	24.38	24.55	26.14	40.80

Average Elevation

Raceland Canal	Channel 9	Channel 5		Channel 4		BFOL-01		Channel 1	
6/29/2004 23:00	0.717292	6/29/2004 23:00	0.710442	6/29/2004 23:00	0.706635	6/29/2004 23:00	0.691722	6/29/2004 23:00	0.679553
6/29/2004 23:59	0.716001	6/29/2004 23:59	0.708592	6/29/2004 23:59	0.704424	6/29/2004 23:59	0.687979	6/29/2004 23:59	0.67447
6/30/2004 1:00	0.709582	6/30/2004 1:00	0.703677	6/30/2004 1:00	0.699711	6/30/2004 1:00	0.683285	6/30/2004 1:00	0.669455
6/30/2004 2:00	0.703879	6/30/2004 2:00	0.697686	6/30/2004 2:00	0.693812	6/30/2004 2:00	0.678031	6/30/2004 2:00	0.66485
6/30/2004 2:59	0.698952	6/30/2004 2:59	0.692834	6/30/2004 2:59	0.689027	6/30/2004 2:59	0.673639	6/30/2004 2:59	0.660908
6/30/2004 4:00	0.694465	6/30/2004 4:00	0.688516	6/30/2004 4:00	0.684822	6/30/2004 4:00	0.669963	6/30/2004 4:00	0.657744
6/30/2004 5:00	0.69032	6/30/2004 5:00	0.684616	6/30/2004 5:00	0.681083	6/30/2004 5:00	0.666919	6/30/2004 5:00	0.655348
6/30/2004 5:59	0.686485	6/30/2004 5:59	0.681093	6/30/2004 5:59	0.677759	6/30/2004 5:59	0.664452	6/30/2004 5:59	0.653648
6/30/2004 7:00	0.682975	6/30/2004 7:00	0.677945	6/30/2004 7:00	0.674843	6/30/2004 7:00	0.662526	6/30/2004 7:00	0.652604
6/30/2004 8:00	0.679817	6/30/2004 8:00	0.67521	6/30/2004 8:00	0.672377	6/30/2004 8:00	0.661197	6/30/2004 8:00	0.652274
6/30/2004 8:59	0.677081	6/30/2004 8:59	0.672966	6/30/2004 8:59	0.670452	6/30/2004 8:59	0.660597	6/30/2004 8:59	0.652834
6/30/2004 10:00	0.674881	6/30/2004 10:00	0.671355	6/30/2004 10:00	0.669215	6/30/2004 10:00	0.660933	6/30/2004 10:00	0.654521
6/30/2004 11:00	0.673404	6/30/2004 11:00	0.670568	6/30/2004 11:00	0.668871	6/30/2004 11:00	0.662406	6/30/2004 11:00	0.657521
6/30/2004 11:59	0.672914	6/30/2004 11:59	0.670856	6/30/2004 11:59	0.669646	6/30/2004 11:59	0.665145	6/30/2004 11:59	0.661857
6/30/2004 13:00	0.673629	6/30/2004 13:00	0.672383	6/30/2004 13:00	0.671669	6/30/2004 13:00	0.669099	6/30/2004 13:00	0.667313
6/30/2004 14:00	0.675723	6/30/2004 14:00	0.675221	6/30/2004 14:00	0.67495	6/30/2004 14:00	0.674021	6/30/2004 14:00	0.673439
6/30/2004 14:59	0.679535	6/30/2004 14:59	0.679504	6/30/2004 14:59	0.679506	6/30/2004 14:59	0.679553	6/30/2004 14:59	0.679638
6/30/2004 16:00	0.685214	6/30/2004 16:00	0.685188	6/30/2004 16:00	0.685192	6/30/2004 16:00	0.685242	6/30/2004 16:00	0.685294
6/30/2004 17:00	0.691282	6/30/2004 17:00	0.690875	6/30/2004 17:00	0.6907	6/30/2004 17:00	0.690204	6/30/2004 17:00	0.689898
6/30/2004 17:59	0.696478	6/30/2004 17:59	0.695636	6/30/2004 17:59	0.695232	6/30/2004 17:59	0.693967	6/30/2004 17:59	0.69313
6/30/2004 19:00	0.700894	6/30/2004 19:00	0.699566	6/30/2004 19:00	0.69888	6/30/2004 19:00	0.696542	6/30/2004 19:00	0.69487
6/30/2004 20:00	0.704318	6/30/2004 20:00	0.702471	6/30/2004 20:00	0.70146	6/30/2004 20:00	0.69785	6/30/2004 20:00	0.695151
6/30/2004 20:59	0.706543	6/30/2004 20:59	0.704177	6/30/2004 20:59	0.702841	6/30/2004 20:59	0.697892	6/30/2004 20:59	0.694088
6/30/2004 22:00	0.707627	6/30/2004 22:00	0.704751	6/30/2004 22:00	0.703088	6/30/2004 22:00	0.69678	6/30/2004 22:00	0.691824
6/30/2004 23:00	0.70764	6/30/2004 23:00	0.704272	6/30/2004 23:00	0.702282	6/30/2004 23:00	0.694628	6/30/2004 23:00	0.688513
6/30/2004 23:59	0.706705	6/30/2004 23:59	0.702866	6/30/2004 23:59	0.70057	6/30/2004 23:59	0.691595	6/30/2004 23:59	0.684341
7/1/2004 1:00	0.70508	7/1/2004 1:00	0.700757	7/1/2004 1:00	0.698155	7/1/2004 1:00	0.687905	7/1/2004 1:00	0.679553
Average -------->	0.693	Average -------->	0.690	Average -------->	0.688	Average -------->	0.679	Average -------->	0.673

Linear rating curves from DYNHYD elevations for cross-section sites

$W=aQ^b+c$ $D=dQ^e+f$

Site	BCUT-01	BCUT	BCUT	BCUT-02	BCUT	BCUT-03	BCUT-04	BCUT-06	BFOL-03	BFOL-02	Raceland Canal	BFOL	BFOL	BFOL-01
RKm	33.22	32.22	31.37	30.68	30.06	27.39	22.66	15.68	13.69	6.45	0.70	3.19	2.35	0.62
Reach	1	1	1	3	3	7	8	12	13	16	18	19	20	20
DYNHYD channel	72	71	70	69	68	63	51	36	32	15	9	5	4	2
Calibration elevation														
Average	0.820	0.780	0.756	0.745	0.739	0.725	0.713	0.702	0.699	0.694	0.693	0.690	0.688	0.679
Zero flow (Channel 1) elevation														
Average	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673	0.673
Delta elevation	0.147	0.107	0.083	0.072	0.066	0.052	0.041	0.029	0.026	0.022	0.021	0.017	0.015	0.007
Calibration depth	0.65	0.65	0.65	1.03	1.03	1.23	1.32	1.44	1.55	1.59	1.00	1.02	1.02	1.02
Calibration flow	1.03	1.03	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	0.67	1.72	1.72	1.72
Zero flow depth	0.50	0.54	0.57	0.96	0.96	1.18	1.28	1.41	1.52	1.57	0.98	1.00	1.00	1.01
d	0.143	0.104	0.080	0.070	0.063	0.050	0.039	0.028	0.025	0.021	0.031	0.010	0.009	0.004
f	0.50	0.54	0.57	0.96	0.96	1.18	1.28	1.41	1.52	1.57	0.98	1.00	1.00	1.01
Calibration width	10.35	10.35	10.35	15.24	15.20	20.73	25.18	24.58	26.14	41.15	30.00	31.40	31.40	31.40
Zero flow width	9.52	9.48	9.48	14.26	9.48	20.31	24.38	24.55	26.14	40.80				
a	0.806	0.845	0.837	0.942	5.448	0.400	0.762	0.029	0.000	0.333	44.776	18.256	18.256	18.256
c	9.52	9.48	9.48	14.26	9.48	20.31	24.38	24.55	26.14	40.80	0.00	0.00	0.00	0.00

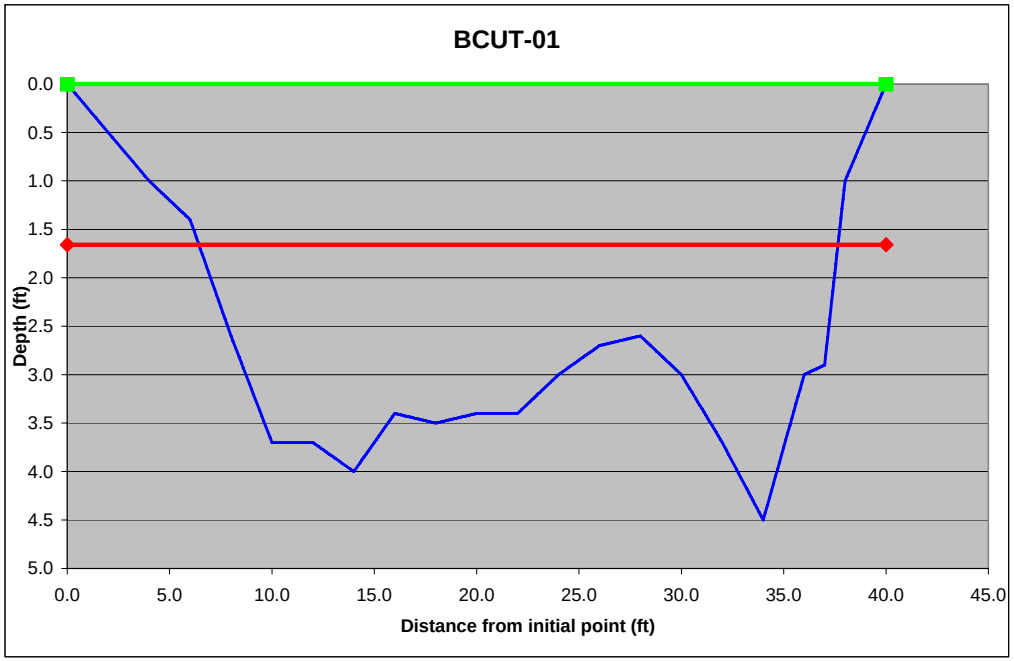
STREAM CROSS-SECTION FORM

Site Number:	BCUT-01
Site Description:	
Waterbody:	Bayou Folse - Bayou Cutoff
Type of Meter:	DUMPY LEVEL
Tapedown/Ght.:	23.34
Weather:	COOL, CLEAR
Date:	12/7/1999

Units	English	metric
WIDTH: (Note 1)	31.25	9.52
AREA: (Note 2)	50.75	4.72
AVG. DEPTH: (Note 3)	1.62	0.50

Start Time: 1010 HRS **End Time:** 1030 HRS

1.66	Vertical distance below baseline elevation:



Discharge at given water level = Flow (Q) (cfs) =	150.00
Hydrolic Radius (R) =[X-section Area / Cum. Wetted Perimeter] =	1.51
Lookup value =Mannings Const. (n) =	0.025

Slope (S) (ft/ft)= $[(Q \times n) / (1.49 \times \text{X-sect Area} * R^{2/3})]^2$ = 1.42E-03 (ft /ft) 7.4715 (ft/mile) 89.6577 (in/mile)

Data Collection Crew		Office Data Work	
Measurement made by:		Data Inputed by / Date:	
Notetaker/Recorder:		Data Input Checked by / Date:	
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)

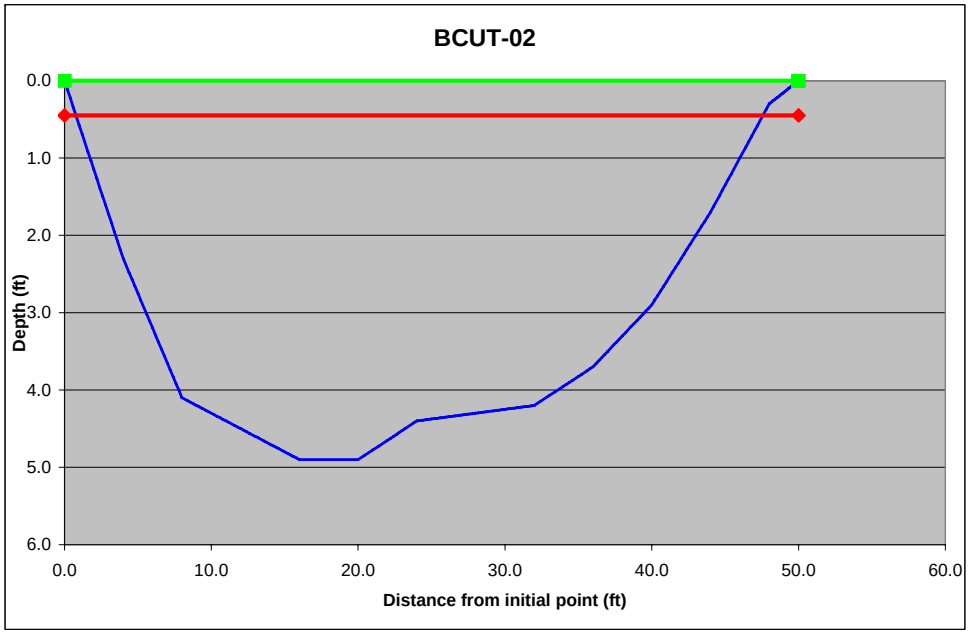
STREAM CROSS-SECTION FORM

Site Number: BCUT-02
Site Description:
Waterbody: Bayou Folse - Bayou Cutoff
Type of Meter: DUMPY LEVEL
Tapedown/Ght.: 24.55
Weather: COOL, CLEAR
Date: 12/7/1999

Units	English	metric
WIDTH: (Note 1)	46.80	14.26
AREA: (Note 2)	146.80	13.64
AVG. DEPTH: (Note 3)	3.14	0.96

Start Time: 1010 HRS **End Time:** 1030 HRS

0.45	Vertical distance below baseline elevation:



Discharge at given water level = Flow (Q) (cfs) = 150.00
Hydrolic Radius (R) =[X-section Area / Cum. Wetted Perimeter] = 3.04
Lookup value =Mannings Const. (n) = 0.025
Slope (S) (ft/ft)= $[(Q \times n) / (1.49 \times \text{X-sect Area} * R^{2/3})]^2$ = 6.67E-05 (ft /ft) 0.3519 (ft/mile) 4.2231 (in/mile)

Data Collection Crew		Office Data Work	
Measurement made by:		Data Inputed by / Date:	
Notetaker/Recorder:		Data Input Checked by / Date:	
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)

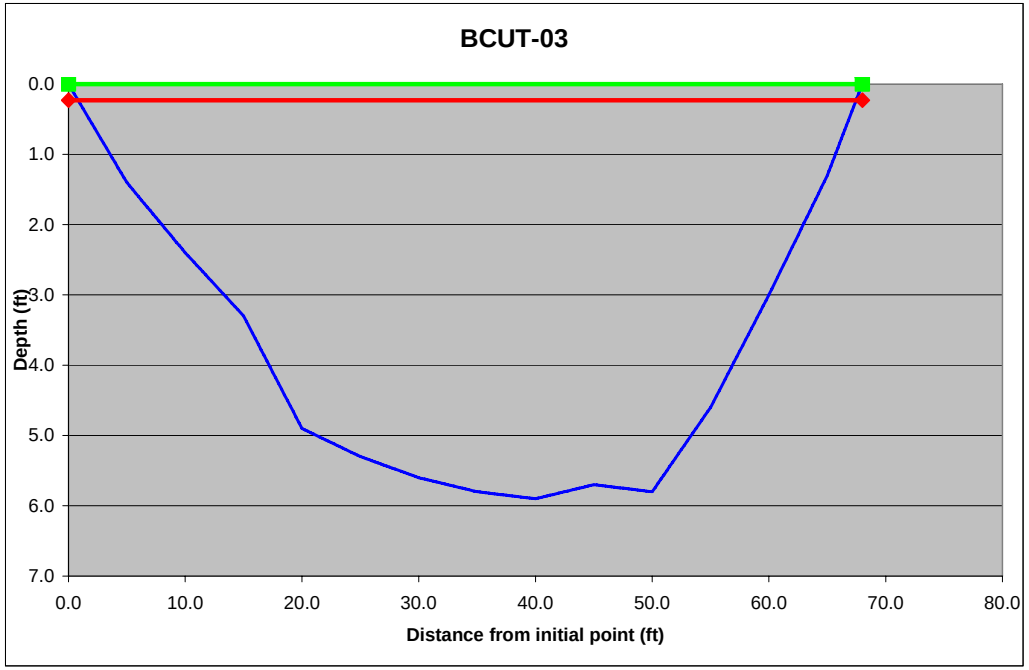
STREAM CROSS-SECTION FORM

Site Number:	BCUT-03
Site Description:	
Waterbody:	Bayou Folse - Bayou Cutoff
Type of Meter:	DUMPY LEVEL
Tapedown/Ght.:	24.77
Weather:	5.18
Date:	12/7/1999

Units	English	metric
WIDTH: (Note 1)	66.65	20.31
AREA: (Note 2)	258.22	23.99
AVG. DEPTH: (Note 3)	3.87	1.18

Start Time: 1010 HRS **End Time:** 1030 HRS

0.23	Vertical distance below baseline elevation:



Discharge at given water level = Flow (Q) (cfs) =	150.00			
Hydrolic Radius (R) =[X-section Area / Cum. Wetted Perimeter] =	3.79			
Lookup value =Mannings Const. (n) =	0.025			
Slope (S) (ft/ft)= $[(Q \times n) / (1.49 \times \text{X-sect Area} * R^{2/3})]^2$ =	1.61E-05	(ft /ft)	0.0849 (ft/mile)	1.0192 (in/mile)

Data Collection Crew		Office Data Work	
Measurement made by:		Data Inputed by / Date:	
Notetaker/Recorder:		Data Input Checked by / Date:	
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)

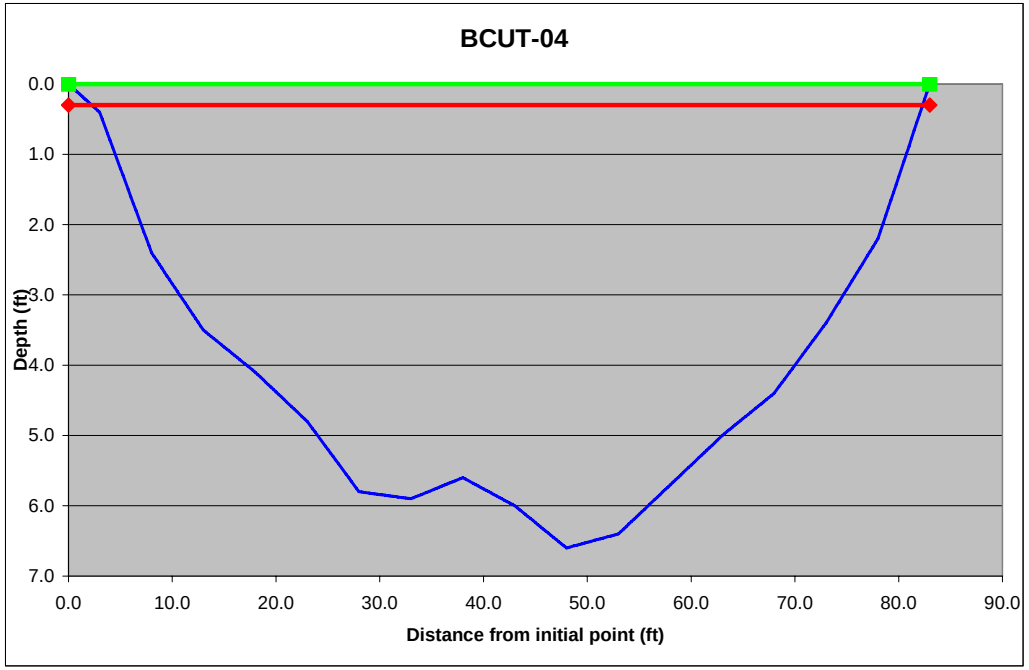
STREAM CROSS-SECTION FORM

Site Number:	BCUT-04
Site Description:	
Waterbody:	Bayou Folse - Bayou Cutoff
Type of Meter:	DUMPY LEVEL
Tapedown/Ght.:	24.70
Weather:	5.18
Date:	12/7/1999

Units	English	metric
WIDTH: (Note 1)	80.00	24.38
AREA: (Note 2)	336.14	31.23
AVG. DEPTH: (Note 3)	4.20	1.28

Start Time: 1010 HRS **End Time:** 1030 HRS

0.30	Vertical distance below baseline elevation:



Discharge at given water level = Flow (Q) (cfs) =	150.00
Hydrolic Radius (R) =[X-section Area / Cum. Wetted Perimeter] =	4.12
Lookup value =Mannings Const. (n) =	0.025

Slope (S) (ft/ft)= $[(Q \times n) / (1.49 \times \text{X-sect Area} * R^{2/3})]^2$ = 8.48E-06 (ft /ft) | 0.0448 (ft/mile) | 0.5373 (in/mile)

Data Collection Crew		Office Data Work	
Measurement made by:		Data Inputed by / Date:	
Notetaker/Recorder:		Data Input Checked by / Date:	
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)

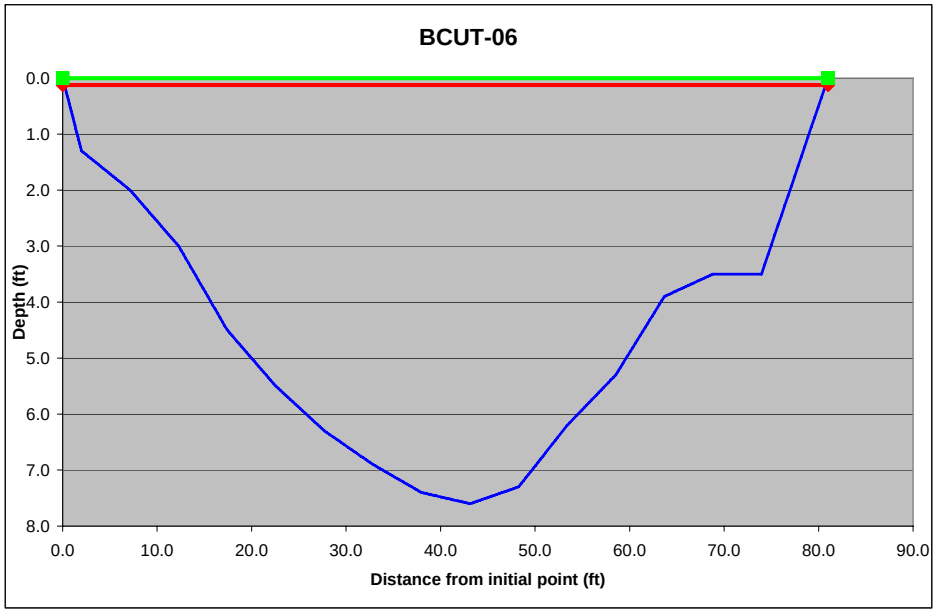
STREAM CROSS-SECTION FORM

Site Number:	BCUT-06
Site Description:	
Waterbody:	Bayou Folse - Bayou Cutoff
Type of Meter:	DUMPY LEVEL
Tapedown/Ght.:	24.88
Weather:	2.00
Date:	12/7/1999

Units	English	metric
WIDTH: (Note 1)	80.55	24.55
AREA: (Note 2)	372.57	34.61
AVG. DEPTH: (Note 3)	4.63	1.41

Start Time: 1010 HRS **End Time:** 1030 HRS

0.13	Vertical distance below baseline elevation:



Discharge at given water level = Flow (Q) (cfs) =	150.00
Hydrolic Radius (R) =[X-section Area / Cum. Wetted Perimeter] =	4.51
Lookup value =Mannings Const. (n) =	0.025

Slope (S) (ft/ft)= [(Q x n) / (1.49 x X-sect Area * $R^{2/3}$)]^2 = 6.13E-06 (ft /ft) | 0.0324 (ft/mile) | 0.3883 (in/mile)

Data Collection Crew		Office Data Work	
Measurement made by:		Data Inputed by / Date:	
Notetaker/Recorder:		Data Input Checked by / Date:	
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)

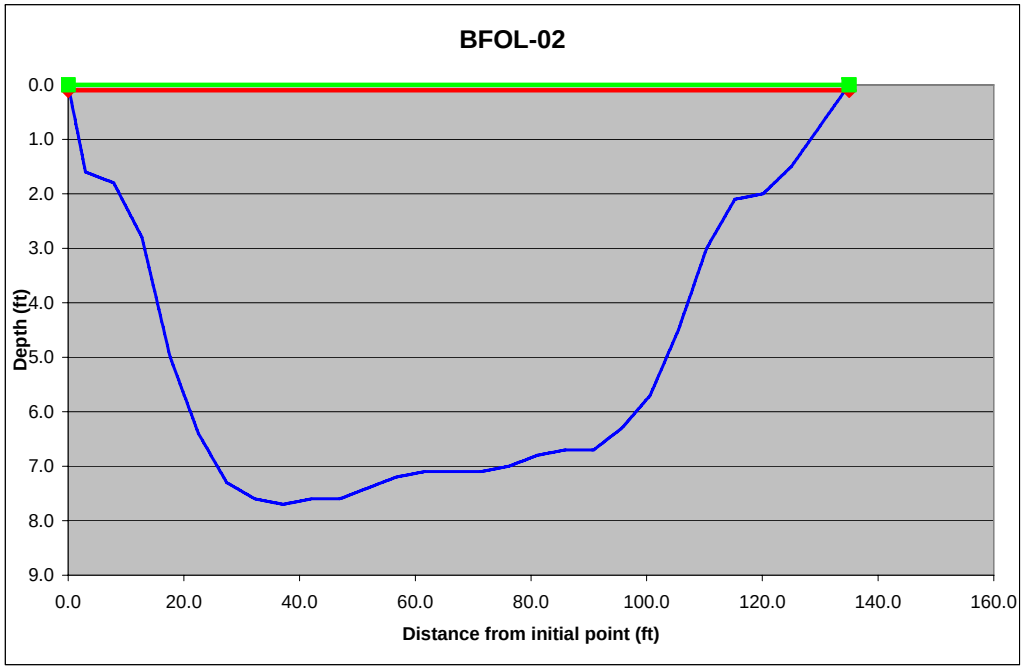
STREAM CROSS-SECTION FORM

Site Number: BFOL-02
Site Description:
Waterbody: Bayou Folse - Bayou Cutoff
Type of Meter: DUMPY LEVEL
Tapedown/Ght.: 24.90
Weather: 2.00
Date: 12/7/1999

Units	English	metric
WIDTH: (Note 1)	133.85	40.80
AREA: (Note 2)	689.63	64.07
AVG. DEPTH: (Note 3)	5.15	1.57

Start Time: 1010 HRS **End Time:** 1030 HRS

0.10	Vertical distance below baseline elevation:



Discharge at given water level = Flow (Q) (cfs) = 150.00
Hydrolic Radius (R) =[X-section Area / Cum. Wetted Perimeter] = 5.08
Lookup value =Mannings Const. (n) = 0.025

Slope (S) (ft/ft)= $[(Q \times n) / (1.49 \times \text{X-sect Area} * R^{2/3})]^2$ = 1.52E-06 (ft /ft) | 0.0081 (ft/mile) | 0.0966 (in/mile)

Data Collection Crew		Office Data Work	
Measurement made by:		Data Inputed by / Date:	
Notetaker/Recorder:		Data Input Checked by / Date:	
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)

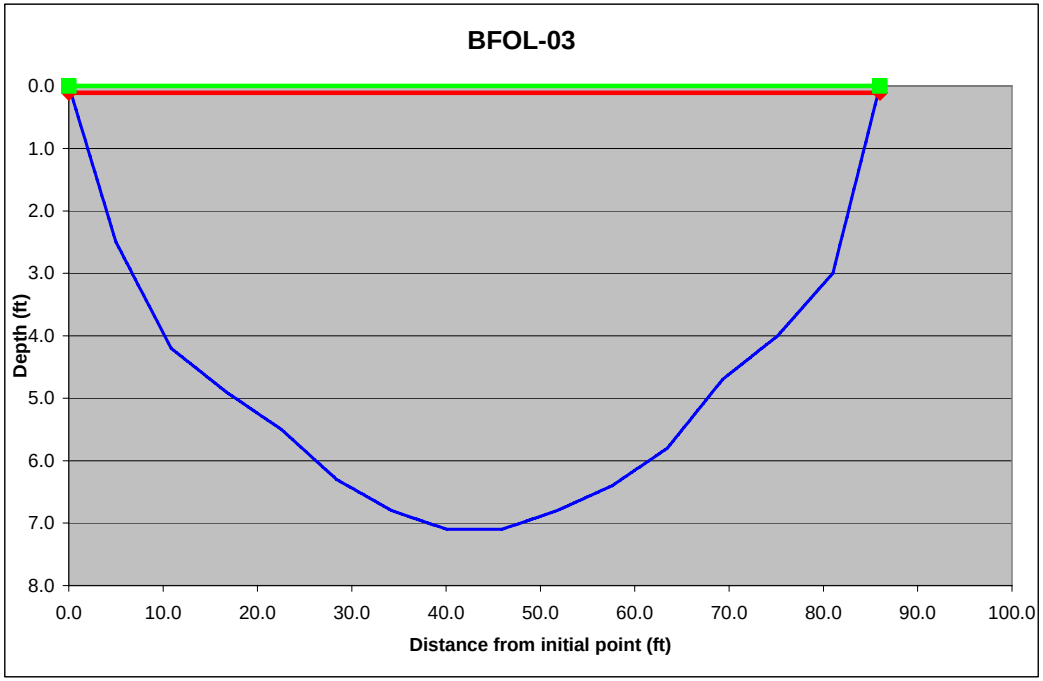
STREAM CROSS-SECTION FORM

Site Number:	BFOL-03
Site Description:	
Waterbody:	Bayou Folse - Bayou Cutoff
Type of Meter:	DUMPY LEVEL
Tapedown/Ght.:	24.89
Weather:	2.00
Date:	12/7/1999

Units	English	metric
WIDTH: (Note 1)	85.75	26.14
AREA: (Note 2)	427.27	39.70
AVG. DEPTH: (Note 3)	4.98	1.52

Start Time: 1010 HRS **End Time:** 1030 HRS

0.11	Vertical distance below baseline elevation:



Discharge at given water level = Flow (Q) (cfs) =	150.00
Hydrolic Radius (R) =[X-section Area / Cum. Wetted Perimeter] =	4.87
Lookup value =Mannings Const. (n) =	0.025

Slope (S) (ft/ft)= $[(Q \times n) / (1.49 \times \text{X-sect Area} * R^{2/3})]^2$ = 4.21E-06 (ft /ft) | 0.0222 (ft/mile) | 0.2665 (in/mile)

Data Collection Crew		Office Data Work	
Measurement made by:		Data Inputed by / Date:	
Notetaker/Recorder:		Data Input Checked by / Date:	
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)

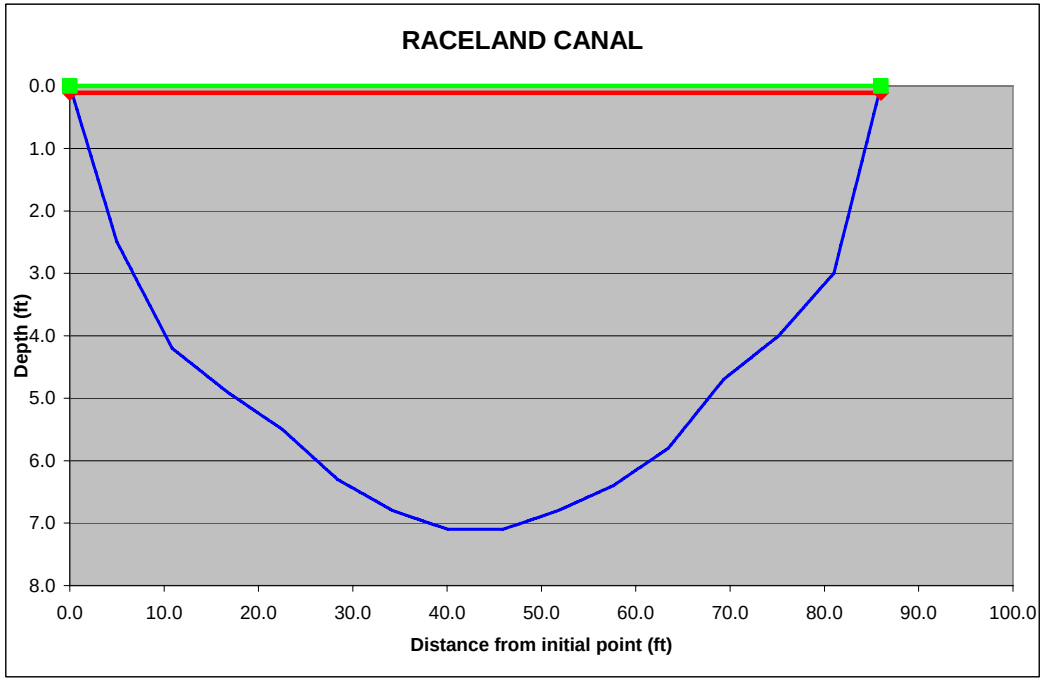
STREAM CROSS-SECTION FORM

Site Number: RACELAND CANAL
Site Description:
Waterbody: Bayou Folse - Bayou Cutoff
Type of Meter: DUMPY LEVEL
Tapedown/Ght.: 24.89
Weather: 2.00
Date: 12/7/1999

Units	English	metric
WIDTH: (Note 1)	85.75	26.14
AREA: (Note 2)	427.27	39.70
AVG. DEPTH: (Note 3)	4.98	1.52

Start Time: 1010 HRS **End Time:** 1030 HRS

0.11	Vertical distance below baseline elevation:



Discharge at given water level = Flow (Q) (cfs) = 150.00
Hydrolic Radius (R) =[X-section Area / Cum. Wetted Perimeter] = 4.87
Lookup value =Mannings Const. (n) = 0.025
Slope (S) (ft/ft)= $[(Q \times n) / (1.49 \times \text{X-sect Area} * R^{2/3})]^2$ = 4.21E-06 (ft /ft) 0.0222 (ft/mile) 0.2665 (in/mile)

Data Collection Crew		Office Data Work	
Measurement made by:		Data Inputed by / Date:	
Notetaker/Recorder:		Data Input Checked by / Date:	
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)

Appendix F3 – Field Notes

Bayou Folse, Company Canal, Bayou L'eau Bleu, Lake Long
Survey Report

Bayou Folse (subsegment 120302) and Bayou L'eau Bleu (subsegment 120303) are located in the Terrebone basin and combined are approximately 25 miles long. The survey started at Bowie Road in Thibodaux and continued to the Intracoastal Waterway near Larose. It was conducted from June 29, 2004 through July 6, 2004. The majority of the land use along the Bayou L'eau Bleu is wetlands. Bayou Folse is mostly comprised of sugarcane fields and riparian forest with some residential areas along the bottom of the subsegment. In addition, there are multiple pump stations pumping storm water drainage out of the low-lying residential areas and into the bayous.

The Watershed Survey Group took water quality samples throughout the length of the bayous along with In-Situ readings on June 30. There was some measurable flow taken with the Acoustic Doppler on Bayou Folse, Company Canal and Bayou L'eau Bleu. Two dye studies were conducted during the survey. One on Bayou Folse, which began at site BCUT-05, and another on Bayou L'eau Bleu that began at site BLB-06. There were a total of fifteen continuous monitors used on the survey. Of the fifteen, six were vented depth. All monitors were deployed for seven days beginning on June 29.*** GPS readings were taken prior to the survey and cross sections were taken during the survey. Weather Station Data was lost after the survey due to lack of memory. Weather information was obtained for the Louisiana Agriclimatic Information System for Houma during the period of the survey. Pump station records were obtained at the Forty Arpent pump station near Company Canal. Pump records were unattainable at the Tom Foret Canal pump station. All field observations, lab, and monitor data are included in this report.

*** The continuous monitor at LL-02 loss power on July 2, approximately four days after deployment. The monitor at CC-02 loss power on July 3, and the BCUT-01 monitor loss power on July 4.

Bayou Folse/Bayou Cutoff 120302 Insitu Data

SITE ID NUMBER	Date	DEPTH	TEMP deg C	DO, mg/L	DO Sat	pH	Conductivity	SECCHI inches	SALINITY, ug/L	BATTERY, volts
AC-01	30-Jun-04	0.3	26.09	1.66	20.4	7.51	210	1	0.1	13.6
AC-02	30-Jun-04	1	26.56	1.43	17.9	6.99	316.2	4	0.15	10.5
BCUT-01	30-Jun-04	1	25.93	2.04	24.5	7.05	437.6	3	0.22	13.6
BCUT-02	30-Jun-04	1	26.4	1.37	17	7.35	200.5	3	0.09	13.6
BCUT-03	30-Jun-04	1	25.76	1.34	16.2	7.34	168.3	2	0.07	13.5
BCUT-04	30-Jun-04	1	25.94	0.92	11.4	7.43	247.2	6	0.12	
BCUT-07	30-Jun-04	0.5	28.06	1.22	15.6	6.78	170.1		0.08	7.6
BFOL-01	30-Jun-04	1	27.56	0.52	6.6	6.89	218.4	18	0.1	7.8
BFOL-02	30-Jun-04	0.5	27.55	1.59	20.2	6.85	188.6		0.09	7.6
BFOL-03	30-Jun-04	0.5	26.38	1.92	23.9	6.86	189.2	12	0.09	
CC-01	30-Jun-04	1	29.02	5.37	70.1	7.36	201.5	18	0.09	7.8
CC-02	30-Jun-04	1	28.67	4.87	63.1	7.57	184	12	0.08	11.8

Site Information

Site #: BCUT-01 Subsegment: 120302 Date: 6/29/04 Time: 0930 hr.

Waterbody: Bayou Cutoff Tapedown 1: 9.50 ft Staff Gauge 1: ____

Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____

Site Location: AT Bowie Road

Personnel: Hughes, Griff

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☐	<1 ☑	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☑	1-5 ☐	SW ☐ S ☐ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☑			
71 – 100% ☐			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 39897

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): .5 m

Continuous Monitor Location: BCUT-01

Water Quality Field Parameters

Time: ____ Temp.(°C): ____ pH: ____ Spcond(µhmos/cm): ____

D.O.: ____ D.O. %: ____ Salinity: ____ Depth (m): ____ Secchi (in): ____

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☑ Measurement Location: At bridge

Type of Measurement Manual: ☑ Fathometer ☐ Cross Section File Name: BCUT01XS

GPS Measurement: ☑ GPS SSF File Name: BCUT01 – point

Site GPS: ☑ Cross Section GPS: ☐ Bfolsetruck – folder name

Comments: XS started on RDB

120302 6/29/04 09:30HRS BCUT 01

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N:

References

Convert Feet to Meters

0.5 ft 0.15 m

1.0 ft 0.30 m

1.5 ft 0.45 m

2.0 ft 0.60 m

2.5 ft 0.75 m

Site Information

Site #: BCUT01 Subsegment: 120302 Date: 6/30/04 Time: 0930 hrs
Waterbody: Bayou Cutoff Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: At bowie Rd bridge
Personnel: Griffith, Hughes
Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☐	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☑	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☑			
71 – 100% ☐			

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐
Flow Direction Upstream ☑ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
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: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

S/N 39001 Water Quality Field Parameters IBATT 13.6 IBV 7.4
Time: 0930 Temp.(°C): 25.93 pH: 7.05 Spcond(µhmos/cm): 437.6
D.O.: 2.04 D.O. %: 24.5 Salinity: 0.22 Depth (m): 1m Secchi (in): 3"

Flow Measurement: ☑ Measurement Location: At bridge
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☑ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
Drogue Estimate: ☑ Dye Estimate: ☐
Right Descending Bank: Distance (ft): Time (s):
Mid Stream: Distance (ft): 39 Time (s): 8 min 43 sec
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement: ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments:

120302 6/30/04 09:30HRS BCUT01

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N:

References

Convert Feet to Meters

0.5 ft 0.15 m

1.0 ft 0.30 m

1.5 ft 0.45 m

2.0 ft 0.60 m

2.5 ft 0.75 m

Site Information

Site #: BCUT-01 Subsegment: 120302 Date: 7/6/04 Time: 10:19 am

Waterbody: Bayou Cutoff Tapedown 1: ____ Staff Gauge 1: ____

Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____

Site Location: At Bowie Rd.

Personnel: Earles, Butler, Griffith

Type of Work: Recon ☐ Data Collection ☐

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☑			
41 – 70% ☐			
71 – 100% ☐			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 39897

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: at site BCUT-01

Water Quality Field Parameters

Time: 10:19 am Temp.(°C): ____ pH: ____ Spcond(µhmos/cm): ____

D.O.: ____ D.O. %: ____ Salinity: ____ Depth (m): ____ Secchi (in): ____

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location: ____

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: ____

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS: ☐ Cross Section GPS: ☐

Comments: ____

Site Information

Site #: BCUT02 Subsegment: 120302 Date: 6 12 04 Time: 1215
Waterbody: Bayou Cutoff Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: off of Acadia Rd
Personnel: Graff, Hughes
Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 – 10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☑			
71 – 100% ☐			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
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: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):
D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
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: ☑ Measurement Location: At bridge
Type of Measurement Manual: ☑ Fathometer ☐ Cross Section File Name: BCUT02XS
GPS Measurement: ☑ GPS SSF File Name: BCUT02-point
Site GPS: ☑ Cross Section GPS: ☐ Bfolsetrack – folder name
Comments: XS started on RDB

BCUT 02 120302 6/29/04 12:15

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N:

References

Convert Feet to Meters

0.5 ft 0.15 m
1.0 ft 0.30 m
1.5 ft 0.45 m
2.0 ft 0.60 m
2.5 ft 0.75 m

Site Information

Site #: BCUT-02 Subsegment: 120302 Date: 6 13 01 04 Time: 1015 hrs

Waterbody: Bayou Cutoff Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: At bridge off of Acadia Rd

Personnel: Griff, Hughes

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☐	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☑	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☑			
71 – 100% ☐			

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☑ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

S/N 39001

Water Quality Field Parameters

Time: 1015 hrs Temp.(°C): 26.40 pH: 7.35 Spcond(µhmos/cm): 200.5 IBATT 13.6 IBV 7.3

D.O.: 1.37 D.O. %: 17.0 Salinity: 0.09 Depth (m): 1m Secchi (in): 3"

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BCUT 02 120302 6/30/04 10:15HRS

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N:

References

Convert Feet to Meters

0.5 ft 0.15 m

1.0 ft 0.30 m

1.5 ft 0.45 m

2.0 ft 0.60 m

2.5 ft 0.75 m

Site Information

Site #: BCUT-03 Subsegment: 120302 Date: 6/29/04 Time: 1000 hrs

Waterbody: Bayou Cutoff Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: At Supercharger Lane bridge

Personnel: Hughes, Griffs

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☑	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☐	SW ☐ S ☐ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 – 10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☑			
71 – 100% ☐			

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 40010

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1

Continuous Monitor Location: On bridge at BCUT-03

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☑ Measurement Location: At bridge

Type of Measurement Manual: ☑ Fathometer ☐ Cross Section File Name: BCUT03XS

GPS Measurement: ☑ GPS SSF File Name: BFOISETRUCK → folder name

Site GPS: ☑ Cross Section GPS: ☐ BCUT03-point

Comments: XS started on LDB

BCUT 03 120302 6/29/04 10:00 HRS

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N:

References

Convert Feet to Meters

0.5 ft 0.15 m
1.0 ft 0.30 m
1.5 ft 0.45 m
2.0 ft 0.60 m
2.5 ft 0.75 m

Site Information

Site #: BCUT-03 Subsegment: 120302 Date: 6/30/04 Time: 1115 hrs
Waterbody: Bayou Cutoff Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: At Supercharger Ln
Personnel: Griffith, Hughes
Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☐	Hot >85° ☐	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☑	Warm > 75° ☑	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 – 10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☐			
71 – 100% ☑			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
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: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

S/N 39001

Water Quality Field Parameters

Time: 1115 hrs Temp.(°C): 25.76 pH: 7.34 Spcond(µhmos/cm): 168.3 IBATT 13.5 IBV 7.3
D.O.: 1.34 D.O. %: 16.2 Salinity: 0.07 Depth (m): 1 m Secchi (in): 2"

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
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: ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments:

BCUT 03 120302 6/30/04 11:15HRS

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N:

References

Convert Feet to Meters

0.5 ft 0.15 m

1.0 ft 0.30 m

1.5 ft 0.45 m

2.0 ft 0.60 m

2.5 ft 0.75 m

Site Information

Site #: BCUT-03 Subsegment: 120302 Date: 7/6/04 Time: 10:37am
Waterbody: Bayou Cutoff Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: ~~Bayou Cutoff~~ at Supercharger Lane bridge
Personnel: Earles, Butler, Griffith
Type of Work: Recon ☐ Data Collection ☐

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☑			
41 – 70% ☐			
71 – 100% ☐			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
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: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location: at site BCUT-03

Water Quality Field Parameters

Time: 10:37am Temp.(°C): pH: Spcond(µhmos/cm):
D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
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: ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments:

BCUT 03 120302 7/6/04 10:37am

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N:

References

Convert Feet to Meters

0.5 ft 0.15 m

1.0 ft 0.30 m

1.5 ft 0.45 m

2.0 ft 0.60 m

2.5 ft 0.75 m

Site Information

Site #: BCUT04 Subsegment: 120302 Date: 6/29/04 Time: 1115 hrs
Waterbody: Bayou Cutoff Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: At St Charles bridge
Personnel: Griffith, Hughes
Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 – 10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☑			
71 – 100% ☐			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
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: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):
D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
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: ☑ Measurement Location: At bridge
Type of Measurement Manual: ☑ Fathometer ☐ Cross Section File Name: BCUT04XS
GPS Measurement: ☑ GPS SSF File Name: BCUT04-point
Site GPS: ☑ Cross Section GPS: ☐ BFOISETRUCK-folder name
Comments: XS started on LDB

120302 BCUT 04 06/29/04 11:15HRS

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N:

References

Convert Feet to Meters

0.5 ft 0.15 m
1.0 ft 0.30 m
1.5 ft 0.45 m
2.0 ft 0.60 m
2.5 ft 0.75 m

Site Information

Site #: BCUT 04 Subsegment: 120302 Date: 6/30/04 Time: 1215 hrs
Waterbody: Bayou Cutoff Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: At St Charles Loop bridge
Personnel: Griff, Hughes
Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 – 10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☑			
71 – 100% ☐			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
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: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

S/N 39001 Water Quality Field Parameters IBATT 13.5 IBV 7.3
Time: 1215 hrs Temp.(°C): 25.94 pH: 7.43 Spcond(µhmos/cm): 247.2
D.O.: 0.92 D.O. %: 11.4 Salinity: 0.12 Depth (m): 1m Secchi (in): 6"

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
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: ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments:

BCUT 04 120302 06/30/04 12:15HRS

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N:

References

Convert Feet to Meters

0.5 ft 0.15 m

1.0 ft 0.30 m

1.5 ft 0.45 m

2.0 ft 0.60 m

2.5 ft 0.75 m

Site Information

Site #: BCUT-06 Subsegment: _____ Date: 7/6/04 Time: 12:01 pm

Waterbody: Bayou Cutoff Tapedown 1: _____ Staff Gauge 1: _____

Gauge Height 1: _____ Tapedown 2: _____ Staff Gauge 2: _____ Gauge Height 2: _____

Site Location: Approximately 0.5 miles Above Theriot Canal

Personnel: Earles, Butler, Griffith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☐	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☑	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☑			
41 – 70% ☐			
71 – 100% ☐			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): _____

Continuous Monitor Location: _____

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

Flow Measurement: ☐ Measurement Location: _____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: _____

Flow Estimated: ☐ Measurement Location: _____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☑ Measurement Location: at site BCUT-06

Type of Measurement Manual: ☐ Fathometer ☑ Cross Section File Name: BCUT-06 XS

GPS Measurement: ☐ GPS SSF File Name: _____

Site GPS: ☐ Cross Section GPS: ☐

Comments: _____

Site Information

Site #: BCUT-07 Subsegment: 120302 Date: 6 30 04 Time: 1225hrs

Waterbody: canal leading to cut-off section of bayou Cutoff Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: 300 yards above Bayou Folse

Personnel: Dickinson, Fontenot

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☒	Hot >85° ☒	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☐	SW ☐ S ☒ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☒	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☐			
71 – 100% ☒			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1225hrs Temp.(°C): ~~26.92~~ 28.06 pH: 6.78 Spcond(µhmos/cm): 170.1

D.O.: 1.22 D.O. %: 15.6 Salinity: 0.08 Depth (m): 0.5m Secchi (in): NA

IBV- 7.5
IBa-11.0

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BCUT-07 120302 6/30/04 12:25HRS

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ 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): _____

Equipment Used:

In Situ Probe S/N: 10808 Surveyor 4a S/N: 52702 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0

Site Information

Site #: BCUT-07 Subsegment: 120302 Date: 7/6/04 Time: 1415

Waterbody: Canal leading to cut-off section of B. Cutoff Tapedown 1: _____ Staff Gauge 1: _____

Gauge Height 1: _____ Tapedown 2: _____ Staff Gauge 2: _____ Gauge Height 2: _____

Site Location: 300 yards Above Bayou Folse

Personnel: Earles, Butler, Griffith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☐	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☑	Warm > 75° ☐	1-5 ☐	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☑	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☑			
41 – 70% ☐			
71 – 100% ☐			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: _____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): _____

Continuous Monitor Location: _____

Water Quality Field Parameters

Time: _____ Temp.(°C): _____ pH: _____ Spcond(µhmos/cm): _____

D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

Flow Measurement: ☐ Measurement Location: _____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: _____

Flow Estimated: ☐ Measurement Location: _____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☑ Measurement Location: At site

Type of Measurement Manual: ☐ Fathometer ☑ Cross Section File Name: BCUT-07

GPS Measurement: ☐ GPS SSF File Name: _____

Site GPS: ☐ Cross Section GPS: ☐

Comments: _____

BCUT -07 120302 7/6/04 14:15

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time: Temp.(C): pH: Spcond(hmos/cm):
D.O.: D.O. %: Salinity: Depth (m):

Time: Temp.(C): pH: Spcond(hmos/cm):
D.O.: D.O. %: Salinity: Depth (m):

Time: Temp.(C): pH: Spcond(hmos/cm):
D.O.: D.O. %: Salinity: Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit
AquaCalc S/N Fathometer: Laser Gun
Camera S/N:

References

Convert Feet to Meters

0.5 ft 0.15 m
1.0 ft 0.30 m
1.5 ft 0.45 m
2.0 ft 0.60 m
2.5 ft 0.75 m

Field Site Survey.doc

Site Information

Site #: BF01-01 Subsegment: 120302 Date: 6/29/04 Time: 9:45

Waterbody: Bayou Folse Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: Appox. .5 miles above Company Canal

Personnel: Jones, Brignac

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☑	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☐	SW ☐ S ☐ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☑			
41 – 70% ☐			
71 – 100% ☐			

Stream Characteristics: Flowing: ☑ Measurable Flow: ☑

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 41500

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1m

Continuous Monitor Location: At site

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BF01-01 120302 6/29/04 9:45

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 ☐
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 ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ 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):

Equipment Used:
In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Site Information

Site #: BFO1-01 Subsegment: 120302 Date: 6/30/04 Time: 1110

Waterbody: Bayou Folse Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: Approx. .5 mi. above Company Canal

Personnel: Jones, Brignac

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☑			
71 – 100% ☐			

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1110 Temp.(°C): 27.56 pH: 6.89 Spcond(µhmos/cm): 218.4

D.O.: .52 D.O. %: 6.6 Salinity: .10 Depth (m): 1m Secchi (in): 18

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BF01 -01 1203026/30/04 11:10

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ 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):	

Equipment Used:

In Situ Probe S/N: 40803 Surveyor 4a S/N: 52701 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: BFOL-01 Subsegment: 120302 Date: 7/6/04 Time: 2:51 pm
Waterbody: Bayou Folse Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: Approx. 0.5 miles Above Company Canal
Personnel: Earles, Butler, Griffith
Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☐	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☑	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 – 10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☑			
41 – 70% ☐			
71 – 100% ☐			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
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: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 41500
Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: 2:51 pm Temp.(°C): pH: Spcond(µhmos/cm):
D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
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: ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments:

Site Information

Site #: BFOL-02 Subsegment: 120302 Date: 6/29/04 Time: 1050hrs

Waterbody: Bayou Folse Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: Approximately midway between Bayou Du Mar cut off canal and the canal leading to the Cut-off Section of Bayou Cutoff

Personnel: Dickinson, Fontenot

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:	**Temperature (°F):**	**Wind (mph):**	**Wind Direction:**
Clear ☒	Hot >85° ☒	<1 ☒	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☐	SW ☐ S ☒ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☒			
71 – 100% ☐			

Stream Characteristics: Flowing: ☒ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☒ Continuous Monitor S/N: 40811

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1.0m

Continuous Monitor Location: At site

Water Quality Field Parameters

Time: **Temp.(°C):** **pH:** **Spcond(µhmos/cm):**

D.O.: **D.O. %:** **Salinity:** **Depth (m):** **Secchi (in):**

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

BFOL 02 120302 6/29/04 10:50 HRS

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ **Bridge Safe:** ☐ Bridge Width: _____ 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):**	

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: BFOL-02 Subsegment: 120302 Date: 6/30/04 Time: 1347 hrs

Waterbody: Bayou Folse Tapedown 1: ____ Staff Gauge 1: ____

Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____

Site Location: Midway between Bayou DuMar Cutoff canal and the canal leading to the cutoff section of Bayou Cutoff

Personnel: Fontenot, Dickinson

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	**Temperature (°F):**	**Wind (mph):**	**Wind Direction:**
Clear ☑	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☐			
71 – 100% ☑			

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

Time: 1347hrs **Temp.(°C):** 27.55 **pH:** 6.85 **Spcond(µhmos/cm):** 188.6

D.O.: 1.59 **D.O. %:** 20.2 **Salinity:** 0.09 **Depth (m):** 0.5m **Secchi (in):** NA

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location: ____

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: ____

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS: ☐ Cross Section GPS: ☐

Comments: ____

BFOL 02 120302 6/30/04 13:47HRS

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ **Bridge Safe:** ☐ Bridge Width: _____ 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):**	

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc

Site Information

Site #: BFOL-02 Subsegment: 120302 Date: 7/8/04 Time: 2:22 pm

Waterbody: Bayou Folse Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: Approx. midway b/w B. DuMar cut-off canal & the canal leading to the cutoff section of B. Cutoff

Personnel: Earles, Butler, Griffith

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☐	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☑	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☑			
71 – 100% ☐			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 40811

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 2:22pm Temp.(°C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

Site Information

Site #: BFOL-03 Subsegment: 120302 Date: 6/29/04 Time: 1117 hrs.

Waterbody: Bayou Folse Tapedown 1: ____ Staff Gauge 1: ____

Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____

Site Location: Approximately 0.5 mile below Theriot canal

Personnel: Fontenot, Dickinson

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:	**Temperature (°F):**	**Wind (mph):**	**Wind Direction:**
Clear ☒	Hot >85° ☒	<1 ☒	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☐	SW ☐ S ☒ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 – 10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☒			
71 – 100% ☐			

Stream Characteristics: Flowing: ☒ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☒ Continuous Monitor S/N: 400006

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ~~0.0m~~ 0.5m

Continuous Monitor Location: At site

Water Quality Field Parameters

Time: ____ **Temp.(°C):** ____ **pH:** ____ **Spcond(µhmos/cm):** ____

D.O.: ____ **D.O. %:** ____ **Salinity:** ____ **Depth (m):** ____ **Secchi (in):** ____

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☒ Measurement Location: ~~BFOL-03 XS~~ ~~Point~~ At site

Type of Measurement Manual: ☐ Fathometer ☒ Cross Section File Name: BFOL-03 XS

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS: ☐ Cross Section GPS: ☐

Comments: ____

BFOL 03 120302 6/29/04 11:17HRS

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 ☐
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 ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ **Bridge Safe:** ☐ Bridge Width: _____ 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):**

Equipment Used:
In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0

Site Information

Site #: BFOL-03 Subsegment: 120302 Date: 6/30/04 Time: 1100hrs

Waterbody: Bayou Folse Tapedown 1: ____ Staff Gauge 1: ____

Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____

Site Location: 0.5 Miles below Theriot Canal

Personnel: Dickinson, Fontenot

Type of Work: Recon ☐ Data Collection ☒

Weather Conditions:	**Temperature (°F):**	**Wind (mph):**	**Wind Direction:**
Clear ☒	Hot >85° ☒	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☒	SW ☐ S ☒ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 – 10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☐			
71 – 100% ☒			

Stream Characteristics: Flowing: ☒ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☒ Tidally Influenced: ☒

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: ____

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): ____

Continuous Monitor Location: ____

Water Quality Field Parameters

Time: 1100hrs **Temp.(°C):** 26.38 **pH:** 6.86 **Spcond(µhmos/cm):** 189.2 IBV - 7.6 IBatt - 11.0

D.O.: 1.92 **D.O. %:** 23.9 **Salinity:** 0.09 **Depth (m):** 0.5m **Secchi (in):** 12.0 in

Flow Measurement: ☐ Measurement Location: ____

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name: ____

Flow Estimated: ☐ Measurement Location: ____

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location: ____

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name: ____

GPS Measurement: ☐ GPS SSF File Name: ____

Site GPS: ☐ Cross Section GPS: ☐

Comments: ____

BFOL 03 120302 6/30/04 11:00HRS

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ **Bridge Safe:** ☐ Bridge Width: _____ 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):**

Equipment Used:

In Situ Probe S/N: 40808 Surveyor 4a S/N: 52702 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0

Site Information

Site #: BFOL-03 Subsegment: 120302 Date: 8/16/04 Time: 12:30 pm
Waterbody: Bayou Folse Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: 0.5 miles below Theriot Canal
Personnel: Earles, Butler, Griffith
Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☑			
41 – 70% ☐			
71 – 100% ☐			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
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: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 40006
Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location: At Site BFOL-03

Water Quality Field Parameters

Time: 12:30 pm Temp.(°C): pH: Spcond(µhmos/cm):
D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
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: ☑ Measurement Location: At site
Type of Measurement Manual: ☐ Fathometer ☑ Cross Section File Name: BFOL-03 XS
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments:

Site Information

Site #: CC-01 Subsegment: 120302 Date: 6/28/04 Time: 9:30

Waterbody: Company Canal Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: Midway b/w Fort Argent Pumpstation & Old Oilfield Canal

Personnel: Jones, Brignac

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☑	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☐	SW ☐ S ☐ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 – 10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☑			
41 – 70% ☐			
71 – 100% ☐			

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 41501

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1m

Continuous Monitor Location: at site

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

CC-01 120302 6/29/04 9:30

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~~ HARD Silt ☑ Sand/Silt ☐ Rock/Gravel/Silt ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ 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): _____

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Site Information

Site #: C001 Subsegment: 120302 Date: 6/30/04 Time: 1130

Waterbody: Company Canal Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: Midway B/4 Forty Arpent Pumpstation & old oilfield canal

Personnel: Jones; Brignac.

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☑			
71 – 100% ☐			

Stream Characteristics: Flowing: ☑ Measurable Flow: ☑

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1130 Temp.(°C): 29.02 pH: 7.36 Spcond(µhmos/cm): 201.5

D.O.: 5.37 D.O. %: 70.1 Salinity: 0.09 Depth (m): 1m Secchi (in): 18

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

CC-01 120302 6/ 30/04 11:30

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ 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): _____

Equipment Used:

In Situ Probe S/N: 40803 Surveyor 4a S/N: 52701 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Site Information

Site #: CC-01 Subsegment: 120302 Date: 7/16/04 Time: 1240

Waterbody: Company Canal Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: Approx midway b/t Forty Arpent Pi Station & oil Field Canal

Personnel: Boffy, Sawyer, Schwartz

Type of Work: Recon ☐ Data Collection ☐

Weather Conditions:	**Temperature** (°F):	**Wind** (mph):	**Wind Direction:**
Clear ☐	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☑	Warm > 75° ☐	1-5 ☐	SW ☐ S ☐ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☑	E ☑ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☐			
71 – 100% ☐			

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑

Wind Influence: ☑ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 40501

Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: **Temp.(°C):** **pH:** **Spcond(µhmos/cm):**

D.O.: **D.O. %:** **Salinity:** **Depth (m):** **Secchi (in):**

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

CC-01 120302 7/6/04 12:40

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ **Bridge Safe:** ☐ Bridge Width: _____ 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):**	

Equipment Used:

In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

2.0 ft ≅ 0.60 m

2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0

Site Information

Site #: CC-02 Subsegment: 120302 Date: 6/29/04 Time: 9:15 am

Waterbody: Company Canal Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: Midway between Bayou L'Eau Bleu + Lake Long Inlet

Personnel: Corey Schwartzenburg, James Earles

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot > 85° ☑	<1 ☐	NW ☐ N ☐ NE ☑
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 – 10% ☑	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☐			
71 – 100% ☐			

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☑ Continuous Monitor S/N: 40810

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1 m

Continuous Monitor Location: at Site CC-02

Water Quality Field Parameters

Time: 9:18 am Temp.(°C): pH: Spcond(µhmos/cm):

D.O.: D.O. %: Salinity: Depth (m): 1 m Secchi (in):

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☑ Measurement Location: at Site CC-02

Type of Measurement Manual: ☑ Fathometer ☑ Cross Section File Name: CC-02 XS

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

CC-02 120302 6/29/04 9:15am

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 ☐
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 ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ 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): _____

Equipment Used:
In Situ Probe S/N: _____ Surveyor 4a S/N: _____ GPS Unit _____
AquaCalc S/N _____ Fathometer: 11950 Laser Gun Gun 1
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0
Revised 3/25/03

Site Information

Site #: CC-02 Subsegment: 120302 Date: 6/30/04 Time: 1145 hrs

Waterbody: Company Canal Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: Midway b/t Bayou L'Eau + Lake Long Inlet

Personnel: Schwartz, Earles

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☑	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☐			
71 – 100% ☐			

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☑ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1145 hrs Temp.(°C): 28.67 pH: 7.57 Spcond(µhmos/cm): 184.0

D.O.: 4.87 D.O. %: 63.1 Salinity: 0.08 Depth (m): 1m Secchi (in): 12in

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

CC-02 120302 6/30/04 11:45 HRS

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 ☐
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 ☐ Bridge Board ☐ Boat Board ☐
Measurement Location: _____
Cross Section Location: _____
Continuous Monitor Deployment: _____
Continuous Monitor Location: _____
Boat Accessible: ☐ Nearest Launch: _____
Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ 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):	

Equipment Used:
In Situ Probe S/N: 39003 Surveyor 4a S/N: 52766 GPS Unit _____
AquaCalc S/N _____ Fathometer: _____ Laser Gun _____
Camera S/N: _____

References
Convert Feet to Meters
0.5 ft ≅ 0.15 m
1.0 ft ≅ 0.30 m
1.5 ft ≅ 0.45 m
2.0 ft ≅ 0.60 m
2.5 ft ≅ 0.75 m

Field Site Survey.doc
Revision 2.0

Site Information

Site: C02 Subsegment: 120302 Date: 7/6/04 Time: 1005
Waterbody: Company Canal Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: Midway Jctn. Ulcan Bleu & Lake Long
Personnel: Boffy, Savant, Swartz.
Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☐	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☑			
41 – 70% ☐			
71 – 100% ☐			

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☑
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
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: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N: 40810
Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: Temp.(°C): pH: Spcond(µhmos/cm):
D.O.: D.O. %: Salinity: Depth (m): Secchi (in):

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
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: ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments:

CC-02 120302 7/6/04 10:05 HRS

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N:

References

Convert Feet to Meters

0.5 ft	0.15 m
1.0 ft	0.30 m
1.5 ft	0.45 m
2.0 ft	0.60 m
2.5 ft	0.75 m

Site Information

Site #: AC-01 Subsegment: 120302 Date: 6/29/04 Time: 1145

Waterbody: Arpent Canal Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: At Ledet St.

Personnel: Griffith, Hughes

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 – 10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☑			
71 – 100% ☐			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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:** ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: **Temp.(°C):** **pH:** **Spcond(µhmos/cm):**

D.O.: **D.O. %:** **Salinity:** **Depth (m):** **Secchi (in):**

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☑ Measurement Location: At bridge on Ledet St

Type of Measurement Manual: ☑ Fathometer ☐ Cross Section File Name: AC01XS

GPS Measurement: ☑ GPS SSF File Name: Bfolsetrack - folder name

Site GPS: ☑ Cross Section GPS: ☐ AC01 - point

Comments: XS started on LDB

AC-01 120302 6/29/04 11:45

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N:

References

Convert Feet to Meters

0.5 ft 0.15 m
1.0 ft 0.30 m
1.5 ft 0.45 m
2.0 ft 0.60 m
2.5 ft 0.75 m

Site Information

Site #: AC-01 Subsegment: 120302 Date: 6/30/04 Time: 1045
Waterbody: Arpent Canal Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: At Ledet Bridge
Personnel: Griffith, Hughes
Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☐	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☑	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 –10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☑			
71 – 100% ☐			

Stream Characteristics: Flowing: ☐ Measurable Flow: ☐
Flow Direction Upstream ☐ Downstream ☐ Tidally Influenced: ☐
Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐
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: ☐
Continuous Monitor Deployed: ☐ Continuous Monitor S/N:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

S/N 39001 Water Quality Field Parameters IBATT 13.6 IBV 7.3
Time: 1045 Temp.(°C): 26.09 pH: 7.51 Spcond(µhmos/cm): 210.0
D.O.: 1.66 D.O. %: 20.4 Salinity: 0.1 Depth (m): .30m Secchi (in): 1 inch

Flow Measurement: ☐ Measurement Location:
Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐
AquaCalc File Name:
Flow Estimated: ☐ Measurement Location:
Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐
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: ☐ Measurement Location:
Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments:

AC-01 120302 6/30/04 10:45

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 ☐

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch:

Bridge Bridge Safe: Bridge Width: Bridge Height:

Profiling Measurements:

Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):
Time:	Temp.(C):	pH:	Spcond(hmos/cm):
D.O.:	D.O. %:	Salinity:	Depth (m):

Equipment Used:

In Situ Probe S/N: Surveyor 4a S/N: GPS Unit

AquaCalc S/N Fathometer: Laser Gun

Camera S/N:

References

Convert Feet to Meters

0.5 ft 0.15 m

1.0 ft 0.30 m

1.5 ft 0.45 m

2.0 ft 0.60 m

2.5 ft 0.75 m

Site Information

Site #: AC 02 Subsegment: 120302 Date: 6/30/04 Time: 1145

Waterbody: Forty Arpent Canal Tapedown 1: Staff Gauge 1:

Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location: Upstream of Pumpstation

Personnel: Jones, Brignac

Type of Work: Recon ☐ Data Collection ☑

Weather Conditions:	Temperature (°F):	Wind (mph):	Wind Direction:
Clear ☑	Hot >85° ☑	<1 ☐	NW ☐ N ☐ NE ☐
Drizzle/Light Rain ☐	Warm > 75° ☐	1-5 ☑	SW ☐ S ☑ SE ☐
Showers ☐	Mild > 65° ☐	6-10 ☐	E ☐ W ☐
Cloud Cover:	Cool > 60° ☐	11-15 ☐	Variable ☐
0 – 10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☑			
71 – 100% ☐			

Stream Characteristics: Flowing: ☑ Measurable Flow: ☐

Flow Direction Upstream ☐ Downstream ☑ Tidally Influenced: ☐

Wind Influence: ☐ Wind Influence Direction: Upstream ☐ Downstream ☐

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: ☐

Continuous Monitor Deployed: ☐ Continuous Monitor S/N:

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):

Continuous Monitor Location:

Water Quality Field Parameters

Time: 1145 Temp.(°C): 26.56 pH: 6.99 Spcond(µhmos/cm): 316.2

D.O.: 1.43 D.O. %: 17.9 Salinity: .15 Depth (m): 1m Secchi (in): 4

Flow Measurement: ☐ Measurement Location:

Type of Measurement: Wading ☐ Bridge Board ☐ Boat Board ☐

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location:

Using Discharge Equipment: ☐ Type: Wading ☐ Bridge Board ☐ Boat Board ☐

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: ☐ Measurement Location:

Type of Measurement Manual: ☐ Fathometer ☐ Cross Section File Name:

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments:

AC - 02 120302 6/30/04 11:45

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 ☐

Control Structure Present: ☑ Location: Pumpstation

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 ☐ Bridge Board ☐ Boat Board ☐

Measurement Location: _____

Cross Section Location: _____

Continuous Monitor Deployment: _____

Continuous Monitor Location: _____

Boat Accessible: ☐ Nearest Launch: _____

Bridge ☐ Bridge Safe: ☐ Bridge Width: _____ 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): _____

Equipment Used:

In Situ Probe S/N: 40863 Surveyor 4a S/N: 52701 GPS Unit _____

AquaCalc S/N _____ Fathometer: _____ Laser Gun _____

Camera S/N: _____

References

Convert Feet to Meters

0.5 ft ≅ 0.15 m

1.0 ft ≅ 0.30 m

1.5 ft ≅ 0.45 m

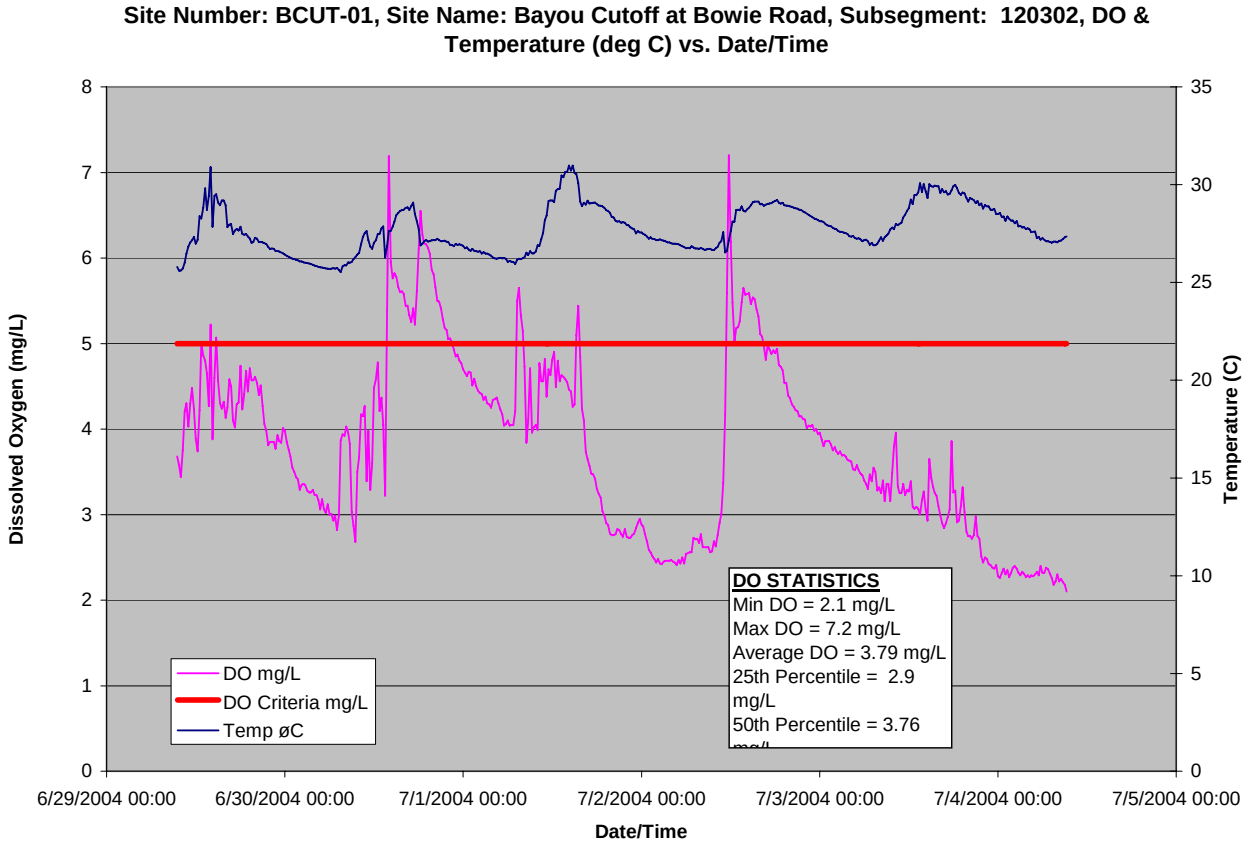
2.0 ft ≅ 0.60 m

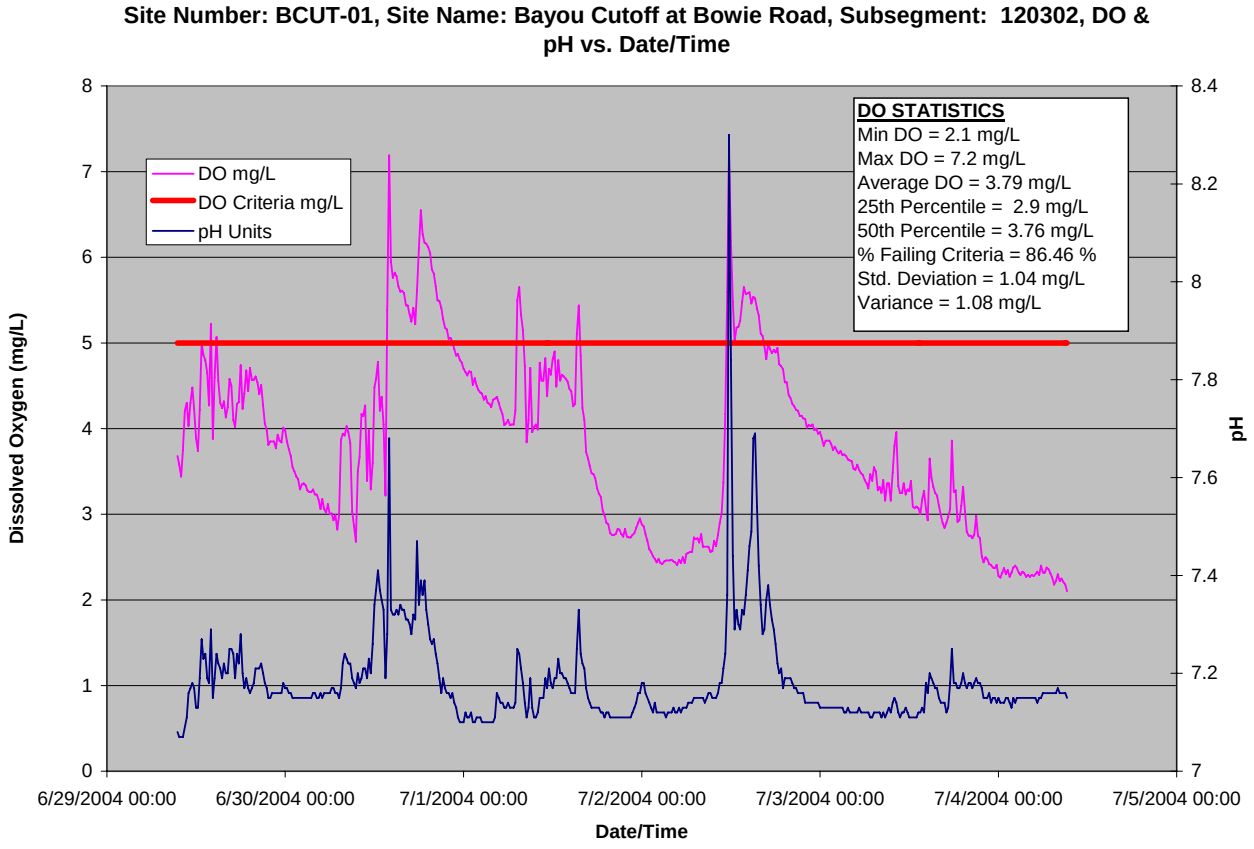
2.5 ft ≅ 0.75 m

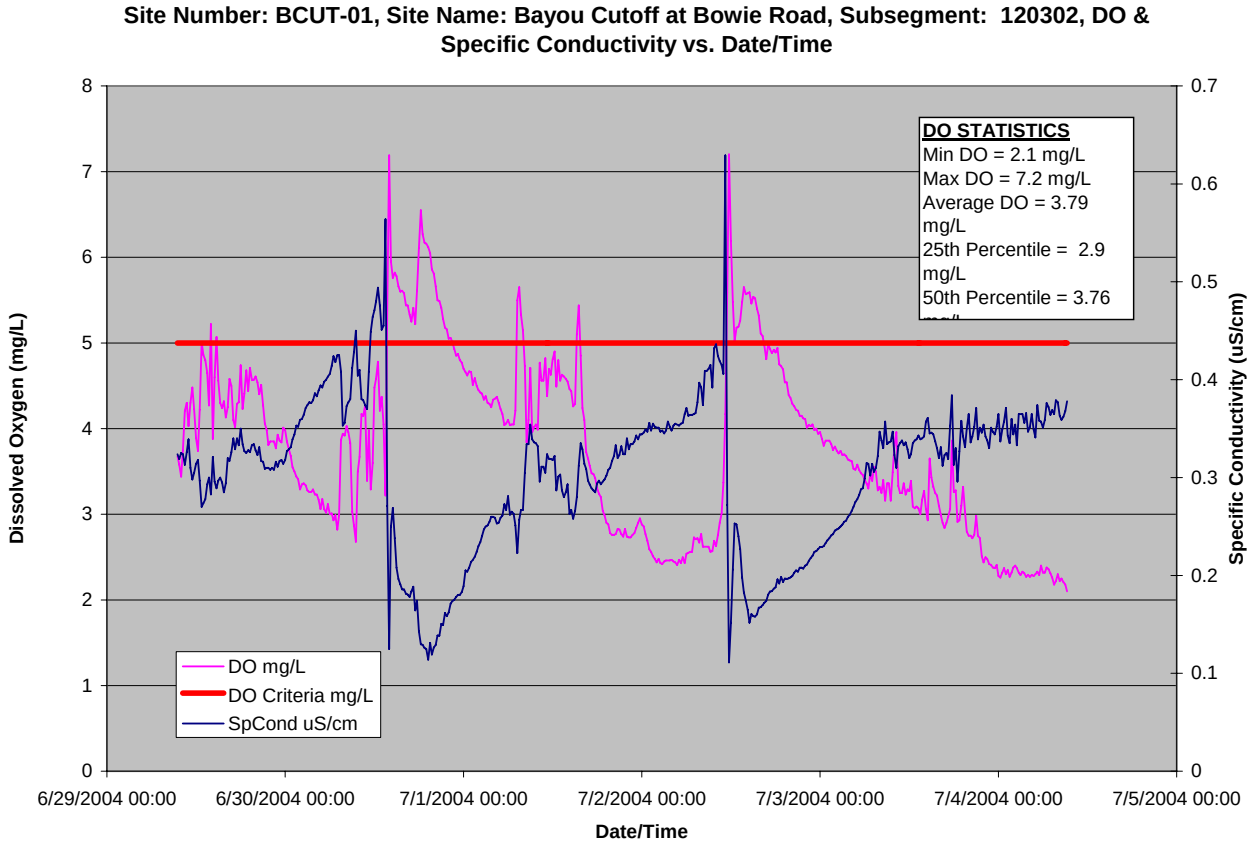
Appendix F4 – Continuous Monitor

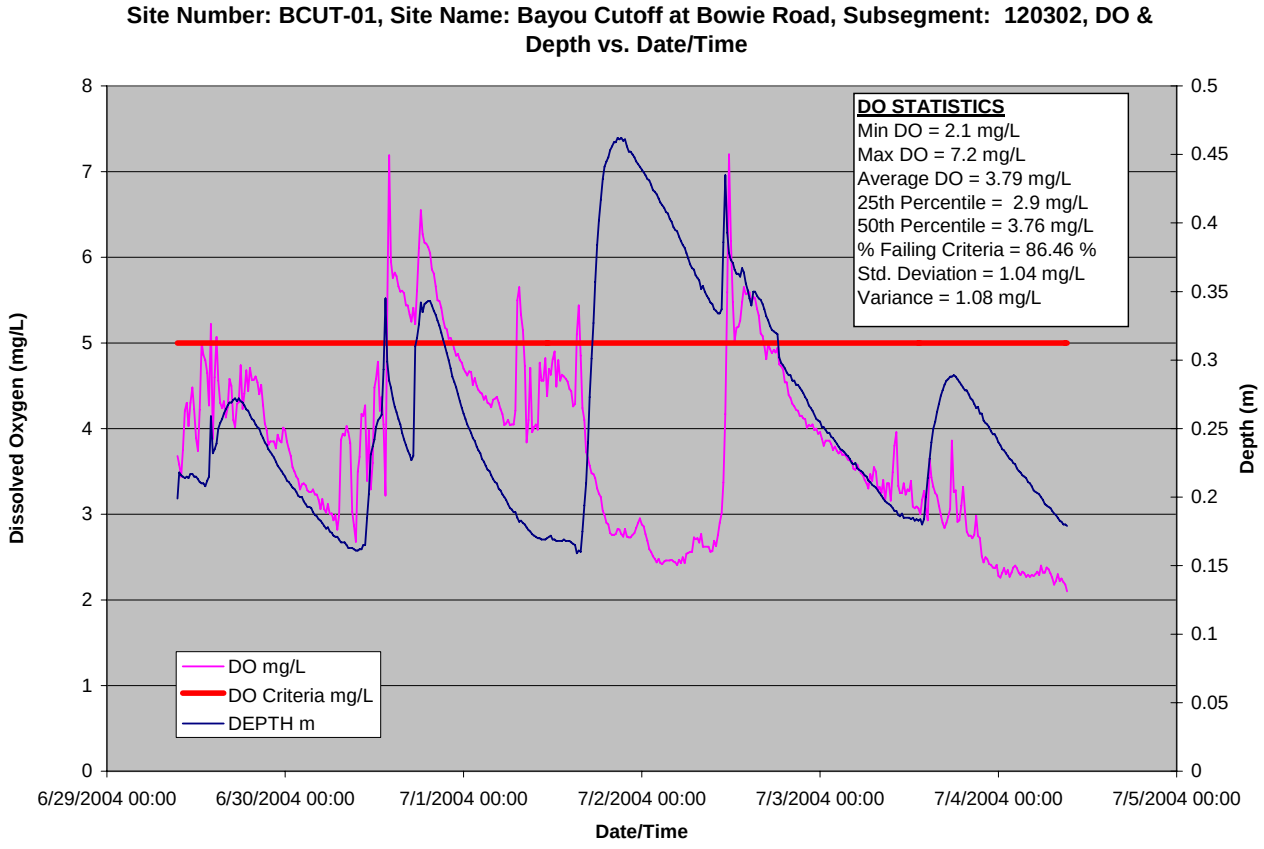
Continuous monitor min-avg-max for 24 hrs prior to sample time

SITE NO.	Min Temp	Avg Temp	Max Temp	Min SpCon	Avg SpCon	Max SpCon	Min pH	Max pH	Min DO	Avg DO	Max DO	Time
BCUT-01	25.5	26.9	30.9	270	341	450	7.07	7.29	2.68	3.90	5.22	6/29/04 9:30 to 6/30/04 9:30
BCUT-02												
AC-01												
BCUT-03	25.5	25.95	26.9	131	151	185	6.90	6.95	1.78	2.40	3.43	
BCUT-04												
BFOL-03	25.9	26.3	27.3	189	197	211	6.72	6.89	0.48	0.83	1.27	
BFOL-02	26.2	26.59	27.3	161	177	200	6.73	6.81	0.92	1.44	2.46	
BFOL-01	27.0	27.91	29.1	217	228	238	6.71	6.83	0.07	0.88	2.17	


Site Number: BCUT-01, Site Name: Bayou Cutoff at Bowie Road, Subsegment: 120302, DO & Temperature (deg C) vs. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
DO mg/L
DO Criteria mg/L
Temp øC
DO STATISTICS
Min DO = 2.1 mg/L
Max DO = 7.2 mg/L
Average DO = 3.79 mg/L
25th Percentile = 2.9 mg/L
50th Percentile = 3.76


Site Number: BCUT-01, Site Name: Bayou Cutoff at Bowie Road, Subsegment: 120302, DO & pH vs. Date/Time
DO mg/L
DO Criteria mg/L
pH Units
DO STATISTICS
Min DO = 2.1 mg/L
Max DO = 7.2 mg/L
Average DO = 3.79 mg/L
25th Percentile = 2.9 mg/L
50th Percentile = 3.76 mg/L
% Failing Criteria = 86.46 %
Std. Deviation = 1.04 mg/L
Variance = 1.08 mg/L
Dissolved Oxygen (mg/L)
pH
Date/Time
0
1
2
3
4
5
6
7
8
7
7.2
7.4
7.6
7.8
8
8.2
8.4
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00


Site Number: BCUT-01, Site Name: Bayou Cutoff at Bowie Road, Subsegment: 120302, DO & Specific Conductivity vs. Date/Time
DO STATISTICS
Min DO = 2.1 mg/L
Max DO = 7.2 mg/L
Average DO = 3.79 mg/L
25th Percentile = 2.9 mg/L
50th Percentile = 3.76
DO mg/L
DO Criteria mg/L
SpCond uS/cm
Dissolved Oxygen (mg/L)
Specific Conductivity (uS/cm)
Date/Time
0
1
2
3
4
5
6
7
8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00


Site Number: BCUT-01, Site Name: Bayou Cutoff at Bowie Road, Subsegment: 120302, DO & Depth vs. Date/Time
DO STATISTICS
Min DO = 2.1 mg/L
Max DO = 7.2 mg/L
Average DO = 3.79 mg/L
25th Percentile = 2.9 mg/L
50th Percentile = 3.76 mg/L
% Failing Criteria = 86.46 %
Std. Deviation = 1.04 mg/L
Variance = 1.08 mg/L
DO mg/L
DO Criteria mg/L
DEPTH m
Dissolved Oxygen (mg/L)
Depth (m)
Date/Time
0
1
2
3
4
5
6
7
8
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00

Bayou Cutoff Site BCUT-01 Continuous Monitoring Data

Date_ Time	Date+Time	Temp	pH	SpCond	DEPTH		DO PERCENT			DO	TDS	iBatt	CIRC	Is DO < Criteria	DO Criteria
MMDDYY	HHMM	MMDDYYYY HHMM			øC	Units	uS/cm	m	Sat	mg/L	mg/L	Volts		5 mg/L	
6/29/2004	9:30	6/29/2004 09:30	25.8	7.08	0.324	0.199	45.2	3.68		12		1	5		
6/29/2004	9:45	6/29/2004 09:45	25.6	7.07	0.319	0.218	43.8	3.58		12.1		1	5		
6/29/2004	10:00	6/29/2004 10:00	25.61	7.07	0.325	0.216	42.2	3.44		12		1	5		
6/29/2004	10:15	6/29/2004 10:15	25.7	7.07	0.324	0.215	46.1	3.75		12		1	5		
6/29/2004	10:30	6/29/2004 10:30	26.01	7.09	0.313	0.214	51.9	4.21		11.9		1	5		
6/29/2004	10:45	6/29/2004 10:45	26.47	7.11	0.326	0.215	53.5	4.3		12		1	5		
6/29/2004	11:00	6/29/2004 11:00	26.83	7.16	0.339	0.214	50.5	4.03		11.9		1	5		
6/29/2004	11:15	6/29/2004 11:15	27.05	7.17	0.31	0.217	54	4.3		11.9		1	5		
6/29/2004	11:30	6/29/2004 11:30	27.15	7.18	0.298	0.217	56.4	4.48		12		1	5		
6/29/2004	11:45	6/29/2004 11:45	27.33	7.17	0.305	0.215	53.5	4.23		11.9		1	5		
6/29/2004	12:00	6/29/2004 12:00	26.99	7.13	0.314	0.215	48.9	3.89		12		1	5		
6/29/2004	12:15	6/29/2004 12:15	27.18	7.13	0.318	0.213	47.2	3.74		11.9		1	5		
6/29/2004	12:30	6/29/2004 12:30	28.39	7.19	0.297	0.211	54.3	4.22		12		1	5		
6/29/2004	12:45	6/29/2004 12:45	28.27	7.27	0.27	0.21	64.4	5.01		12		0	5		
6/29/2004	13:00	6/29/2004 13:00	28.81	7.23	0.274	0.21	63.1	4.86		12		1	5		
6/29/2004	13:15	6/29/2004 13:15	29.81	7.24	0.278	0.208	63.4	4.8		11.9		1	5		
6/29/2004	13:30	6/29/2004 13:30	28.71	7.19	0.293	0.212	60.2	4.65		11.9		1	5		
6/29/2004	13:45	6/29/2004 13:45	29.43	7.18	0.3	0.215	56	4.27		11.9		1	5		
6/29/2004	14:00	6/29/2004 14:00	30.9	7.29	0.283	0.259	70.3	5.22		11.9		0	5		
6/29/2004	14:15	6/29/2004 14:15	27.84	7.15	0.321	0.232	49.4	3.88		11.9		1	5		
6/29/2004	14:30	6/29/2004 14:30	29.43	7.19	0.296	0.235	60.3	4.6		11.9		1	5		
6/29/2004	14:45	6/29/2004 14:45	29.51	7.24	0.289	0.239	66.6	5.07		11.9		0	5		
6/29/2004	15:00	6/29/2004 15:00	29.09	7.22	0.297	0.25	59.5	4.56		11.8		1	5		
6/29/2004	15:15	6/29/2004 15:15	28.95	7.21	0.3	0.254	56	4.3		11.9		1	5		
6/29/2004	15:30	6/29/2004 15:30	29.19	7.19	0.295	0.257	55.4	4.24		11.9		1	5		
6/29/2004	15:45	6/29/2004 15:45	29.19	7.22	0.285	0.261	56.4	4.32		11.8		1	5		
6/29/2004	16:00	6/29/2004 16:00	28.94	7.2	0.294	0.264	53.7	4.13		11.9		1	5		
6/29/2004	16:15	6/29/2004 16:15	27.83	7.2	0.32	0.267	54.2	4.25		11.8		1	5		
6/29/2004	16:30	6/29/2004 16:30	27.96	7.25	0.317	0.269	58.5	4.58		11.8		1	5		
6/29/2004	16:45	6/29/2004 16:45	27.98	7.25	0.326	0.269	57.6	4.5		11.8		1	5		

6/29/2004	17:00	6/29/2004	17:00	27.49	7.24	0.34	0.271	51.9	4.1	11.8	1	5
6/29/2004	17:15	6/29/2004	17:15	27.65	7.19	0.329	0.272	51.1	4.02	11.8	1	5
6/29/2004	17:30	6/29/2004	17:30	27.73	7.24	0.34	0.27	54.6	4.29	11.8	1	5
6/29/2004	17:45	6/29/2004	17:45	27.65	7.22	0.333	0.272	54.8	4.31	11.8	1	5
6/29/2004	18:00	6/29/2004	18:00	27.85	7.28	0.35	0.27	60.5	4.74	11.8	1	5
6/29/2004	18:15	6/29/2004	18:15	27.49	7.2	0.334	0.269	53.7	4.23	11.8	1	5
6/29/2004	18:30	6/29/2004	18:30	27.44	7.17	0.327	0.267	55.8	4.41	11.8	1	5
6/29/2004	18:45	6/29/2004	18:45	27.47	7.19	0.325	0.264	59.4	4.68	11.8	1	5
6/29/2004	19:00	6/29/2004	19:00	27.36	7.17	0.328	0.263	56.2	4.44	11.8	1	5
6/29/2004	19:15	6/29/2004	19:15	27.25	7.16	0.326	0.26	59.5	4.71	11.8	1	5
6/29/2004	19:30	6/29/2004	19:30	27.02	7.17	0.333	0.257	57.5	4.57	11.8	1	5
6/29/2004	19:45	6/29/2004	19:45	27.07	7.18	0.334	0.256	57.5	4.57	11.8	1	5
6/29/2004	20:00	6/29/2004	20:00	27.28	7.21	0.328	0.253	58.2	4.61	11.8	1	5
6/29/2004	20:15	6/29/2004	20:15	27.23	7.21	0.323	0.251	57.2	4.54	11.8	1	5
6/29/2004	20:30	6/29/2004	20:30	27.06	7.21	0.331	0.25	55.3	4.4	11.8	1	5
6/29/2004	20:45	6/29/2004	20:45	27.07	7.22	0.317	0.246	56.7	4.51	11.8	1	5
6/29/2004	21:00	6/29/2004	21:00	27.05	7.2	0.316	0.243	53.7	4.27	11.8	1	5
6/29/2004	21:15	6/29/2004	21:15	27.01	7.18	0.309	0.24	51	4.06	11.8	1	5
6/29/2004	21:30	6/29/2004	21:30	26.96	7.17	0.31	0.238	50	3.98	11.8	1	5
6/29/2004	21:45	6/29/2004	21:45	26.82	7.15	0.31	0.235	47.7	3.81	11.8	1	5
6/29/2004	22:00	6/29/2004	22:00	26.71	7.15	0.308	0.233	48.2	3.85	11.8	1	5
6/29/2004	22:15	6/29/2004	22:15	26.74	7.16	0.31	0.231	48.2	3.85	11.8	1	5
6/29/2004	22:30	6/29/2004	22:30	26.73	7.16	0.308	0.229	48.2	3.85	11.8	1	5
6/29/2004	22:45	6/29/2004	22:45	26.61	7.16	0.316	0.226	47	3.77	11.7	1	5
6/29/2004	23:00	6/29/2004	23:00	26.61	7.16	0.311	0.223	49.1	3.93	11.8	1	5
6/29/2004	23:15	6/29/2004	23:15	26.58	7.16	0.317	0.221	48.2	3.86	11.8	1	5
6/29/2004	23:30	6/29/2004	23:30	26.53	7.16	0.318	0.219	47.9	3.84	11.8	1	5
6/29/2004	23:45	6/29/2004	23:45	26.49	7.18	0.314	0.217	49.9	4.01	11.7	1	5
6/30/2004	0:00	6/30/2004	00:00	26.43	7.17	0.318	0.215	49.5	3.98	11.8	1	5
6/30/2004	0:15	6/30/2004	00:15	26.36	7.17	0.327	0.212	47.8	3.85	11.7	1	5
6/30/2004	0:30	6/30/2004	00:30	26.31	7.16	0.329	0.211	46.6	3.76	11.8	1	5
6/30/2004	0:45	6/30/2004	00:45	26.26	7.16	0.331	0.209	45.7	3.68	11.8	1	5
6/30/2004	1:00	6/30/2004	01:00	26.22	7.15	0.339	0.207	44	3.55	11.8	1	5

6/30/2004	1:15	6/30/2004 01:15	26.2	7.15	0.344	0.206	43.4	3.5	11.8	1	5
6/30/2004	1:30	6/30/2004 01:30	26.16	7.15	0.353	0.204	42.5	3.44	11.8	1	5
6/30/2004	1:45	6/30/2004 01:45	26.13	7.15	0.352	0.201	42.2	3.41	11.8	1	5
6/30/2004	2:00	6/30/2004 02:00	26.07	7.15	0.359	0.2	40.6	3.29	11.7	1	5
6/30/2004	2:15	6/30/2004 02:15	26.07	7.15	0.36	0.2	41.4	3.35	11.8	1	5
6/30/2004	2:30	6/30/2004 02:30	26.03	7.15	0.364	0.197	41.5	3.36	11.7	1	5
6/30/2004	2:45	6/30/2004 02:45	26.01	7.15	0.371	0.195	41.3	3.34	11.7	1	5
6/30/2004	3:00	6/30/2004 03:00	25.99	7.15	0.374	0.193	40.5	3.28	11.7	1	5
6/30/2004	3:15	6/30/2004 03:15	25.97	7.15	0.377	0.193	40.2	3.26	11.7	1	5
6/30/2004	3:30	6/30/2004 03:30	25.94	7.15	0.376	0.192	40.2	3.26	11.7	1	5
6/30/2004	3:45	6/30/2004 03:45	25.9	7.16	0.379	0.189	40.5	3.29	11.7	1	5
6/30/2004	4:00	6/30/2004 04:00	25.86	7.16	0.386	0.187	39.8	3.23	11.7	1	5
6/30/2004	4:15	6/30/2004 04:15	25.83	7.15	0.383	0.186	39.8	3.23	11.7	1	5
6/30/2004	4:30	6/30/2004 04:30	25.8	7.15	0.389	0.184	39	3.17	11.6	1	5
6/30/2004	4:45	6/30/2004 04:45	25.78	7.16	0.394	0.183	37.6	3.06	11.6	1	5
6/30/2004	5:00	6/30/2004 05:00	25.76	7.15	0.392	0.181	39	3.18	11.7	1	5
6/30/2004	5:15	6/30/2004 05:15	25.74	7.16	0.398	0.179	37.6	3.06	11.6	1	5
6/30/2004	5:30	6/30/2004 05:30	25.72	7.16	0.4	0.177	37.1	3.02	11.6	1	5
6/30/2004	5:45	6/30/2004 05:45	25.7	7.16	0.403	0.178	38.3	3.12	11.6	1	5
6/30/2004	6:00	6/30/2004 06:00	25.69	7.16	0.406	0.175	36.8	3	11.6	1	5
6/30/2004	6:15	6/30/2004 06:15	25.7	7.17	0.414	0.174	36.9	3.01	11.6	1	5
6/30/2004	6:30	6/30/2004 06:30	25.73	7.17	0.424	0.172	36	2.93	11.6	1	5
6/30/2004	6:45	6/30/2004 06:45	25.7	7.16	0.418	0.171	36.7	2.99	11.6	1	5
6/30/2004	7:00	6/30/2004 07:00	25.74	7.16	0.425	0.171	34.6	2.82	11.6	1	5
6/30/2004	7:15	6/30/2004 07:15	25.65	7.15	0.425	0.169	36.7	2.99	11.7	1	5
6/30/2004	7:30	6/30/2004 07:30	25.52	7.17	0.408	0.167	47.4	3.87	11.6	1	5
6/30/2004	7:45	6/30/2004 07:45	25.82	7.22	0.353	0.167	48.4	3.94	11.6	1	5
6/30/2004	8:00	6/30/2004 08:00	25.88	7.24	0.356	0.167	48.3	3.92	11.6	1	5
6/30/2004	8:15	6/30/2004 08:15	25.87	7.23	0.373	0.165	49.6	4.03	11.6	1	5
6/30/2004	8:30	6/30/2004 08:30	26.02	7.22	0.377	0.163	48.9	3.96	11.6	1	5
6/30/2004	8:45	6/30/2004 08:45	26.01	7.22	0.38	0.163	47.3	3.83	11.6	1	5
6/30/2004	9:00	6/30/2004 09:00	26.05	7.19	0.412	0.163	37.5	3.03	11.5	1	5
6/30/2004	9:15	6/30/2004 09:15	26.19	7.18	0.428	0.162	35.5	2.87	11.6	1	5

6/30/2004	9:30	6/30/2004	09:30	26.3	7.17	0.45	0.161	33.3	2.68	11.5	1	5
6/30/2004	9:45	6/30/2004	09:45	26.43	7.2	0.404	0.161	43.6	3.5	11.6	1	5
6/30/2004	10:00	6/30/2004	10:00	26.51	7.18	0.41	0.162	45.7	3.67	11.5	1	5
6/30/2004	10:15	6/30/2004	10:15	26.94	7.19	0.38	0.162	52.3	4.17	11.6	1	5
6/30/2004	10:30	6/30/2004	10:30	27.33	7.21	0.379	0.165	52.5	4.15	11.6	1	5
6/30/2004	10:45	6/30/2004	10:45	27.52	7.21	0.374	0.165	54.2	4.27	11.6	1	5
6/30/2004	11:00	6/30/2004	11:00	27.63	7.19	0.37	0.185	43.1	3.39	11.5	1	5
6/30/2004	11:15	6/30/2004	11:15	27.17	7.23	0.408	0.202	50.2	3.98	11.5	1	5
6/30/2004	11:30	6/30/2004	11:30	26.83	7.2	0.449	0.231	41.3	3.29	11.5	1	5
6/30/2004	11:45	6/30/2004	11:45	26.73	7.26	0.464	0.237	45.1	3.6	11.5	1	5
6/30/2004	12:00	6/30/2004	12:00	27.03	7.34	0.471	0.242	56.4	4.48	11.6	1	5
6/30/2004	12:15	6/30/2004	12:15	27.15	7.37	0.48	0.251	57.8	4.58	11.5	1	5
6/30/2004	12:30	6/30/2004	12:30	27.49	7.41	0.494	0.256	60.6	4.78	11.5	1	5
6/30/2004	12:45	6/30/2004	12:45	27.49	7.37	0.476	0.258	53.4	4.21	11.5	1	5
6/30/2004	13:00	6/30/2004	13:00	27.77	7.35	0.451	0.26	55.7	4.37	11.6	1	5
6/30/2004	13:15	6/30/2004	13:15	27.87	7.33	0.455	0.293	51.7	4.05	11.6	1	5
6/30/2004	13:30	6/30/2004	13:30	26.27	7.19	0.564	0.345	39.9	3.22	11.5	1	5
6/30/2004	13:45	6/30/2004	13:45	26.86	7.28	0.271	0.299	67.4	5.38	11.5	0	5
6/30/2004	14:00	6/30/2004	14:00	27.64	7.68	0.125	0.285	91.3	7.19	11.5	0	5
6/30/2004	14:15	6/30/2004	14:15	27.64	7.33	0.25	0.28	75.6	5.95	11.5	0	5
6/30/2004	14:30	6/30/2004	14:30	27.85	7.32	0.269	0.272	73.5	5.76	11.5	0	5
6/30/2004	14:45	6/30/2004	14:45	28.11	7.32	0.238	0.266	74.6	5.82	11.5	0	5
6/30/2004	15:00	6/30/2004	15:00	28.45	7.33	0.208	0.262	74.4	5.78	11.5	0	5
6/30/2004	15:15	6/30/2004	15:15	28.55	7.32	0.1963	0.257	73	5.66	11.5	0	5
6/30/2004	15:30	6/30/2004	15:30	28.66	7.34	0.191	0.253	72.5	5.6	11.5	0	5
6/30/2004	15:45	6/30/2004	15:45	28.69	7.33	0.1857	0.247	72.6	5.61	11.6	0	5
6/30/2004	16:00	6/30/2004	16:00	28.72	7.33	0.1857	0.242	72.3	5.58	11.5	0	5
6/30/2004	16:15	6/30/2004	16:15	28.82	7.31	0.1815	0.238	70.5	5.44	11.5	0	5
6/30/2004	16:30	6/30/2004	16:30	28.84	7.31	0.1805	0.234	70.5	5.44	11.5	0	5
6/30/2004	16:45	6/30/2004	16:45	28.71	7.3	0.178	0.231	69	5.33	11.5	0	5
6/30/2004	17:00	6/30/2004	17:00	28.91	7.28	0.1838	0.227	68.2	5.25	11.5	0	5
6/30/2004	17:15	6/30/2004	17:15	29.09	7.32	0.1885	0.23	70.5	5.41	11.5	0	5
6/30/2004	17:30	6/30/2004	17:30	28.49	7.31	0.1644	0.31	67.3	5.22	11.5	0	5

6/30/2004	17:45	6/30/2004	17:45	28.13	7.47	0.1743	0.316	71.9	5.61	11.4	0	5
6/30/2004	18:00	6/30/2004	18:00	27.72	7.34	0.1429	0.326	77.8	6.11	11.4	0	5
6/30/2004	18:15	6/30/2004	18:15	26.89	7.39	0.1298	0.342	82.1	6.55	11.4	0	5
6/30/2004	18:30	6/30/2004	18:30	26.99	7.36	0.1292	0.335	78.8	6.27	11.5	0	5
6/30/2004	18:45	6/30/2004	18:45	27.1	7.39	0.1259	0.341	77.6	6.17	11.4	0	5
6/30/2004	19:00	6/30/2004	19:00	27.16	7.33	0.125	0.342	77.5	6.16	11.4	0	5
6/30/2004	19:15	6/30/2004	19:15	27.09	7.3	0.1141	0.343	76.9	6.12	11.4	0	5
6/30/2004	19:30	6/30/2004	19:30	27.12	7.27	0.1311	0.343	76.2	6.05	11.4	0	5
6/30/2004	19:45	6/30/2004	19:45	27.15	7.26	0.1193	0.34	73.8	5.86	11.4	0	5
6/30/2004	20:00	6/30/2004	20:00	27.16	7.27	0.1264	0.336	73.1	5.81	11.5	0	5
6/30/2004	20:15	6/30/2004	20:15	27.16	7.24	0.129	0.333	71.2	5.66	11.4	0	5
6/30/2004	20:30	6/30/2004	20:30	27.23	7.22	0.1388	0.329	69.4	5.5	11.4	0	5
6/30/2004	20:45	6/30/2004	20:45	27.16	7.19	0.1386	0.325	69.2	5.49	11.4	0	5
6/30/2004	21:00	6/30/2004	21:00	27.1	7.16	0.1506	0.32	68.1	5.41	11.4	0	5
6/30/2004	21:15	6/30/2004	21:15	27.12	7.19	0.1494	0.315	66.5	5.28	11.4	0	5
6/30/2004	21:30	6/30/2004	21:30	27.14	7.17	0.1618	0.31	65.2	5.18	11.4	0	5
6/30/2004	21:45	6/30/2004	21:45	27.08	7.16	0.1583	0.305	64.9	5.16	11.4	0	5
6/30/2004	22:00	6/30/2004	22:00	27.07	7.16	0.1622	0.3	63.5	5.05	11.4	0	5
6/30/2004	22:15	6/30/2004	22:15	26.91	7.15	0.1712	0.294	63.4	5.06	11.4	0	5
6/30/2004	22:30	6/30/2004	22:30	26.91	7.16	0.1739	0.288	62.9	5.01	11.4	0	5
6/30/2004	22:45	6/30/2004	22:45	26.86	7.14	0.1753	0.284	61.8	4.93	11.4	1	5
6/30/2004	23:00	6/30/2004	23:00	26.97	7.13	0.1781	0.28	60.9	4.85	11.4	1	5
6/30/2004	23:15	6/30/2004	23:15	26.91	7.11	0.1803	0.275	61	4.87	11.4	1	5
6/30/2004	23:30	6/30/2004	23:30	26.95	7.1	0.1803	0.27	60.2	4.8	11.4	1	5
6/30/2004	23:45	6/30/2004	23:45	26.92	7.1	0.183	0.265	59.9	4.77	11.4	1	5
7/1/2004	0:00	7/1/2004	00:00	26.88	7.1	0.189	0.261	58.9	4.7	11.4	1	5
7/1/2004	0:15	7/1/2004	00:15	26.75	7.12	0.205	0.257	58.3	4.66	11.4	1	5
7/1/2004	0:30	7/1/2004	00:30	26.8	7.11	0.204	0.253	57.8	4.62	11.4	1	5
7/1/2004	0:45	7/1/2004	00:45	26.68	7.11	0.208	0.25	58.3	4.67	11.4	1	5
7/1/2004	1:00	7/1/2004	01:00	26.62	7.12	0.214	0.247	58.1	4.66	11.4	1	5
7/1/2004	1:15	7/1/2004	01:15	26.72	7.1	0.216	0.243	56.3	4.51	11.4	1	5
7/1/2004	1:30	7/1/2004	01:30	26.62	7.1	0.219	0.241	57.2	4.59	11.4	1	5
7/1/2004	1:45	7/1/2004	01:45	26.6	7.11	0.224	0.237	56.2	4.5	11.4	1	5

7/1/2004	2:00	7/1/2004 02:00	26.57	7.11	0.23	0.234	55.5	4.45	11.4	1	5
7/1/2004	2:15	7/1/2004 02:15	26.59	7.11	0.234	0.232	55.1	4.42	11.4	1	5
7/1/2004	2:30	7/1/2004 02:30	26.48	7.1	0.24	0.228	54.9	4.41	11.4	1	5
7/1/2004	2:45	7/1/2004 02:45	26.55	7.1	0.247	0.226	54.1	4.34	11.4	1	5
7/1/2004	3:00	7/1/2004 03:00	26.48	7.1	0.25	0.223	54.4	4.38	11.4	1	5
7/1/2004	3:15	7/1/2004 03:15	26.48	7.1	0.251	0.22	53.5	4.3	11.4	1	5
7/1/2004	3:30	7/1/2004 03:30	26.43	7.1	0.255	0.219	53.4	4.29	11.4	1	5
7/1/2004	3:45	7/1/2004 03:45	26.37	7.1	0.26	0.216	52.7	4.25	11.4	1	5
7/1/2004	4:00	7/1/2004 04:00	26.27	7.1	0.26	0.213	53.8	4.34	11.4	1	5
7/1/2004	4:15	7/1/2004 04:15	26.23	7.11	0.259	0.211	53.9	4.35	11.4	1	5
7/1/2004	4:30	7/1/2004 04:30	26.21	7.16	0.253	0.21	54.1	4.37	11.4	1	5
7/1/2004	4:45	7/1/2004 04:45	26.24	7.15	0.254	0.206	53.3	4.3	11.4	1	5
7/1/2004	5:00	7/1/2004 05:00	26.26	7.14	0.259	0.205	52.4	4.23	11.4	1	5
7/1/2004	5:15	7/1/2004 05:15	26.23	7.14	0.261	0.202	51.7	4.17	11.4	1	5
7/1/2004	5:30	7/1/2004 05:30	26.25	7.13	0.273	0.2	50.1	4.04	11.4	1	5
7/1/2004	5:45	7/1/2004 05:45	26.21	7.13	0.267	0.198	50.3	4.06	11.4	1	5
7/1/2004	6:00	7/1/2004 06:00	26.05	7.14	0.281	0.195	50.6	4.1	11.4	1	5
7/1/2004	6:15	7/1/2004 06:15	26.09	7.13	0.262	0.192	50	4.04	11.4	1	5
7/1/2004	6:30	7/1/2004 06:30	26.06	7.13	0.265	0.191	50	4.05	11.4	1	5
7/1/2004	6:45	7/1/2004 06:45	26.05	7.13	0.263	0.189	50	4.05	11.4	1	5
7/1/2004	7:00	7/1/2004 07:00	25.94	7.14	0.251	0.189	51.8	4.21	11.4	1	5
7/1/2004	7:15	7/1/2004 07:15	26.17	7.25	0.223	0.185	68.1	5.5	11.4	0	5
7/1/2004	7:30	7/1/2004 07:30	26.21	7.24	0.257	0.182	70	5.65	11.4	0	5
7/1/2004	7:45	7/1/2004 07:45	26.19	7.21	0.267	0.183	66	5.33	11.4	0	5
7/1/2004	8:00	7/1/2004 08:00	26.24	7.18	0.267	0.181	63.9	5.15	11.4	0	5
7/1/2004	8:15	7/1/2004 08:15	26.28	7.14	0.305	0.18	58.7	4.73	11.4	1	5
7/1/2004	8:30	7/1/2004 08:30	26.52	7.11	0.334	0.178	47.8	3.84	11.4	1	5
7/1/2004	8:45	7/1/2004 08:45	26.39	7.13	0.334	0.176	51	4.1	11.4	1	5
7/1/2004	9:00	7/1/2004 09:00	26.59	7.19	0.354	0.175	58.7	4.71	11.4	1	5
7/1/2004	9:15	7/1/2004 09:15	26.49	7.13	0.339	0.173	49.3	3.96	11.4	1	5
7/1/2004	9:30	7/1/2004 09:30	26.49	7.11	0.336	0.172	50	4.02	11.4	1	5
7/1/2004	9:45	7/1/2004 09:45	26.57	7.11	0.335	0.171	50.6	4.05	11.4	1	5
7/1/2004	10:00	7/1/2004 10:00	26.9	7.12	0.332	0.17	50.1	3.99	11.4	1	5

7/1/2004	10:15	7/1/2004	10:15	26.87	7.15	0.296	0.17	59.8	4.77	11.4	1	5
7/1/2004	10:30	7/1/2004	10:30	27.22	7.15	0.311	0.169	57.6	4.56	11.4	1	5
7/1/2004	10:45	7/1/2004	10:45	27.53	7.15	0.311	0.169	57.8	4.56	11.4	1	5
7/1/2004	11:00	7/1/2004	11:00	28.19	7.19	0.305	0.169	61.8	4.82	11.4	1	5
7/1/2004	11:15	7/1/2004	11:15	28.41	7.17	0.324	0.17	56.5	4.38	11.4	1	5
7/1/2004	11:30	7/1/2004	11:30	29.17	7.21	0.319	0.171	61.4	4.7	11.4	1	5
7/1/2004	11:45	7/1/2004	11:45	29.2	7.18	0.319	0.172	60.5	4.63	11.3	1	5
7/1/2004	12:00	7/1/2004	12:00	29.2	7.17	0.318	0.169	62.8	4.81	11.3	1	5
7/1/2004	12:15	7/1/2004	12:15	29.11	7.19	0.322	0.169	63.9	4.9	11.3	1	5
7/1/2004	12:30	7/1/2004	12:30	29.69	7.19	0.287	0.168	59.1	4.49	11.4	1	5
7/1/2004	12:45	7/1/2004	12:45	29.78	7.23	0.301	0.168	63.3	4.8	11.3	1	5
7/1/2004	13:00	7/1/2004	13:00	29.8	7.2	0.303	0.168	60.2	4.56	11.4	1	5
7/1/2004	13:15	7/1/2004	13:15	30.46	7.2	0.287	0.168	61.8	4.63	11.4	1	5
7/1/2004	13:30	7/1/2004	13:30	30.38	7.19	0.28	0.169	61.4	4.61	11.4	1	5
7/1/2004	13:45	7/1/2004	13:45	30.66	7.19	0.285	0.168	61.3	4.58	11.3	1	5
7/1/2004	14:00	7/1/2004	14:00	30.64	7.18	0.293	0.168	60.9	4.55	11.4	1	5
7/1/2004	14:15	7/1/2004	14:15	30.98	7.17	0.263	0.168	60	4.46	11.3	1	5
7/1/2004	14:30	7/1/2004	14:30	30.73	7.16	0.267	0.167	59.5	4.44	11.3	1	5
7/1/2004	14:45	7/1/2004	14:45	30.98	7.16	0.258	0.166	57.4	4.26	11.4	1	5
7/1/2004	15:00	7/1/2004	15:00	30.59	7.16	0.266	0.165	57.4	4.29	11.4	1	5
7/1/2004	15:15	7/1/2004	15:15	30.55	7.25	0.28	0.159	68.2	5.1	11.4	0	5
7/1/2004	15:30	7/1/2004	15:30	30.09	7.33	0.312	0.161	72.1	5.44	11.4	0	5
7/1/2004	15:45	7/1/2004	15:45	29.14	7.24	0.335	0.16	63.2	4.85	11.4	1	5
7/1/2004	16:00	7/1/2004	16:00	28.91	7.22	0.329	0.175	55.1	4.24	11.4	1	5
7/1/2004	16:15	7/1/2004	16:15	29.07	7.21	0.314	0.194	53.5	4.1	11.4	1	5
7/1/2004	16:30	7/1/2004	16:30	28.98	7.17	0.309	0.21	48.5	3.73	11.4	1	5
7/1/2004	16:45	7/1/2004	16:45	29.18	7.15	0.297	0.24	47.7	3.65	11.4	1	5
7/1/2004	17:00	7/1/2004	17:00	29.04	7.14	0.293	0.273	46.6	3.57	11.3	1	5
7/1/2004	17:15	7/1/2004	17:15	29.05	7.13	0.289	0.301	45.4	3.48	11.3	1	5
7/1/2004	17:30	7/1/2004	17:30	29.07	7.13	0.287	0.327	45.3	3.47	11.4	1	5
7/1/2004	17:45	7/1/2004	17:45	29.09	7.13	0.285	0.357	44.6	3.42	11.4	1	5
7/1/2004	18:00	7/1/2004	18:00	29.01	7.13	0.294	0.384	42.9	3.3	11.3	1	5
7/1/2004	18:15	7/1/2004	18:15	28.93	7.13	0.297	0.402	42.2	3.24	11.3	1	5

7/1/2004	18:30	7/1/2004	18:30	28.92	7.12	0.293	0.417	41.6	3.2	11.3	1	5
7/1/2004	18:45	7/1/2004	18:45	28.89	7.12	0.296	0.432	39.5	3.04	11.4	1	5
7/1/2004	19:00	7/1/2004	19:00	28.81	7.11	0.298	0.441	38.8	2.99	11.3	1	5
7/1/2004	19:15	7/1/2004	19:15	28.7	7.12	0.302	0.445	37.6	2.9	11.3	1	5
7/1/2004	19:30	7/1/2004	19:30	28.65	7.12	0.308	0.448	37.3	2.88	11.3	1	5
7/1/2004	19:45	7/1/2004	19:45	28.57	7.11	0.31	0.453	36	2.78	11.3	1	5
7/1/2004	20:00	7/1/2004	20:00	28.35	7.11	0.317	0.456	35.6	2.76	11.3	1	5
7/1/2004	20:15	7/1/2004	20:15	28.33	7.11	0.322	0.459	35.6	2.76	11.4	1	5
7/1/2004	20:30	7/1/2004	20:30	28.15	7.11	0.333	0.459	35.6	2.77	11.3	1	5
7/1/2004	20:45	7/1/2004	20:45	28.11	7.11	0.32	0.462	36.3	2.83	11.3	1	5
7/1/2004	21:00	7/1/2004	21:00	28.12	7.11	0.323	0.461	36.1	2.82	11.3	1	5
7/1/2004	21:15	7/1/2004	21:15	28.05	7.11	0.332	0.462	35.5	2.77	11.3	1	5
7/1/2004	21:30	7/1/2004	21:30	28.08	7.11	0.324	0.46	35.2	2.74	11.3	1	5
7/1/2004	21:45	7/1/2004	21:45	28.06	7.11	0.324	0.461	36.2	2.83	11.3	1	5
7/1/2004	22:00	7/1/2004	22:00	27.93	7.11	0.34	0.456	35	2.74	11.3	1	5
7/1/2004	22:15	7/1/2004	22:15	27.92	7.11	0.329	0.452	34.8	2.73	11.3	1	5
7/1/2004	22:30	7/1/2004	22:30	27.82	7.11	0.334	0.452	34.7	2.73	11.3	1	5
7/1/2004	22:45	7/1/2004	22:45	27.76	7.12	0.334	0.45	35.2	2.76	11.3	1	5
7/1/2004	23:00	7/1/2004	23:00	27.72	7.13	0.337	0.448	35.4	2.78	11.4	1	5
7/1/2004	23:15	7/1/2004	23:15	27.51	7.14	0.343	0.445	36.1	2.84	11.3	1	5
7/1/2004	23:30	7/1/2004	23:30	27.63	7.16	0.339	0.443	36.8	2.9	11.3	1	5
7/1/2004	23:45	7/1/2004	23:45	27.56	7.16	0.344	0.441	37.5	2.95	11.3	1	5
7/2/2004	0:00	7/2/2004	00:00	27.56	7.18	0.344	0.439	36.6	2.88	11.3	1	5
7/2/2004	0:15	7/2/2004	00:15	27.49	7.18	0.346	0.437	36.3	2.86	11.3	1	5
7/2/2004	0:30	7/2/2004	00:30	27.44	7.16	0.349	0.435	35.1	2.77	11.3	1	5
7/2/2004	0:45	7/2/2004	00:45	27.36	7.15	0.347	0.432	34	2.69	11.3	1	5
7/2/2004	1:00	7/2/2004	01:00	27.23	7.14	0.356	0.431	32.6	2.59	11.3	1	5
7/2/2004	1:15	7/2/2004	01:15	27.31	7.13	0.348	0.428	32.3	2.56	11.3	1	5
7/2/2004	1:30	7/2/2004	01:30	27.22	7.12	0.355	0.424	31.7	2.51	11.3	1	5
7/2/2004	1:45	7/2/2004	01:45	27.22	7.14	0.352	0.423	31.3	2.48	11.3	1	5
7/2/2004	2:00	7/2/2004	02:00	27.17	7.12	0.351	0.421	30.7	2.44	11.3	1	5
7/2/2004	2:15	7/2/2004	02:15	27.16	7.12	0.351	0.418	31.3	2.48	11.3	1	5
7/2/2004	2:30	7/2/2004	02:30	27.2	7.12	0.347	0.415	30.6	2.43	11.2	1	5

7/2/2004	2:45	7/2/2004 02:45	27.15	7.12	0.348	0.413	30.5	2.42	11.3	1	5
7/2/2004	3:00	7/2/2004 03:00	27.14	7.12	0.345	0.411	30.8	2.45	11.3	1	5
7/2/2004	3:15	7/2/2004 03:15	27.1	7.11	0.348	0.408	30.9	2.46	11.3	1	5
7/2/2004	3:30	7/2/2004 03:30	27.04	7.12	0.357	0.407	30.9	2.46	11.3	1	5
7/2/2004	3:45	7/2/2004 03:45	27.04	7.12	0.352	0.403	30.9	2.46	11.2	1	5
7/2/2004	4:00	7/2/2004 04:00	27	7.12	0.348	0.401	31.1	2.47	11.3	1	5
7/2/2004	4:15	7/2/2004 04:15	26.99	7.13	0.353	0.397	30.7	2.45	11.3	1	5
7/2/2004	4:30	7/2/2004 04:30	26.99	7.12	0.355	0.395	30.6	2.44	11.3	1	5
7/2/2004	4:45	7/2/2004 04:45	26.97	7.12	0.354	0.394	30.3	2.41	11.3	1	5
7/2/2004	5:00	7/2/2004 05:00	26.95	7.13	0.353	0.39	31.1	2.47	11.3	1	5
7/2/2004	5:15	7/2/2004 05:15	26.9	7.12	0.355	0.387	30.5	2.43	11.2	1	5
7/2/2004	5:30	7/2/2004 05:30	26.86	7.13	0.356	0.384	31.3	2.5	11.2	1	5
7/2/2004	5:45	7/2/2004 05:45	26.81	7.13	0.365	0.382	30.4	2.43	11.2	1	5
7/2/2004	6:00	7/2/2004 06:00	26.75	7.13	0.371	0.378	31.7	2.54	11.3	1	5
7/2/2004	6:15	7/2/2004 06:15	26.77	7.14	0.363	0.374	31.9	2.55	11.3	1	5
7/2/2004	6:30	7/2/2004 06:30	26.75	7.14	0.364	0.37	32	2.56	11.3	1	5
7/2/2004	6:45	7/2/2004 06:45	26.85	7.14	0.364	0.367	32	2.56	11.2	1	5
7/2/2004	7:00	7/2/2004 07:00	26.78	7.15	0.365	0.366	34.2	2.73	11.2	1	5
7/2/2004	7:15	7/2/2004 07:15	26.74	7.15	0.366	0.362	33.9	2.71	11.2	1	5
7/2/2004	7:30	7/2/2004 07:30	26.74	7.15	0.377	0.36	34	2.72	11.2	1	5
7/2/2004	7:45	7/2/2004 07:45	26.72	7.15	0.397	0.358	33.4	2.67	11.3	1	5
7/2/2004	8:00	7/2/2004 08:00	26.76	7.15	0.392	0.352	34.6	2.77	11.2	1	5
7/2/2004	8:15	7/2/2004 08:15	26.73	7.15	0.374	0.354	32.8	2.62	11.2	1	5
7/2/2004	8:30	7/2/2004 08:30	26.67	7.14	0.409	0.35	32.7	2.62	11.2	1	5
7/2/2004	8:45	7/2/2004 08:45	26.69	7.15	0.409	0.347	32.8	2.62	11.2	1	5
7/2/2004	9:00	7/2/2004 09:00	26.71	7.16	0.411	0.345	32.8	2.62	11.2	1	5
7/2/2004	9:15	7/2/2004 09:15	26.72	7.16	0.415	0.342	32	2.56	11.3	1	5
7/2/2004	9:30	7/2/2004 09:30	26.67	7.15	0.392	0.341	32	2.57	11.2	1	5
7/2/2004	9:45	7/2/2004 09:45	26.66	7.15	0.432	0.337	33.6	2.69	11.2	1	5
7/2/2004	10:00	7/2/2004 10:00	26.75	7.15	0.436	0.336	32.9	2.63	11.2	1	5
7/2/2004	10:15	7/2/2004 10:15	26.82	7.16	0.424	0.334	34.6	2.76	11.2	1	5
7/2/2004	10:30	7/2/2004 10:30	27.03	7.18	0.419	0.334	36.4	2.9	11.2	1	5
7/2/2004	10:45	7/2/2004 10:45	27.11	7.18	0.415	0.337	37.9	3.01	11.2	1	5

7/2/2004	11:00	7/2/2004	11:00	27.57	7.21	0.406	0.386	42.8	3.37	11.2	1	5
7/2/2004	11:15	7/2/2004	11:15	26.54	7.24	0.629	0.435	52	4.17	11.2	1	5
7/2/2004	11:30	7/2/2004	11:30	26.62	7.36	0.272	0.393	69.8	5.59	11.2	0	5
7/2/2004	11:45	7/2/2004	11:45	27.16	8.3	0.1113	0.378	90.7	7.2	11.2	0	5
7/2/2004	12:00	7/2/2004	12:00	27.64	7.84	0.1517	0.373	78.6	6.19	11.2	0	5
7/2/2004	12:15	7/2/2004	12:15	28.11	7.44	0.206	0.371	70.2	5.48	11.2	0	5
7/2/2004	12:30	7/2/2004	12:30	28.1	7.29	0.253	0.366	64.3	5.02	11.2	0	5
7/2/2004	12:45	7/2/2004	12:45	28.71	7.33	0.252	0.363	67	5.18	11.2	0	5
7/2/2004	13:00	7/2/2004	13:00	28.72	7.3	0.24	0.363	67.2	5.19	11.3	0	5
7/2/2004	13:15	7/2/2004	13:15	28.69	7.29	0.227	0.361	68.1	5.26	11.2	0	5
7/2/2004	13:30	7/2/2004	13:30	28.89	7.33	0.1977	0.367	71.2	5.48	11.2	0	5
7/2/2004	13:45	7/2/2004	13:45	28.67	7.32	0.1826	0.364	73.1	5.65	11.2	0	5
7/2/2004	14:00	7/2/2004	14:00	28.62	7.36	0.1742	0.356	72	5.57	11.2	0	5
7/2/2004	14:15	7/2/2004	14:15	28.74	7.41	0.1651	0.351	72.3	5.58	11.2	0	5
7/2/2004	14:30	7/2/2004	14:30	28.83	7.46	0.1518	0.345	72.6	5.59	11.2	0	5
7/2/2004	14:45	7/2/2004	14:45	28.94	7.49	0.1606	0.34	71	5.46	11.2	0	5
7/2/2004	15:00	7/2/2004	15:00	29.1	7.68	0.1583	0.35	72.2	5.54	11.2	0	5
7/2/2004	15:15	7/2/2004	15:15	29.13	7.69	0.158	0.35	72	5.52	11.2	0	5
7/2/2004	15:30	7/2/2004	15:30	29.14	7.54	0.1602	0.347	70.4	5.4	11.2	0	5
7/2/2004	15:45	7/2/2004	15:45	29.14	7.42	0.1672	0.345	69.3	5.32	11.2	0	5
7/2/2004	16:00	7/2/2004	16:00	28.99	7.34	0.1676	0.344	66.5	5.11	11.2	0	5
7/2/2004	16:15	7/2/2004	16:15	29	7.28	0.1698	0.341	66.1	5.08	11.2	0	5
7/2/2004	16:30	7/2/2004	16:30	28.92	7.29	0.1721	0.337	64.5	4.97	11.2	1	5
7/2/2004	16:45	7/2/2004	16:45	28.98	7.35	0.1741	0.332	62.5	4.81	11.1	1	5
7/2/2004	17:00	7/2/2004	17:00	29.02	7.38	0.1804	0.329	65	4.99	11.2	1	5
7/2/2004	17:15	7/2/2004	17:15	29.04	7.34	0.1835	0.325	64.2	4.93	11.2	1	5
7/2/2004	17:30	7/2/2004	17:30	29.05	7.31	0.184	0.322	63.6	4.88	11.2	1	5
7/2/2004	17:45	7/2/2004	17:45	29.12	7.29	0.1866	0.321	64.1	4.92	11.2	1	5
7/2/2004	18:00	7/2/2004	18:00	29.16	7.26	0.1879	0.32	63.8	4.89	11.2	1	5
7/2/2004	18:15	7/2/2004	18:15	29.22	7.22	0.1962	0.319	64.5	4.94	11.2	1	5
7/2/2004	18:30	7/2/2004	18:30	29.07	7.2	0.1919	0.302	61.9	4.75	11.2	1	5
7/2/2004	18:45	7/2/2004	18:45	29.03	7.21	0.1985	0.298	61.5	4.73	11.2	1	5
7/2/2004	19:00	7/2/2004	19:00	29.07	7.17	0.1934	0.296	61.1	4.69	11.2	1	5

7/2/2004	19:15	7/2/2004	19:15	28.95	7.19	0.1969	0.294	59.1	4.54	11.2	1	5
7/2/2004	19:30	7/2/2004	19:30	28.93	7.19	0.1965	0.291	59	4.54	11.1	1	5
7/2/2004	19:45	7/2/2004	19:45	28.92	7.19	0.197	0.289	57.1	4.39	11.2	1	5
7/2/2004	20:00	7/2/2004	20:00	28.89	7.19	0.1981	0.289	56.6	4.36	11.2	1	5
7/2/2004	20:15	7/2/2004	20:15	28.86	7.18	0.1994	0.285	55.7	4.29	11.2	1	5
7/2/2004	20:30	7/2/2004	20:30	28.83	7.17	0.203	0.285	55.2	4.26	11.2	1	5
7/2/2004	20:45	7/2/2004	20:45	28.79	7.17	0.205	0.282	54.7	4.22	11.1	1	5
7/2/2004	21:00	7/2/2004	21:00	28.78	7.16	0.204	0.282	54.6	4.21	11.2	1	5
7/2/2004	21:15	7/2/2004	21:15	28.72	7.16	0.208	0.28	53.7	4.15	11.2	1	5
7/2/2004	21:30	7/2/2004	21:30	28.71	7.16	0.208	0.278	53.8	4.15	11.2	1	5
7/2/2004	21:45	7/2/2004	21:45	28.63	7.16	0.207	0.276	53.2	4.12	11.2	1	5
7/2/2004	22:00	7/2/2004	22:00	28.59	7.14	0.21	0.273	53.1	4.11	11.1	1	5
7/2/2004	22:15	7/2/2004	22:15	28.52	7.14	0.211	0.271	51.7	4.01	11.1	1	5
7/2/2004	22:30	7/2/2004	22:30	28.46	7.14	0.215	0.267	52.1	4.04	11.1	1	5
7/2/2004	22:45	7/2/2004	22:45	28.4	7.14	0.218	0.265	52	4.03	11.1	1	5
7/2/2004	23:00	7/2/2004	23:00	28.34	7.14	0.22	0.263	52.1	4.05	11.2	1	5
7/2/2004	23:15	7/2/2004	23:15	28.27	7.14	0.224	0.26	51.1	3.98	11.2	1	5
7/2/2004	23:30	7/2/2004	23:30	28.23	7.14	0.225	0.257	51.3	4	11.1	1	5
7/2/2004	23:45	7/2/2004	23:45	28.2	7.14	0.227	0.256	50.6	3.94	11.2	1	5
7/3/2004	0:00	7/3/2004	00:00	28.13	7.13	0.229	0.255	50.8	3.96	11.1	1	5
7/3/2004	0:15	7/3/2004	00:15	28.13	7.13	0.229	0.251	49.7	3.88	11.1	1	5
7/3/2004	0:30	7/3/2004	00:30	28.09	7.13	0.23	0.251	48.7	3.8	11.1	1	5
7/3/2004	0:45	7/3/2004	00:45	28	7.13	0.233	0.249	49.3	3.86	11.1	1	5
7/3/2004	1:00	7/3/2004	01:00	27.92	7.13	0.236	0.247	49.3	3.86	11.1	1	5
7/3/2004	1:15	7/3/2004	01:15	27.89	7.13	0.238	0.247	49.3	3.86	11.1	1	5
7/3/2004	1:30	7/3/2004	01:30	27.88	7.13	0.241	0.244	48.7	3.82	11.1	1	5
7/3/2004	1:45	7/3/2004	01:45	27.79	7.13	0.242	0.243	47.8	3.75	11.1	1	5
7/3/2004	2:00	7/3/2004	02:00	27.74	7.13	0.246	0.241	48.3	3.79	11.1	1	5
7/3/2004	2:15	7/3/2004	02:15	27.72	7.13	0.247	0.239	47.6	3.74	11.1	1	5
7/3/2004	2:30	7/3/2004	02:30	27.64	7.13	0.248	0.237	47.1	3.71	11.1	1	5
7/3/2004	2:45	7/3/2004	02:45	27.59	7.13	0.25	0.235	47.5	3.74	11.1	1	5
7/3/2004	3:00	7/3/2004	03:00	27.59	7.13	0.252	0.234	46.9	3.69	11.1	1	5
7/3/2004	3:15	7/3/2004	03:15	27.55	7.12	0.255	0.233	47	3.7	11.1	1	5

7/3/2004	3:30	7/3/2004 03:30	27.52	7.12	0.256	0.231	46.7	3.68	11.1	1	5
7/3/2004	3:45	7/3/2004 03:45	27.47	7.13	0.26	0.23	46.2	3.64	11.1	1	5
7/3/2004	4:00	7/3/2004 04:00	27.37	7.12	0.262	0.228	46	3.63	11.1	1	5
7/3/2004	4:15	7/3/2004 04:15	27.34	7.12	0.266	0.225	45.7	3.62	11.1	1	5
7/3/2004	4:30	7/3/2004 04:30	27.38	7.12	0.27	0.224	44.7	3.53	11.1	1	5
7/3/2004	4:45	7/3/2004 04:45	27.27	7.12	0.275	0.225	44.5	3.52	11.1	1	5
7/3/2004	5:00	7/3/2004 05:00	27.23	7.12	0.278	0.221	45.1	3.58	11.1	1	5
7/3/2004	5:15	7/3/2004 05:15	27.26	7.13	0.282	0.22	44.5	3.52	11.1	1	5
7/3/2004	5:30	7/3/2004 05:30	27.2	7.12	0.288	0.219	43.9	3.48	11.1	1	5
7/3/2004	5:45	7/3/2004 05:45	27.11	7.12	0.289	0.218	43.5	3.46	11.1	1	5
7/3/2004	6:00	7/3/2004 06:00	27.16	7.12	0.299	0.216	42.9	3.4	11.1	1	5
7/3/2004	6:15	7/3/2004 06:15	27.19	7.12	0.315	0.215	42.3	3.36	11.1	1	5
7/3/2004	6:30	7/3/2004 06:30	27.1	7.12	0.314	0.212	41.6	3.3	11.1	1	5
7/3/2004	6:45	7/3/2004 06:45	26.93	7.11	0.302	0.211	43.5	3.47	11.1	1	5
7/3/2004	7:00	7/3/2004 07:00	27.02	7.11	0.314	0.209	42.5	3.39	11.1	1	5
7/3/2004	7:15	7/3/2004 07:15	26.9	7.12	0.306	0.208	44.5	3.55	11.1	1	5
7/3/2004	7:30	7/3/2004 07:30	26.9	7.12	0.31	0.207	44	3.5	11.1	1	5
7/3/2004	7:45	7/3/2004 07:45	26.99	7.12	0.322	0.205	41.3	3.28	11.1	1	5
7/3/2004	8:00	7/3/2004 08:00	27.14	7.12	0.347	0.203	41.8	3.32	11.1	1	5
7/3/2004	8:15	7/3/2004 08:15	27.31	7.11	0.338	0.201	41.1	3.25	11.1	1	5
7/3/2004	8:30	7/3/2004 08:30	27.13	7.12	0.33	0.199	42.9	3.4	11.1	1	5
7/3/2004	8:45	7/3/2004 08:45	27.31	7.11	0.357	0.197	39.9	3.16	11.1	1	5
7/3/2004	9:00	7/3/2004 09:00	27.4	7.12	0.334	0.196	42.5	3.36	11.1	1	5
7/3/2004	9:15	7/3/2004 09:15	27.5	7.13	0.336	0.195	42.6	3.36	11.1	1	5
7/3/2004	9:30	7/3/2004 09:30	27.71	7.12	0.337	0.194	40.2	3.16	11.1	1	5
7/3/2004	9:45	7/3/2004 09:45	27.8	7.14	0.347	0.192	44.5	3.49	11.1	1	5
7/3/2004	10:00	7/3/2004 10:00	27.72	7.15	0.323	0.19	48.4	3.8	11.1	1	5
7/3/2004	10:15	7/3/2004 10:15	28	7.14	0.31	0.19	50.6	3.96	11.1	1	5
7/3/2004	10:30	7/3/2004 10:30	27.92	7.12	0.332	0.187	42.6	3.33	11.1	1	5
7/3/2004	10:45	7/3/2004 10:45	28	7.11	0.335	0.186	41.6	3.25	11.1	1	5
7/3/2004	11:00	7/3/2004 11:00	28.05	7.12	0.338	0.188	41.6	3.25	11.1	1	5
7/3/2004	11:15	7/3/2004 11:15	28.33	7.12	0.333	0.185	43.2	3.36	11.1	1	5
7/3/2004	11:30	7/3/2004 11:30	28.47	7.13	0.336	0.185	41.7	3.23	11.1	1	5

7/3/2004	11:45	7/3/2004	11:45	28.66	7.12	0.329	0.185	42.6	3.29	11.1	1	5
7/3/2004	12:00	7/3/2004	12:00	28.8	7.11	0.32	0.185	42.4	3.27	11.1	1	5
7/3/2004	12:15	7/3/2004	12:15	29.24	7.11	0.324	0.184	44.3	3.39	11.1	1	5
7/3/2004	12:30	7/3/2004	12:30	29.01	7.11	0.335	0.185	40.2	3.09	11.1	1	5
7/3/2004	12:45	7/3/2004	12:45	29.47	7.11	0.338	0.183	40.3	3.07	11.1	1	5
7/3/2004	13:00	7/3/2004	13:00	29.47	7.11	0.339	0.184	40.5	3.09	11.1	1	5
7/3/2004	13:15	7/3/2004	13:15	29.61	7.12	0.343	0.183	40.4	3.07	11.1	1	5
7/3/2004	13:30	7/3/2004	13:30	30.08	7.12	0.339	0.184	39.8	3	11.1	1	5
7/3/2004	13:45	7/3/2004	13:45	29.62	7.13	0.34	0.18	41.7	3.17	11.1	1	5
7/3/2004	14:00	7/3/2004	14:00	30.03	7.12	0.342	0.184	43.3	3.27	11.1	1	5
7/3/2004	14:15	7/3/2004	14:15	29.67	7.18	0.357	0.2	40.3	3.06	11.1	1	5
7/3/2004	14:30	7/3/2004	14:30	29.31	7.16	0.361	0.214	38.3	2.93	11.1	1	5
7/3/2004	14:45	7/3/2004	14:45	30.02	7.2	0.345	0.228	48.3	3.65	11.1	1	5
7/3/2004	15:00	7/3/2004	15:00	29.92	7.19	0.346	0.24	45.3	3.43	11.1	1	5
7/3/2004	15:15	7/3/2004	15:15	29.9	7.18	0.344	0.25	43.9	3.32	11.1	1	5
7/3/2004	15:30	7/3/2004	15:30	29.95	7.17	0.337	0.255	43.1	3.25	11.1	1	5
7/3/2004	15:45	7/3/2004	15:45	29.92	7.17	0.33	0.262	42.5	3.22	11.1	1	5
7/3/2004	16:00	7/3/2004	16:00	29.92	7.15	0.32	0.268	40.9	3.1	11.1	1	5
7/3/2004	16:15	7/3/2004	16:15	29.58	7.14	0.331	0.274	39.4	2.99	11.1	1	5
7/3/2004	16:30	7/3/2004	16:30	29.78	7.14	0.312	0.278	38.3	2.9	11.1	1	5
7/3/2004	16:45	7/3/2004	16:45	29.61	7.14	0.323	0.282	37.4	2.84	11.1	1	5
7/3/2004	17:00	7/3/2004	17:00	29.67	7.12	0.325	0.285	38.2	2.9	11.1	1	5
7/3/2004	17:15	7/3/2004	17:15	29.49	7.13	0.319	0.286	39	2.97	11.1	1	5
7/3/2004	17:30	7/3/2004	17:30	29.53	7.18	0.353	0.288	40.2	3.06	11.1	1	5
7/3/2004	17:45	7/3/2004	17:45	29.72	7.25	0.384	0.288	50.9	3.86	11.1	1	5
7/3/2004	18:00	7/3/2004	18:00	29.92	7.18	0.313	0.289	43.1	3.26	11.1	1	5
7/3/2004	18:15	7/3/2004	18:15	29.99	7.18	0.33	0.288	43.4	3.28	11.1	1	5
7/3/2004	18:30	7/3/2004	18:30	29.82	7.17	0.296	0.286	38.4	2.91	11.1	1	5
7/3/2004	18:45	7/3/2004	18:45	29.57	7.17	0.327	0.284	38.5	2.93	11.1	1	5
7/3/2004	19:00	7/3/2004	19:00	29.48	7.18	0.358	0.282	40.6	3.1	11.1	1	5
7/3/2004	19:15	7/3/2004	19:15	29.6	7.2	0.342	0.28	43.6	3.32	11.1	1	5
7/3/2004	19:30	7/3/2004	19:30	29.55	7.18	0.331	0.278	39.9	3.03	11.1	1	5
7/3/2004	19:45	7/3/2004	19:45	29.32	7.17	0.35	0.278	36.7	2.8	11.1	1	5

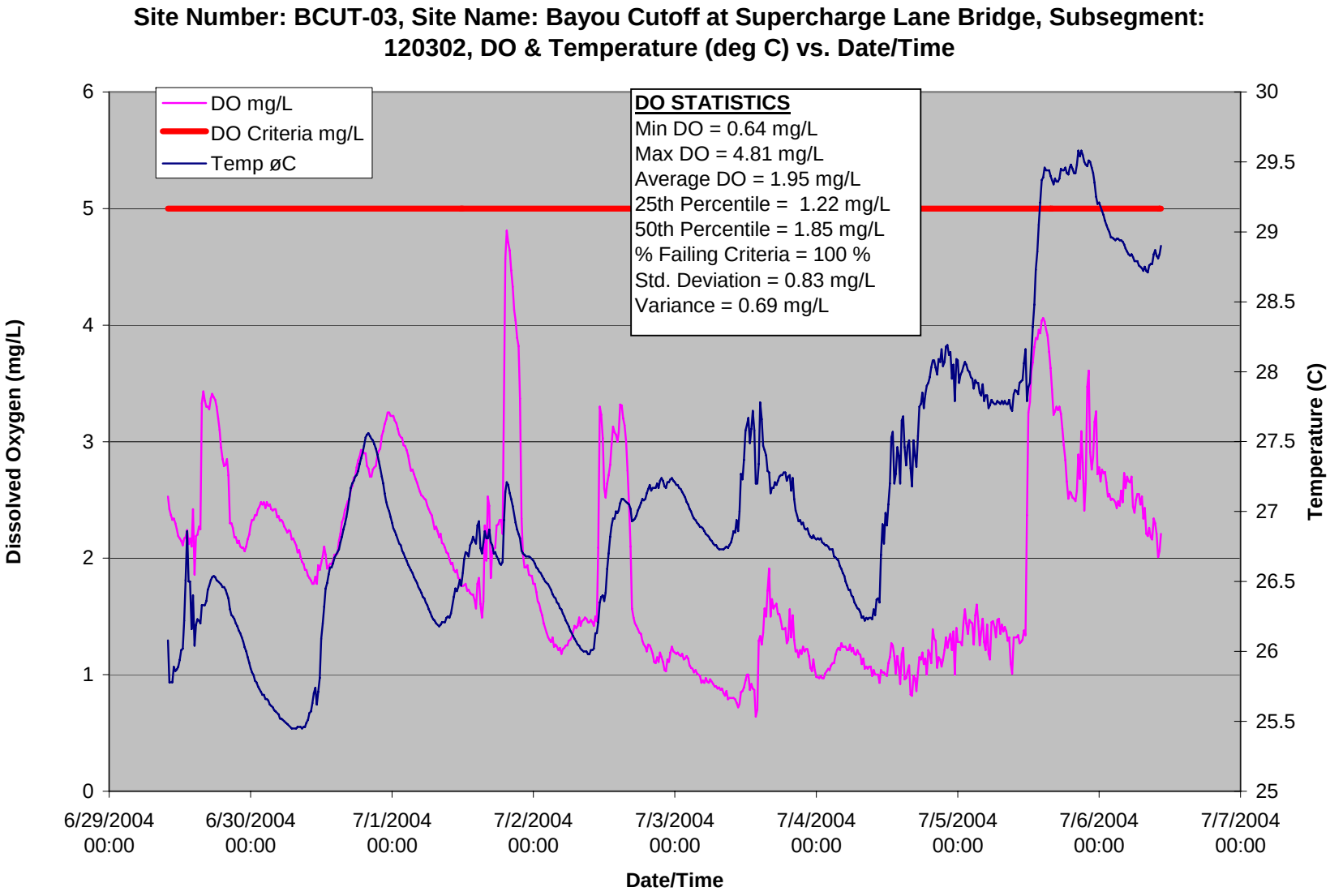
7/3/2004	20:00	7/3/2004	20:00	29.14	7.18	0.365	0.275	35.8	2.75	11.1	1	5
7/3/2004	20:15	7/3/2004	20:15	29.33	7.18	0.336	0.272	36	2.75	11.1	1	5
7/3/2004	20:30	7/3/2004	20:30	29.27	7.17	0.342	0.271	35.6	2.72	11.1	1	5
7/3/2004	20:45	7/3/2004	20:45	29.21	7.18	0.352	0.268	36.1	2.76	11.1	1	5
7/3/2004	21:00	7/3/2004	21:00	29.05	7.19	0.371	0.265	38.8	2.98	11.1	1	5
7/3/2004	21:15	7/3/2004	21:15	29.17	7.18	0.339	0.266	35.9	2.75	11.1	1	5
7/3/2004	21:30	7/3/2004	21:30	28.95	7.18	0.351	0.261	35.4	2.72	11.1	1	5
7/3/2004	21:45	7/3/2004	21:45	29.04	7.17	0.346	0.261	32.7	2.51	11.1	1	5
7/3/2004	22:00	7/3/2004	22:00	28.78	7.15	0.354	0.256	31.6	2.44	11.1	1	5
7/3/2004	22:15	7/3/2004	22:15	28.96	7.15	0.342	0.254	32.5	2.5	11.1	1	5
7/3/2004	22:30	7/3/2004	22:30	28.89	7.15	0.338	0.253	32.2	2.48	11.1	1	5
7/3/2004	22:45	7/3/2004	22:45	28.88	7.16	0.33	0.251	31.5	2.42	11.1	1	5
7/3/2004	23:00	7/3/2004	23:00	28.72	7.14	0.351	0.248	31.2	2.41	11	1	5
7/3/2004	23:15	7/3/2004	23:15	28.72	7.15	0.347	0.246	30.8	2.38	11.1	1	5
7/3/2004	23:30	7/3/2004	23:30	28.75	7.15	0.344	0.246	30.7	2.37	11.1	1	5
7/3/2004	23:45	7/3/2004	23:45	28.49	7.14	0.352	0.243	31.1	2.41	11.1	1	5
7/4/2004	0:00	7/4/2004	00:00	28.49	7.15	0.365	0.24	29.5	2.28	11	1	5
7/4/2004	0:15	7/4/2004	00:15	28.55	7.14	0.337	0.238	29.2	2.26	11.1	1	5
7/4/2004	0:30	7/4/2004	00:30	28.35	7.14	0.349	0.235	29.9	2.32	11.1	1	5
7/4/2004	0:45	7/4/2004	00:45	28.37	7.14	0.357	0.234	30.5	2.37	11.1	1	5
7/4/2004	1:00	7/4/2004	01:00	28.15	7.15	0.371	0.232	29.5	2.3	11	1	5
7/4/2004	1:15	7/4/2004	01:15	28.37	7.15	0.343	0.23	30.3	2.35	11	1	5
7/4/2004	1:30	7/4/2004	01:30	28.26	7.14	0.335	0.228	29.1	2.27	11	1	5
7/4/2004	1:45	7/4/2004	01:45	28.16	7.13	0.36	0.227	29.8	2.32	11	1	5
7/4/2004	2:00	7/4/2004	02:00	28.17	7.15	0.344	0.225	30.5	2.38	11	1	5
7/4/2004	2:15	7/4/2004	02:15	28.02	7.14	0.354	0.224	30.8	2.4	11	1	5
7/4/2004	2:30	7/4/2004	02:30	28.14	7.15	0.333	0.221	30.4	2.37	11	1	5
7/4/2004	2:45	7/4/2004	02:45	27.87	7.15	0.365	0.219	29.6	2.32	11	1	5
7/4/2004	3:00	7/4/2004	03:00	27.89	7.15	0.365	0.218	29.3	2.29	11	1	5
7/4/2004	3:15	7/4/2004	03:15	27.81	7.15	0.365	0.216	29.7	2.33	11	1	5
7/4/2004	3:30	7/4/2004	03:30	27.83	7.15	0.356	0.215	29.5	2.31	11	1	5
7/4/2004	3:45	7/4/2004	03:45	27.73	7.15	0.366	0.214	29	2.27	11	1	5
7/4/2004	4:00	7/4/2004	04:00	27.77	7.15	0.347	0.211	29.2	2.29	11.1	1	5

7/4/2004	4:15	7/4/2004 04:15	27.71	7.15	0.352	0.21	28.9	2.27	11	1	5
7/4/2004	4:30	7/4/2004 04:30	27.57	7.15	0.365	0.208	29.1	2.29	11	1	5
7/4/2004	4:45	7/4/2004 04:45	27.59	7.15	0.349	0.205	29	2.28	11	1	5
7/4/2004	5:00	7/4/2004 05:00	27.6	7.15	0.341	0.204	29.2	2.3	11	1	5
7/4/2004	5:15	7/4/2004 05:15	27.27	7.14	0.374	0.203	29.4	2.33	11	1	5
7/4/2004	5:30	7/4/2004 05:30	27.33	7.15	0.358	0.202	29	2.29	11	1	5
7/4/2004	5:45	7/4/2004 05:45	27.19	7.15	0.357	0.2	30.3	2.4	11	1	5
7/4/2004	6:00	7/4/2004 06:00	27.27	7.16	0.351	0.198	29.3	2.32	11	1	5
7/4/2004	6:15	7/4/2004 06:15	27.18	7.16	0.359	0.195	29.2	2.32	11	1	5
7/4/2004	6:30	7/4/2004 06:30	27.11	7.16	0.376	0.194	30	2.38	11	1	5
7/4/2004	6:45	7/4/2004 06:45	27.1	7.16	0.372	0.193	29.7	2.36	11	1	5
7/4/2004	7:00	7/4/2004 07:00	27.07	7.16	0.364	0.192	29.1	2.31	10.9	1	5
7/4/2004	7:15	7/4/2004 07:15	27.03	7.16	0.369	0.19	28.5	2.26	11	1	5
7/4/2004	7:30	7/4/2004 07:30	27.09	7.16	0.365	0.188	27.4	2.18	11	1	5
7/4/2004	7:45	7/4/2004 07:45	27.09	7.16	0.379	0.187	27.9	2.22	10.9	1	5
7/4/2004	8:00	7/4/2004 08:00	27.05	7.17	0.377	0.185	28.9	2.3	11	1	5
7/4/2004	8:15	7/4/2004 08:15	27.13	7.16	0.363	0.183	27.9	2.22	10.9	1	5
7/4/2004	8:30	7/4/2004 08:30	27.14	7.16	0.359	0.182	28.4	2.25	11	1	5
7/4/2004	8:45	7/4/2004 08:45	27.22	7.16	0.362	0.18	27.9	2.21	11	1	5
7/4/2004	9:00	7/4/2004 09:00	27.31	7.16	0.368	0.18	27.6	2.18	11	1	5
7/4/2004	9:15	7/4/2004 09:15	27.36	7.15	0.378	0.179	26.5	2.1	10.9	1	5

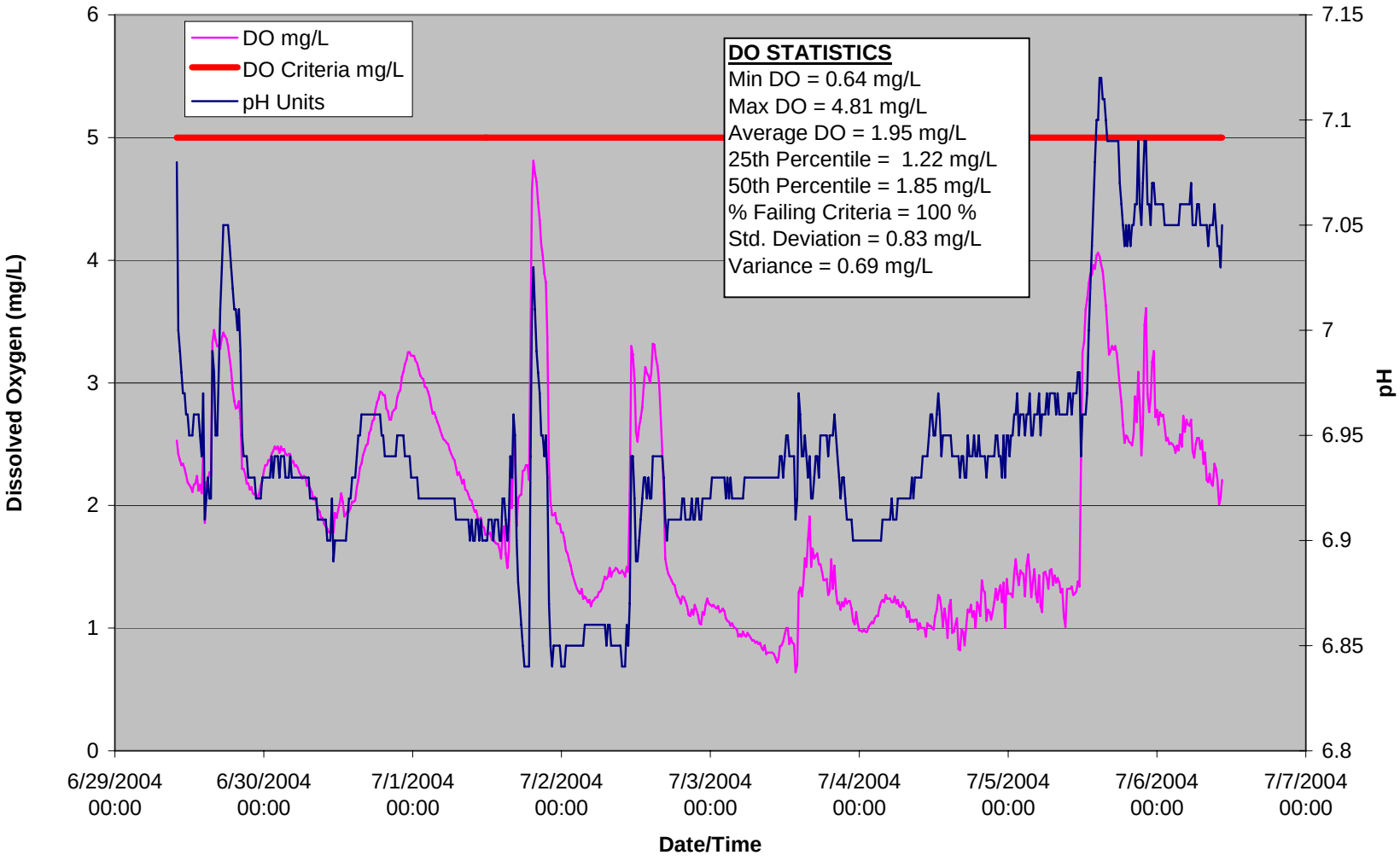
Site Number: BCUT-01 Site Name: Bayou Cutoff at Bowie Road
Subsegment #: 120302 Date: 6/29/2004

	Temp deg C	pH	SpCond uS/cm	Depth	DO %	DO mg/L
Minimum	25.52	7.07	0.11	0.16	26.50	2.10
Maximum	30.98	8.30	0.63	0.46	91.30	7.20
Average	27.73	7.18	0.30	0.26	48.31	3.79
25th Percentile	26.86	7.13	0.26	0.20	36.88	2.90
30th Percentile	26.99	7.14	0.27	0.21	39.80	3.07
40th Percentile	27.16	7.15	0.31	0.22	43.02	3.37
50th Percentile	27.51	7.16	0.32	0.24	47.70	3.77
Standard Deviation	1.20	0.10	0.08	0.08	13.36	1.04
Variance	1.44	0.01	0.01	0.01	178.46	1.08

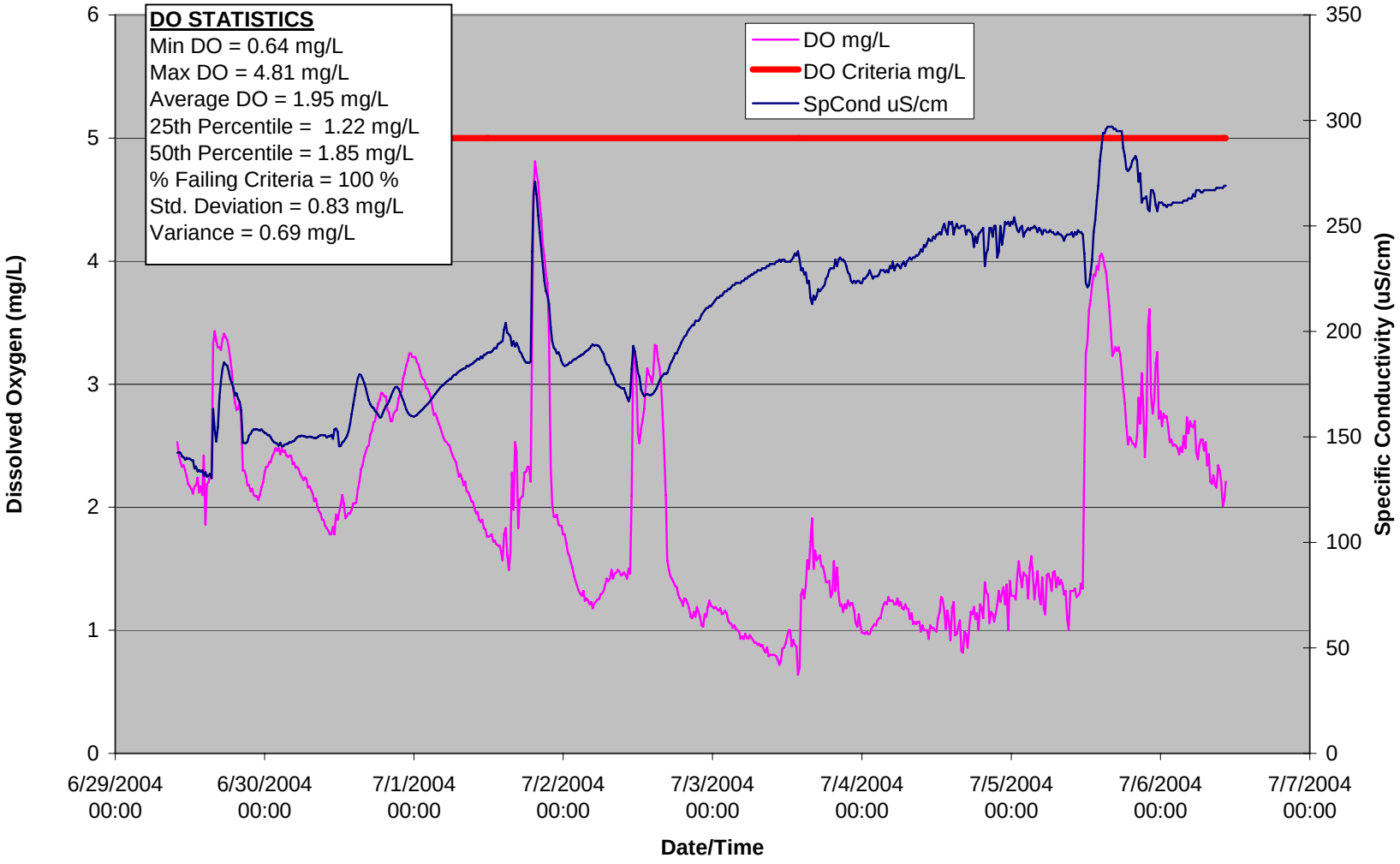
Data Row Count	480	
Total Values Failing DO Criteria	415	
Percent failing DO Criteria	86.46	%


Site Number: BCUT-03, Site Name: Bayou Cutoff at Supercharge Lane Bridge, Subsegment: 120302, DO & Temperature (deg C) vs. Date/Time
DO mg/L
DO Criteria mg/L
Temp øC
DO STATISTICS
Min DO = 0.64 mg/L
Max DO = 4.81 mg/L
Average DO = 1.95 mg/L
25th Percentile = 1.22 mg/L
50th Percentile = 1.85 mg/L
% Failing Criteria = 100 %
Std. Deviation = 0.83 mg/L
Variance = 0.69 mg/L
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
0
1
2
3
4
5
6
25
25.5
26
26.5
27
27.5
28
28.5
29
29.5
30
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00

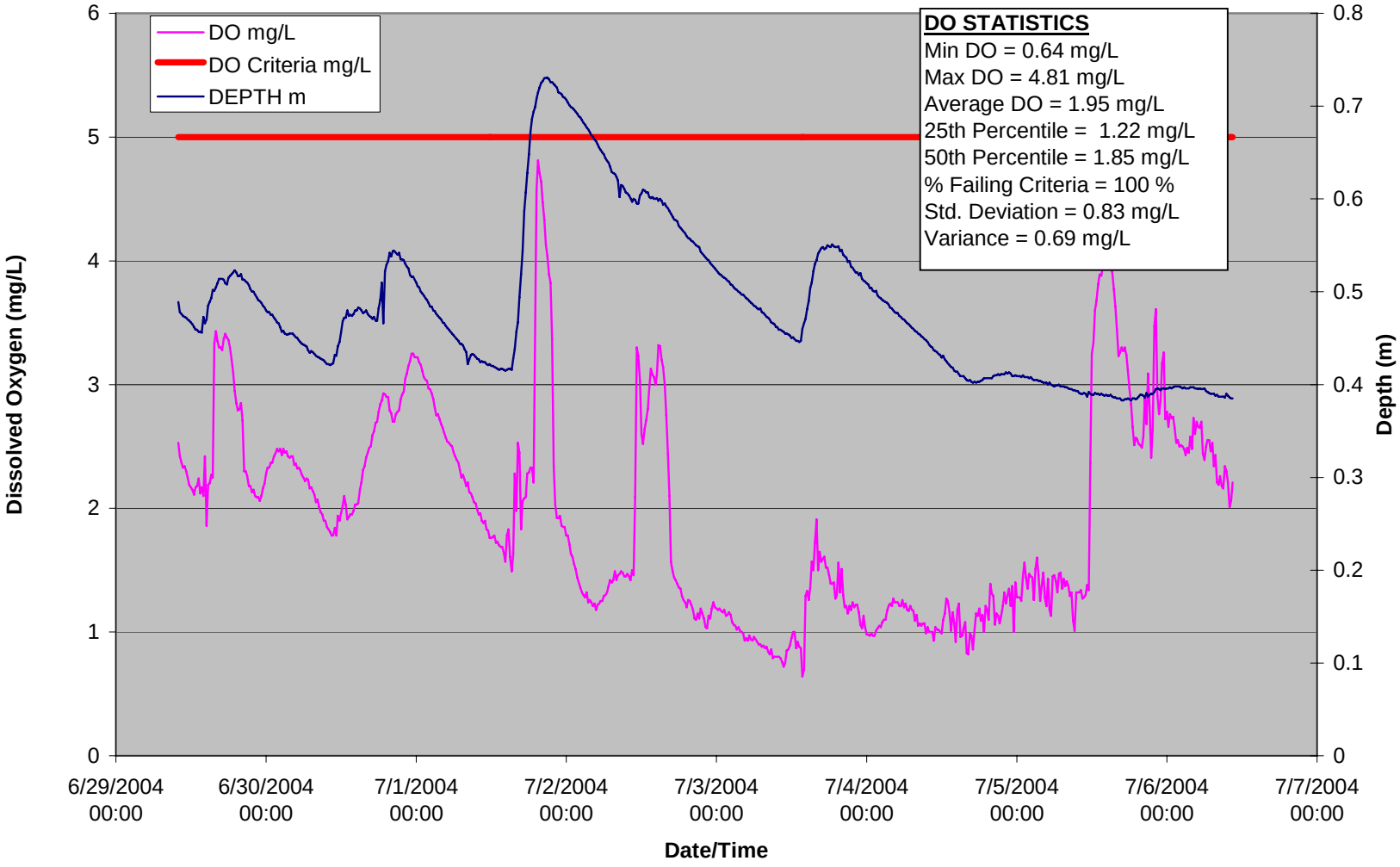
Site Number: BCUT-03, Site Name: Bayou Cutoff at Supercharge Lane Bridge, Subsegment: 120302, DO & pH vs. Date/Time



Site Number: BCUT-03, Site Name: Bayou Cutoff at Supercharge Lane Bridge, Subsegment: 120302, DO & Specific Conductivity vs. Date/Time



Site Number: BCUT-03, Site Name: Bayou Cutoff at Supercharge Lane Bridge, Subsegment: 120302, DO & Depth vs. Date/Time



Bayou Cutoff Subsegment 120302

BCUT-03 Continuous Monitoring Data

Date_	Time	Temp	pH	SpCond		DEPTH		DO PERCENT			DO	SALINITY	Is DO < Criteria	DO Criteria
MMDDYY	HHMM			øC	Units	uS/cm	m	Sat	mg/L	ppt	5	mg/L		
6/29/2004	10:00	26.08	7.08	142.5	0.489	31.2	2.53	0.07	1	5				
6/29/2004	10:15	25.78	7	142.8	0.478	29.7	2.42	0.07	1	5				
6/29/2004	10:30	25.78	6.99	142.5	0.476	29.1	2.37	0.07	1	5				
6/29/2004	10:45	25.78	6.98	140.8	0.474	28.6	2.33	0.07	1	5				
6/29/2004	11:00	25.89	6.97	140.4	0.473	28.8	2.34	0.07	1	5				
6/29/2004	11:15	25.86	6.97	139.2	0.472	28.3	2.3	0.07	1	5				
6/29/2004	11:30	25.87	6.96	140	0.47	27.7	2.25	0.07	1	5				
6/29/2004	11:45	25.89	6.96	139.6	0.469	26.9	2.19	0.07	1	5				
6/29/2004	12:00	25.94	6.95	139.7	0.467	26.7	2.17	0.07	1	5				
6/29/2004	12:15	26.01	6.95	139.1	0.465	26.5	2.15	0.07	1	5				
6/29/2004	12:30	26.02	6.95	138.9	0.462	26	2.11	0.07	1	5				
6/29/2004	12:45	26.22	6.96	135	0.459	26.9	2.17	0.07	1	5				
6/29/2004	13:00	26.51	6.96	136	0.459	27.2	2.18	0.07	1	5				
6/29/2004	13:15	26.86	6.96	133.6	0.457	28.1	2.24	0.07	1	5				
6/29/2004	13:30	26.5	6.96	134.3	0.457	26.4	2.12	0.07	1	5				
6/29/2004	13:45	26.5	6.95	133.5	0.456	27	2.17	0.07	1	5				
6/29/2004	14:00	26.16	6.94	134.2	0.473	25.9	2.1	0.07	1	5				
6/29/2004	14:15	26.4	6.97	131.6	0.466	30	2.42	0.07	1	5				
6/29/2004	14:30	26.04	6.91	133.4	0.47	23	1.86	0.07	1	5				
6/29/2004	14:45	26.19	6.92	131.2	0.485	27.1	2.19	0.07	1	5				
6/29/2004	15:00	26.23	6.93	131.7	0.489	27.2	2.2	0.07	1	5				
6/29/2004	15:15	26.22	6.92	132.6	0.493	28.1	2.27	0.07	1	5				
6/29/2004	15:30	26.2	6.92	130.5	0.502	27.9	2.25	0.07	1	5				
6/29/2004	15:45	26.33	6.99	163.3	0.501	41.3	3.33	0.08	1	5				
6/29/2004	16:00	26.33	6.98	153.4	0.505	42.5	3.43	0.08	1	5				
6/29/2004	16:15	26.33	6.95	147.8	0.509	41.5	3.35	0.07	1	5				
6/29/2004	16:30	26.36	6.95	154.7	0.514	40.9	3.3	0.08	1	5				
6/29/2004	16:45	26.44	6.98	168.4	0.514	41	3.3	0.08	1	5				
6/29/2004	17:00	26.47	7.01	176.4	0.514	40.8	3.28	0.09	1	5				

6/29/2004	17:15	26.51	7.03	182.6	0.513	42	3.37	0.09	1	5
6/29/2004	17:30	26.53	7.05	185.2	0.509	42.5	3.41	0.09	1	5
6/29/2004	17:45	26.54	7.05	184.3	0.508	42.1	3.38	0.09	1	5
6/29/2004	18:00	26.53	7.05	183.8	0.515	41.8	3.36	0.09	1	5
6/29/2004	18:15	26.51	7.05	181	0.517	41.1	3.3	0.09	1	5
6/29/2004	18:30	26.5	7.04	177.3	0.519	39.8	3.2	0.09	1	5
6/29/2004	18:45	26.49	7.03	175.6	0.521	38.6	3.1	0.09	1	5
6/29/2004	19:00	26.48	7.02	173.2	0.523	36.6	2.95	0.09	1	5
6/29/2004	19:15	26.46	7.01	169.7	0.521	35.5	2.85	0.08	1	5
6/29/2004	19:30	26.46	7.01	170.6	0.517	34.7	2.79	0.08	1	5
6/29/2004	19:45	26.44	7	167.9	0.517	34.8	2.8	0.08	1	5
6/29/2004	20:00	26.41	7.01	166.6	0.519	35.4	2.85	0.08	1	5
6/29/2004	20:15	26.38	6.99	162.5	0.513	33.7	2.71	0.08	1	5
6/29/2004	20:30	26.3	6.95	147.2	0.513	28.5	2.3	0.07	1	5
6/29/2004	20:45	26.26	6.94	147.3	0.511	28.6	2.3	0.07	1	5
6/29/2004	21:00	26.25	6.94	147	0.51	28.1	2.26	0.07	1	5
6/29/2004	21:15	26.23	6.94	147.8	0.507	27.2	2.18	0.07	1	5
6/29/2004	21:30	26.2	6.93	150.6	0.503	27	2.18	0.07	1	5
6/29/2004	21:45	26.18	6.93	151.5	0.5	26.4	2.13	0.08	1	5
6/29/2004	22:00	26.15	6.93	152.8	0.5	26.5	2.15	0.08	1	5
6/29/2004	22:15	26.13	6.93	153.6	0.497	26	2.1	0.08	1	5
6/29/2004	22:30	26.1	6.93	153.6	0.494	25.8	2.09	0.08	1	5
6/29/2004	22:45	26.07	6.92	153.7	0.491	25.8	2.09	0.08	1	5
6/29/2004	23:00	26.03	6.92	153.3	0.49	25.4	2.06	0.08	1	5
6/29/2004	23:15	26	6.92	153.1	0.488	25.9	2.1	0.08	1	5
6/29/2004	23:30	25.96	6.92	153.6	0.485	26.6	2.16	0.08	1	5
6/29/2004	23:45	25.92	6.93	152.7	0.483	27.1	2.2	0.08	1	5
6/30/2004	0:00	25.88	6.93	152	0.48	28.1	2.28	0.08	1	5
6/30/2004	0:15	25.85	6.93	151.7	0.478	28.6	2.33	0.08	1	5
6/30/2004	0:30	25.83	6.93	150.9	0.478	28.7	2.33	0.07	1	5
6/30/2004	0:45	25.79	6.93	150.9	0.475	29.1	2.37	0.07	1	5
6/30/2004	1:00	25.78	6.93	149.8	0.475	29.1	2.37	0.07	1	5
6/30/2004	1:15	25.75	6.94	148.4	0.472	29.7	2.42	0.07	1	5

6/30/2004	1:30	25.73	6.93	147.5	0.47	29.9	2.44	0.07	1	5
6/30/2004	1:45	25.71	6.94	147.3	0.467	30.4	2.48	0.07	1	5
6/30/2004	2:00	25.69	6.94	146.7	0.466	30.2	2.46	0.07	1	5
6/30/2004	2:15	25.69	6.94	145.8	0.462	30.4	2.48	0.07	1	5
6/30/2004	2:30	25.66	6.93	147.3	0.457	29.8	2.43	0.07	1	5
6/30/2004	2:45	25.66	6.94	145.6	0.458	30.4	2.48	0.07	1	5
6/30/2004	3:00	25.65	6.94	145.6	0.455	30.1	2.45	0.07	1	5
6/30/2004	3:15	25.62	6.94	146.4	0.454	30.2	2.46	0.07	1	5
6/30/2004	3:30	25.61	6.93	146.6	0.454	29.6	2.42	0.07	1	5
6/30/2004	3:45	25.6	6.93	146.8	0.455	29.6	2.41	0.07	1	5
6/30/2004	4:00	25.58	6.93	147.6	0.455	29.6	2.42	0.07	1	5
6/30/2004	4:15	25.57	6.94	147.3	0.455	29.7	2.42	0.07	1	5
6/30/2004	4:30	25.56	6.93	147.9	0.453	28.8	2.35	0.07	1	5
6/30/2004	4:45	25.55	6.93	148.2	0.451	28.9	2.36	0.07	1	5
6/30/2004	5:00	25.52	6.93	149	0.45	28.4	2.32	0.07	1	5
6/30/2004	5:15	25.52	6.93	149.8	0.448	28.5	2.33	0.07	1	5
6/30/2004	5:30	25.51	6.93	150.2	0.446	28.2	2.31	0.07	1	5
6/30/2004	5:45	25.5	6.93	150.2	0.444	27.7	2.27	0.07	1	5
6/30/2004	6:00	25.49	6.93	150.6	0.443	27.4	2.25	0.07	1	5
6/30/2004	6:15	25.48	6.93	150.4	0.442	27.1	2.22	0.07	1	5
6/30/2004	6:30	25.47	6.93	150.2	0.441	27.4	2.24	0.07	1	5
6/30/2004	6:45	25.46	6.93	149.9	0.437	27.3	2.23	0.07	1	5
6/30/2004	7:00	25.45	6.93	150	0.434	26.3	2.16	0.07	1	5
6/30/2004	7:15	25.45	6.93	150.1	0.436	26.5	2.17	0.07	1	5
6/30/2004	7:30	25.45	6.92	150	0.435	26.1	2.14	0.07	1	5
6/30/2004	7:45	25.45	6.92	149.7	0.433	25.8	2.11	0.07	1	5
6/30/2004	8:00	25.46	6.92	149.5	0.431	25	2.05	0.07	1	5
6/30/2004	8:15	25.46	6.92	149.5	0.43	25.2	2.07	0.07	1	5
6/30/2004	8:30	25.46	6.92	149.8	0.429	24.5	2.01	0.07	1	5
6/30/2004	8:45	25.45	6.91	150.4	0.428	24.1	1.97	0.07	1	5
6/30/2004	9:00	25.46	6.91	150.9	0.427	23.8	1.95	0.07	1	5
6/30/2004	9:15	25.46	6.91	150.9	0.426	23.2	1.9	0.07	1	5
6/30/2004	9:30	25.49	6.91	150.9	0.424	23.3	1.9	0.07	1	5

6/30/2004	9:45	25.51	6.91	150.7	0.422	22.7	1.85	0.07	1	5
6/30/2004	10:00	25.56	6.91	149.8	0.422	22.4	1.83	0.07	1	5
6/30/2004	10:15	25.57	6.9	150.2	0.421	22.1	1.81	0.07	1	5
6/30/2004	10:30	25.63	6.9	150.3	0.422	21.9	1.78	0.07	1	5
6/30/2004	10:45	25.7	6.9	151	0.423	21.9	1.78	0.07	1	5
6/30/2004	11:00	25.74	6.92	149.1	0.432	22.5	1.84	0.07	1	5
6/30/2004	11:15	25.62	6.89	153.6	0.431	21.8	1.78	0.08	1	5
6/30/2004	11:30	25.71	6.9	153.9	0.441	23.8	1.94	0.08	1	5
6/30/2004	11:45	25.81	6.9	152.5	0.446	23.3	1.9	0.08	1	5
6/30/2004	12:00	26.09	6.9	145.6	0.456	24.2	1.96	0.07	1	5
6/30/2004	12:15	26.2	6.9	145.7	0.468	25	2.02	0.07	1	5
6/30/2004	12:30	26.32	6.9	147.4	0.472	26.1	2.1	0.07	1	5
6/30/2004	12:45	26.45	6.9	147.9	0.472	25.2	2.03	0.07	1	5
6/30/2004	13:00	26.49	6.9	149.1	0.48	23.8	1.91	0.07	1	5
6/30/2004	13:15	26.55	6.9	150.4	0.474	24	1.93	0.07	1	5
6/30/2004	13:30	26.6	6.91	152.4	0.475	24.3	1.95	0.08	1	5
6/30/2004	13:45	26.6	6.92	156.2	0.474	24.4	1.95	0.08	1	5
6/30/2004	14:00	26.63	6.92	160.8	0.476	24.7	1.98	0.08	1	5
6/30/2004	14:15	26.67	6.93	165.3	0.48	25.3	2.03	0.08	1	5
6/30/2004	14:30	26.69	6.93	169.7	0.48	25.4	2.03	0.08	1	5
6/30/2004	14:45	26.71	6.93	174	0.483	25.5	2.04	0.09	1	5
6/30/2004	15:00	26.73	6.94	178	0.482	26.8	2.15	0.09	1	5
6/30/2004	15:15	26.78	6.95	179.6	0.48	27.7	2.21	0.09	1	5
6/30/2004	15:30	26.82	6.95	179.2	0.477	28.9	2.31	0.09	1	5
6/30/2004	15:45	26.87	6.96	177.6	0.478	29.4	2.34	0.09	1	5
6/30/2004	16:00	26.91	6.96	175.8	0.48	30.2	2.41	0.09	1	5
6/30/2004	16:15	26.96	6.96	173.2	0.476	30.7	2.45	0.09	1	5
6/30/2004	16:30	27.02	6.96	170.1	0.474	31.2	2.49	0.08	1	5
6/30/2004	16:45	27.09	6.96	167.4	0.473	31.5	2.5	0.08	1	5
6/30/2004	17:00	27.17	6.96	165.5	0.471	32.7	2.59	0.08	1	5
6/30/2004	17:15	27.2	6.96	164.3	0.473	33.1	2.62	0.08	1	5
6/30/2004	17:30	27.22	6.96	163.7	0.469	33.9	2.69	0.08	1	5
6/30/2004	17:45	27.25	6.96	162.3	0.469	34.1	2.7	0.08	1	5

6/30/2004	18:00	27.26	6.96	161.8	0.482	35.1	2.78	0.08	1	5
6/30/2004	18:15	27.29	6.96	160.4	0.491	35.9	2.84	0.08	1	5
6/30/2004	18:30	27.34	6.96	159.2	0.51	36.3	2.87	0.08	1	5
6/30/2004	18:45	27.38	6.96	159.3	0.466	37	2.93	0.08	1	5
6/30/2004	19:00	27.42	6.95	161.4	0.522	37	2.92	0.08	1	5
6/30/2004	19:15	27.47	6.95	163	0.529	36.7	2.9	0.08	1	5
6/30/2004	19:30	27.53	6.94	164.7	0.533	36.7	2.9	0.08	1	5
6/30/2004	19:45	27.55	6.94	165.5	0.542	35.4	2.79	0.08	1	5
6/30/2004	20:00	27.56	6.94	167	0.538	35.1	2.77	0.08	1	5
6/30/2004	20:15	27.54	6.94	168.9	0.544	34.2	2.7	0.08	1	5
6/30/2004	20:30	27.52	6.94	170.8	0.544	34.2	2.7	0.08	1	5
6/30/2004	20:45	27.51	6.94	172.4	0.542	35	2.76	0.08	1	5
6/30/2004	21:00	27.48	6.94	173.6	0.54	35.3	2.78	0.09	1	5
6/30/2004	21:15	27.45	6.94	173.7	0.542	35.4	2.79	0.09	1	5
6/30/2004	21:30	27.41	6.95	172.8	0.535	36.5	2.88	0.09	1	5
6/30/2004	21:45	27.36	6.95	171.2	0.535	36.9	2.92	0.08	1	5
6/30/2004	22:00	27.31	6.95	169.3	0.534	37.1	2.94	0.08	1	5
6/30/2004	22:15	27.25	6.95	167.6	0.53	38.4	3.05	0.08	1	5
6/30/2004	22:30	27.2	6.95	165.5	0.527	39	3.09	0.08	1	5
6/30/2004	22:45	27.13	6.94	163.2	0.525	39.6	3.15	0.08	1	5
6/30/2004	23:00	27.07	6.94	161.6	0.518	40.1	3.19	0.08	1	5
6/30/2004	23:15	27.03	6.94	160.6	0.516	40.8	3.25	0.08	1	5
6/30/2004	23:30	27	6.94	160.1	0.516	40.8	3.25	0.08	1	5
6/30/2004	23:45	26.96	6.93	159.8	0.513	40.4	3.22	0.08	1	5
7/1/2004	0:00	26.92	6.93	159.7	0.51	40.4	3.22	0.08	1	5
7/1/2004	0:15	26.88	6.93	159.9	0.506	40.3	3.22	0.08	1	5
7/1/2004	0:30	26.86	6.93	160.3	0.505	39.8	3.18	0.08	1	5
7/1/2004	0:45	26.83	6.93	161.3	0.5	39.6	3.16	0.08	1	5
7/1/2004	1:00	26.8	6.92	161.9	0.498	38.9	3.11	0.08	1	5
7/1/2004	1:15	26.77	6.92	162.6	0.496	38.3	3.06	0.08	1	5
7/1/2004	1:30	26.76	6.92	163.3	0.493	38.1	3.04	0.08	1	5
7/1/2004	1:45	26.72	6.92	164.2	0.491	37.9	3.03	0.08	1	5
7/1/2004	2:00	26.7	6.92	164.9	0.488	37	2.97	0.08	1	5

7/1/2004	2:15	26.67	6.92	165.7	0.484	37	2.96	0.08	1	5
7/1/2004	2:30	26.65	6.92	166.5	0.484	36.5	2.93	0.08	1	5
7/1/2004	2:45	26.62	6.92	167.7	0.48	35.9	2.88	0.08	1	5
7/1/2004	3:00	26.6	6.92	168.5	0.479	35.1	2.81	0.08	1	5
7/1/2004	3:15	26.58	6.92	169.5	0.476	34.3	2.75	0.08	1	5
7/1/2004	3:30	26.56	6.92	170.5	0.474	34.3	2.76	0.08	1	5
7/1/2004	3:45	26.53	6.92	171.5	0.472	33.8	2.72	0.08	1	5
7/1/2004	4:00	26.51	6.92	172.5	0.47	33.3	2.68	0.08	1	5
7/1/2004	4:15	26.49	6.92	173.5	0.467	33	2.65	0.09	1	5
7/1/2004	4:30	26.46	6.92	174.1	0.466	32.5	2.61	0.09	1	5
7/1/2004	4:45	26.44	6.92	174.7	0.463	32	2.57	0.09	1	5
7/1/2004	5:00	26.42	6.92	175.4	0.461	31.6	2.54	0.09	1	5
7/1/2004	5:15	26.39	6.92	176.2	0.459	31.5	2.53	0.09	1	5
7/1/2004	5:30	26.38	6.92	176.6	0.457	31.2	2.51	0.09	1	5
7/1/2004	5:45	26.35	6.92	177.4	0.455	31	2.5	0.09	1	5
7/1/2004	6:00	26.33	6.92	177.5	0.453	30.3	2.45	0.09	1	5
7/1/2004	6:15	26.3	6.92	178.7	0.451	30	2.42	0.09	1	5
7/1/2004	6:30	26.28	6.92	179.3	0.449	29.4	2.39	0.09	1	5
7/1/2004	6:45	26.25	6.92	179.5	0.447	29.4	2.37	0.09	1	5
7/1/2004	7:00	26.23	6.91	180.5	0.444	28.7	2.31	0.09	1	5
7/1/2004	7:15	26.22	6.91	181	0.444	27.8	2.25	0.09	1	5
7/1/2004	7:30	26.2	6.91	181.6	0.442	28.1	2.27	0.09	1	5
7/1/2004	7:45	26.19	6.91	181.9	0.438	27.5	2.23	0.09	1	5
7/1/2004	8:00	26.18	6.91	182.4	0.435	27	2.18	0.09	1	5
7/1/2004	8:15	26.19	6.91	182.6	0.422	27.3	2.21	0.09	1	5
7/1/2004	8:30	26.21	6.91	183.6	0.427	26.4	2.13	0.09	1	5
7/1/2004	8:45	26.21	6.91	183.4	0.432	26.3	2.12	0.09	1	5
7/1/2004	9:00	26.21	6.91	184	0.433	25.9	2.09	0.09	1	5
7/1/2004	9:15	26.24	6.9	184.4	0.432	25.4	2.05	0.09	1	5
7/1/2004	9:30	26.25	6.91	184.9	0.43	25.3	2.04	0.09	1	5
7/1/2004	9:45	26.24	6.9	185.8	0.428	24.6	1.99	0.09	1	5
7/1/2004	10:00	26.27	6.9	186.3	0.427	24.2	1.95	0.09	1	5
7/1/2004	10:15	26.33	6.91	187.1	0.424	24.4	1.96	0.09	1	5

7/1/2004	10:30	26.39	6.91	186.7	0.425	23.6	1.9	0.09	1	5
7/1/2004	10:45	26.45	6.9	188.1	0.424	23.4	1.88	0.09	1	5
7/1/2004	11:00	26.43	6.91	187.3	0.424	23.6	1.9	0.09	1	5
7/1/2004	11:15	26.46	6.9	188.8	0.422	22.8	1.83	0.09	1	5
7/1/2004	11:30	26.51	6.9	189	0.421	22.7	1.82	0.09	1	5
7/1/2004	11:45	26.47	6.9	189.8	0.422	21.9	1.76	0.09	1	5
7/1/2004	12:00	26.56	6.9	190.2	0.42	21.9	1.76	0.09	1	5
7/1/2004	12:15	26.66	6.91	189.9	0.42	22.1	1.77	0.09	1	5
7/1/2004	12:30	26.71	6.91	190.4	0.419	22.2	1.78	0.09	1	5
7/1/2004	12:45	26.7	6.91	191.4	0.418	21.5	1.72	0.09	1	5
7/1/2004	13:00	26.68	6.9	192.2	0.417	21.5	1.73	0.09	1	5
7/1/2004	13:15	26.76	6.91	192	0.416	21.3	1.7	0.09	1	5
7/1/2004	13:30	26.78	6.91	194	0.417	21.1	1.69	0.09	1	5
7/1/2004	13:45	26.82	6.91	194.4	0.417	21.1	1.69	0.1	1	5
7/1/2004	14:00	26.79	6.9	195	0.416	20.5	1.64	0.1	1	5
7/1/2004	14:15	26.77	6.9	195.4	0.415	19.7	1.57	0.1	1	5
7/1/2004	14:30	26.9	6.92	201	0.416	22.3	1.78	0.1	1	5
7/1/2004	14:45	26.93	6.92	204	0.417	22.9	1.83	0.1	1	5
7/1/2004	15:00	26.74	6.91	199.4	0.417	20.1	1.61	0.1	1	5
7/1/2004	15:15	26.7	6.9	198.6	0.416	18.6	1.49	0.1	1	5
7/1/2004	15:30	26.78	6.91	197.6	0.428	20.4	1.63	0.1	1	5
7/1/2004	15:45	26.86	6.94	193.2	0.438	28.5	2.28	0.09	1	5
7/1/2004	16:00	26.81	6.93	195.3	0.457	24.8	1.98	0.1	1	5
7/1/2004	16:15	26.81	6.96	192.9	0.467	31.7	2.53	0.09	1	5
7/1/2004	16:30	26.87	6.95	194.5	0.494	30.6	2.45	0.1	1	5
7/1/2004	16:45	26.78	6.9	192.7	0.519	22.9	1.83	0.09	1	5
7/1/2004	17:00	26.76	6.88	190.6	0.543	25.8	2.06	0.09	1	5
7/1/2004	17:15	26.7	6.87	189.5	0.587	26	2.08	0.09	1	5
7/1/2004	17:30	26.71	6.86	187.7	0.607	26.1	2.09	0.09	1	5
7/1/2004	17:45	26.68	6.85	186.4	0.628	28.5	2.28	0.09	1	5
7/1/2004	18:00	26.66	6.84	185.3	0.648	28.5	2.29	0.09	1	5
7/1/2004	18:15	26.63	6.84	185.2	0.672	29.1	2.33	0.09	1	5
7/1/2004	18:30	26.62	6.84	185	0.686	29	2.33	0.09	1	5

7/1/2004	18:45	26.64	6.84	185.8	0.694	27.6	2.21	0.09	1	5
7/1/2004	19:00	26.94	6.94	238	0.699	43	3.43	0.12	1	5
7/1/2004	19:15	27.14	7.01	265	0.708	57.5	4.57	0.13	1	5
7/1/2004	19:30	27.21	7.03	271	0.715	60.6	4.81	0.13	1	5
7/1/2004	19:45	27.19	7.01	265	0.72	59.4	4.71	0.13	1	5
7/1/2004	20:00	27.13	6.99	255	0.725	58.4	4.64	0.12	1	5
7/1/2004	20:15	27.09	6.98	247	0.727	56.2	4.47	0.12	1	5
7/1/2004	20:30	27.04	6.97	239	0.73	54.5	4.33	0.12	1	5
7/1/2004	20:45	26.98	6.95	231	0.73	51.8	4.13	0.11	1	5
7/1/2004	21:00	26.92	6.95	224	0.731	50.6	4.04	0.11	1	5
7/1/2004	21:15	26.87	6.94	219	0.729	48.7	3.89	0.11	1	5
7/1/2004	21:30	26.84	6.95	217	0.726	47.8	3.82	0.11	1	5
7/1/2004	21:45	26.81	6.93	213	0.726	42.1	3.37	0.1	1	5
7/1/2004	22:00	26.72	6.87	202	0.724	29.3	2.34	0.1	1	5
7/1/2004	22:15	26.7	6.85	195.5	0.722	25.4	2.03	0.1	1	5
7/1/2004	22:30	26.69	6.84	192.3	0.72	24	1.92	0.09	1	5
7/1/2004	22:45	26.68	6.85	191.5	0.715	23.9	1.92	0.09	1	5
7/1/2004	23:00	26.68	6.85	189.5	0.714	24.2	1.94	0.09	1	5
7/1/2004	23:15	26.68	6.85	190.1	0.713	23.2	1.86	0.09	1	5
7/1/2004	23:30	26.67	6.85	188.4	0.71	23.1	1.85	0.09	1	5
7/1/2004	23:45	26.66	6.85	185.9	0.709	23.1	1.85	0.09	1	5
7/2/2004	0:00	26.65	6.84	184.3	0.707	22.2	1.78	0.09	1	5
7/2/2004	0:15	26.63	6.84	183.6	0.704	22.1	1.78	0.09	1	5
7/2/2004	0:30	26.6	6.84	183.9	0.701	21.3	1.71	0.09	1	5
7/2/2004	0:45	26.59	6.85	184.3	0.699	20.3	1.63	0.09	1	5
7/2/2004	1:00	26.57	6.85	185.1	0.698	20	1.61	0.09	1	5
7/2/2004	1:15	26.56	6.85	185.2	0.696	19.3	1.55	0.09	1	5
7/2/2004	1:30	26.54	6.85	186.1	0.694	18.8	1.51	0.09	1	5
7/2/2004	1:45	26.52	6.85	186.7	0.692	18	1.44	0.09	1	5
7/2/2004	2:00	26.5	6.85	187	0.689	17.5	1.4	0.09	1	5
7/2/2004	2:15	26.49	6.85	187.5	0.688	16.9	1.36	0.09	1	5
7/2/2004	2:30	26.48	6.85	188.1	0.685	16.4	1.32	0.09	1	5
7/2/2004	2:45	26.46	6.85	188.5	0.682	16.2	1.3	0.09	1	5

7/2/2004	3:00	26.44	6.85	189	0.68	15.9	1.28	0.09	1	5
7/2/2004	3:15	26.41	6.85	189.3	0.677	16.4	1.32	0.09	1	5
7/2/2004	3:30	26.39	6.85	190.2	0.675	15.4	1.24	0.09	1	5
7/2/2004	3:45	26.38	6.86	190.8	0.672	15.7	1.26	0.09	1	5
7/2/2004	4:00	26.35	6.86	191.2	0.669	15.4	1.24	0.09	1	5
7/2/2004	4:15	26.34	6.86	191.9	0.667	15	1.21	0.09	1	5
7/2/2004	4:30	26.31	6.86	193	0.664	15.3	1.23	0.09	1	5
7/2/2004	4:45	26.3	6.86	193.9	0.662	14.7	1.18	0.09	1	5
7/2/2004	5:00	26.27	6.86	193.3	0.659	15.2	1.22	0.09	1	5
7/2/2004	5:15	26.25	6.86	193.6	0.655	15.3	1.23	0.09	1	5
7/2/2004	5:30	26.22	6.86	193.4	0.653	15.4	1.25	0.09	1	5
7/2/2004	5:45	26.2	6.86	193	0.65	15.4	1.25	0.09	1	5
7/2/2004	6:00	26.18	6.86	191.8	0.648	15.9	1.29	0.09	1	5
7/2/2004	6:15	26.15	6.86	190.6	0.644	16.1	1.3	0.09	1	5
7/2/2004	6:30	26.13	6.86	189.2	0.641	16.3	1.32	0.09	1	5
7/2/2004	6:45	26.11	6.86	186.3	0.639	16.9	1.37	0.09	1	5
7/2/2004	7:00	26.09	6.86	184.4	0.635	17.5	1.42	0.09	1	5
7/2/2004	7:15	26.07	6.85	184	0.629	17.2	1.4	0.09	1	5
7/2/2004	7:30	26.05	6.86	182.6	0.628	17.6	1.42	0.09	1	5
7/2/2004	7:45	26.04	6.86	180.4	0.627	18.3	1.49	0.09	1	5
7/2/2004	8:00	26.02	6.85	179.3	0.624	17.5	1.42	0.09	1	5
7/2/2004	8:15	26.01	6.85	177.3	0.62	18	1.46	0.09	1	5
7/2/2004	8:30	26	6.85	174.9	0.602	18.2	1.47	0.09	1	5
7/2/2004	8:45	26	6.85	174.4	0.615	18.3	1.49	0.09	1	5
7/2/2004	9:00	26	6.85	174	0.614	18.3	1.48	0.09	1	5
7/2/2004	9:15	25.98	6.85	173.3	0.611	17.7	1.45	0.09	1	5
7/2/2004	9:30	25.98	6.85	173	0.607	17.9	1.45	0.09	1	5
7/2/2004	9:45	26.01	6.84	173.2	0.606	18.1	1.47	0.09	1	5
7/2/2004	10:00	26.01	6.84	170.9	0.604	17.9	1.45	0.08	1	5
7/2/2004	10:15	26.02	6.84	168.9	0.601	17.6	1.42	0.08	1	5
7/2/2004	10:30	26.13	6.86	166.9	0.597	18.5	1.5	0.08	1	5
7/2/2004	10:45	26.13	6.85	169.3	0.6	18.1	1.46	0.08	1	5
7/2/2004	11:00	26.21	6.87	182.2	0.599	25.9	2.09	0.09	1	5

7/2/2004	11:15	26.35	6.94	193.1	0.595	40.9	3.3	0.09	1	5
7/2/2004	11:30	26.39	6.94	190.6	0.595	40.1	3.23	0.09	1	5
7/2/2004	11:45	26.4	6.92	185.5	0.604	37.7	3.03	0.09	1	5
7/2/2004	12:00	26.36	6.89	180.3	0.606	32.3	2.6	0.09	1	5
7/2/2004	12:15	26.42	6.89	178.5	0.61	31.3	2.52	0.09	1	5
7/2/2004	12:30	26.59	6.9	172.5	0.609	32.9	2.64	0.08	1	5
7/2/2004	12:45	26.7	6.91	170.6	0.607	33.9	2.71	0.08	1	5
7/2/2004	13:00	26.82	6.92	169.3	0.607	35.1	2.8	0.08	1	5
7/2/2004	13:15	26.9	6.93	170.1	0.602	37.4	2.98	0.08	1	5
7/2/2004	13:30	26.95	6.93	170.3	0.601	39.2	3.13	0.08	1	5
7/2/2004	13:45	26.95	6.92	170	0.602	38.6	3.08	0.08	1	5
7/2/2004	14:00	27	6.93	169.7	0.6	38.5	3.06	0.08	1	5
7/2/2004	14:15	26.99	6.92	170.1	0.6	37.6	3	0.08	1	5
7/2/2004	14:30	27.01	6.92	170.6	0.601	38.7	3.08	0.08	1	5
7/2/2004	14:45	27.06	6.94	171.7	0.598	41.8	3.32	0.08	1	5
7/2/2004	15:00	27.09	6.94	172.8	0.6	41.7	3.31	0.09	1	5
7/2/2004	15:15	27.09	6.94	174.8	0.598	40.2	3.2	0.09	1	5
7/2/2004	15:30	27.08	6.94	176.6	0.594	39.7	3.14	0.09	1	5
7/2/2004	15:45	27.07	6.94	178.1	0.595	37.7	3	0.09	1	5
7/2/2004	16:00	27.06	6.94	179.1	0.592	34.5	2.75	0.09	1	5
7/2/2004	16:15	27.05	6.94	180.1	0.59	30.7	2.44	0.09	1	5
7/2/2004	16:30	27.02	6.93	179.7	0.587	26.4	2.1	0.09	1	5
7/2/2004	16:45	26.93	6.91	180.4	0.584	19.7	1.57	0.09	1	5
7/2/2004	17:00	26.94	6.9	182.4	0.581	18.6	1.49	0.09	1	5
7/2/2004	17:15	26.95	6.91	184.6	0.578	18	1.44	0.09	1	5
7/2/2004	17:30	26.97	6.91	185.9	0.577	17.8	1.42	0.09	1	5
7/2/2004	17:45	27.01	6.91	187.5	0.576	17.4	1.39	0.09	1	5
7/2/2004	18:00	27.03	6.91	189.5	0.571	17.1	1.36	0.09	1	5
7/2/2004	18:15	27.06	6.91	189.5	0.569	17	1.35	0.09	1	5
7/2/2004	18:30	27.09	6.91	191.5	0.567	16.2	1.29	0.09	1	5
7/2/2004	18:45	27.08	6.91	192.9	0.565	15.9	1.26	0.09	1	5
7/2/2004	19:00	27.09	6.91	194.8	0.563	15.6	1.24	0.1	1	5
7/2/2004	19:15	27.13	6.91	196.2	0.56	15.1	1.2	0.1	1	5

7/2/2004	19:30	27.16	6.92	197.5	0.558	15.8	1.26	0.1	1	5
7/2/2004	19:45	27.19	6.92	198.2	0.557	15.7	1.25	0.1	1	5
7/2/2004	20:00	27.15	6.91	199.9	0.555	15.3	1.22	0.1	1	5
7/2/2004	20:15	27.17	6.91	201	0.554	14.9	1.18	0.1	1	5
7/2/2004	20:30	27.17	6.91	202	0.552	14	1.11	0.1	1	5
7/2/2004	20:45	27.17	6.91	203	0.55	13.9	1.1	0.1	1	5
7/2/2004	21:00	27.2	6.92	203	0.549	14.5	1.15	0.1	1	5
7/2/2004	21:15	27.17	6.91	205	0.548	14	1.11	0.1	1	5
7/2/2004	21:30	27.22	6.91	205	0.543	15	1.19	0.1	1	5
7/2/2004	21:45	27.24	6.92	205	0.541	14.5	1.15	0.1	1	5
7/2/2004	22:00	27.22	6.92	206	0.539	13.9	1.11	0.1	1	5
7/2/2004	22:15	27.18	6.91	208	0.537	13.1	1.04	0.1	1	5
7/2/2004	22:30	27.17	6.91	209	0.535	13	1.03	0.1	1	5
7/2/2004	22:45	27.21	6.92	210	0.534	14.2	1.13	0.1	1	5
7/2/2004	23:00	27.21	6.92	211	0.531	13.9	1.11	0.1	1	5
7/2/2004	23:15	27.23	6.92	211	0.529	15.1	1.19	0.1	1	5
7/2/2004	23:30	27.24	6.92	212	0.527	15.6	1.24	0.1	1	5
7/2/2004	23:45	27.22	6.92	212	0.525	15.1	1.2	0.1	1	5
7/3/2004	0:00	27.21	6.92	213	0.523	15	1.19	0.1	1	5
7/3/2004	0:15	27.19	6.93	214	0.521	14.9	1.18	0.1	1	5
7/3/2004	0:30	27.19	6.93	215	0.519	15	1.19	0.1	1	5
7/3/2004	0:45	27.17	6.93	216	0.518	14.7	1.17	0.1	1	5
7/3/2004	1:00	27.16	6.93	216	0.516	14.6	1.16	0.11	1	5
7/3/2004	1:15	27.14	6.93	217	0.515	14.8	1.18	0.11	1	5
7/3/2004	1:30	27.12	6.93	217	0.514	14.2	1.13	0.11	1	5
7/3/2004	1:45	27.1	6.93	218	0.512	14.4	1.14	0.11	1	5
7/3/2004	2:00	27.07	6.93	219	0.511	14.6	1.16	0.11	1	5
7/3/2004	2:15	27.05	6.93	219	0.508	14.4	1.14	0.11	1	5
7/3/2004	2:30	27.02	6.92	220	0.507	13.5	1.08	0.11	1	5
7/3/2004	2:45	27	6.93	220	0.505	13.3	1.06	0.11	1	5
7/3/2004	3:00	26.97	6.92	221	0.503	13.2	1.05	0.11	1	5
7/3/2004	3:15	26.95	6.93	222	0.502	12.8	1.02	0.11	1	5
7/3/2004	3:30	26.94	6.92	222	0.5	13.1	1.04	0.11	1	5

7/3/2004	3:45	26.92	6.92	223	0.499	12.7	1.01	0.11	1	5
7/3/2004	4:00	26.91	6.92	223	0.497	12.6	1	0.11	1	5
7/3/2004	4:15	26.89	6.92	223	0.497	12.4	0.99	0.11	1	5
7/3/2004	4:30	26.89	6.92	223	0.495	11.7	0.93	0.11	1	5
7/3/2004	4:45	26.88	6.92	224	0.493	11.9	0.95	0.11	1	5
7/3/2004	5:00	26.86	6.92	224	0.492	11.7	0.93	0.11	1	5
7/3/2004	5:15	26.84	6.92	225	0.49	12.2	0.97	0.11	1	5
7/3/2004	5:30	26.83	6.93	225	0.488	11.7	0.94	0.11	1	5
7/3/2004	5:45	26.82	6.93	226	0.487	11.7	0.93	0.11	1	5
7/3/2004	6:00	26.8	6.93	226	0.485	12	0.96	0.11	1	5
7/3/2004	6:15	26.79	6.93	227	0.484	11.7	0.94	0.11	1	5
7/3/2004	6:30	26.77	6.93	227	0.482	11.5	0.92	0.11	1	5
7/3/2004	6:45	26.76	6.93	228	0.481	11.2	0.9	0.11	1	5
7/3/2004	7:00	26.76	6.93	228	0.482	11.2	0.9	0.11	1	5
7/3/2004	7:15	26.74	6.93	229	0.478	11	0.88	0.11	1	5
7/3/2004	7:30	26.73	6.93	229	0.477	11.1	0.89	0.11	1	5
7/3/2004	7:45	26.73	6.93	229	0.475	10.9	0.87	0.11	1	5
7/3/2004	8:00	26.73	6.93	230	0.473	11	0.88	0.11	1	5
7/3/2004	8:15	26.73	6.93	230	0.472	10.5	0.84	0.11	1	5
7/3/2004	8:30	26.74	6.93	230	0.47	10.2	0.82	0.11	1	5
7/3/2004	8:45	26.75	6.93	231	0.467	10.7	0.86	0.11	1	5
7/3/2004	9:00	26.74	6.93	231	0.466	9.9	0.79	0.11	1	5
7/3/2004	9:15	26.76	6.93	232	0.465	10	0.8	0.11	1	5
7/3/2004	9:30	26.78	6.93	232	0.462	10	0.8	0.11	1	5
7/3/2004	9:45	26.81	6.93	232	0.462	10	0.8	0.11	1	5
7/3/2004	10:00	26.86	6.93	232	0.459	10	0.8	0.11	1	5
7/3/2004	10:15	26.85	6.93	233	0.459	9.9	0.79	0.11	1	5
7/3/2004	10:30	26.94	6.93	233	0.458	9.5	0.76	0.11	1	5
7/3/2004	10:45	26.86	6.93	234	0.457	9	0.72	0.11	1	5
7/3/2004	11:00	27	6.93	233	0.455	9.4	0.75	0.11	1	5
7/3/2004	11:15	27.27	6.94	234	0.455	10.7	0.85	0.11	1	5
7/3/2004	11:30	27.23	6.94	234	0.454	10.8	0.86	0.11	1	5
7/3/2004	11:45	27.37	6.93	233	0.453	11.2	0.89	0.11	1	5

7/3/2004	12:00	27.58	6.94	233	0.45	12.1	0.95	0.11	1	5
7/3/2004	12:15	27.62	6.95	233	0.451	12.7	1	0.11	1	5
7/3/2004	12:30	27.67	6.95	233	0.449	12.7	1	0.11	1	5
7/3/2004	12:45	27.49	6.94	234	0.447	11	0.87	0.11	1	5
7/3/2004	13:00	27.59	6.94	235	0.447	11.6	0.92	0.11	1	5
7/3/2004	13:15	27.72	6.94	237	0.446	11.1	0.88	0.11	1	5
7/3/2004	13:30	27.58	6.94	236	0.447	11	0.87	0.11	1	5
7/3/2004	13:45	27.2	6.91	238	0.46	8.1	0.64	0.12	1	5
7/3/2004	14:00	27.2	6.92	234	0.466	8.8	0.7	0.11	1	5
7/3/2004	14:15	27.34	6.97	229	0.471	16.3	1.29	0.11	1	5
7/3/2004	14:30	27.78	6.96	230	0.481	16.9	1.33	0.11	1	5
7/3/2004	14:45	27.66	6.94	227	0.49	16	1.26	0.11	1	5
7/3/2004	15:00	27.47	6.94	228	0.504	17.2	1.36	0.11	1	5
7/3/2004	15:15	27.44	6.95	223	0.51	19.9	1.57	0.11	1	5
7/3/2004	15:30	27.4	6.94	224	0.522	19	1.5	0.11	1	5
7/3/2004	15:45	27.29	6.93	216	0.53	21.8	1.72	0.11	1	5
7/3/2004	16:00	27.28	6.94	213	0.534	24.1	1.91	0.1	1	5
7/3/2004	16:15	27.13	6.92	217	0.541	18.9	1.5	0.11	1	5
7/3/2004	16:30	27.17	6.92	215	0.544	20.8	1.65	0.1	1	5
7/3/2004	16:45	27.17	6.93	217	0.547	19.8	1.57	0.11	1	5
7/3/2004	17:00	27.21	6.94	220	0.548	20	1.59	0.11	1	5
7/3/2004	17:15	27.19	6.94	219	0.546	20.3	1.61	0.11	1	5
7/3/2004	17:30	27.22	6.93	220	0.547	19.1	1.52	0.11	1	5
7/3/2004	17:45	27.25	6.95	221	0.55	19.2	1.52	0.11	1	5
7/3/2004	18:00	27.26	6.95	222	0.549	18.4	1.46	0.11	1	5
7/3/2004	18:15	27.26	6.95	225	0.548	17.5	1.39	0.11	1	5
7/3/2004	18:30	27.28	6.95	226	0.551	17.5	1.39	0.11	1	5
7/3/2004	18:45	27.28	6.95	229	0.549	17.7	1.4	0.11	1	5
7/3/2004	19:00	27.22	6.94	230	0.548	16	1.27	0.11	1	5
7/3/2004	19:15	27.25	6.95	230	0.548	16.4	1.3	0.11	1	5
7/3/2004	19:30	27.26	6.95	230	0.549	19.7	1.56	0.11	1	5
7/3/2004	19:45	27.15	6.95	234	0.544	16.7	1.32	0.11	1	5
7/3/2004	20:00	27.24	6.96	231	0.545	19	1.51	0.11	1	5

7/3/2004	20:15	27.09	6.95	234	0.54	16.4	1.3	0.11	1	5
7/3/2004	20:30	27.01	6.94	235	0.538	15.1	1.2	0.11	1	5
7/3/2004	20:45	26.97	6.93	234	0.537	15.1	1.21	0.11	1	5
7/3/2004	21:00	26.93	6.92	234	0.532	14.5	1.15	0.11	1	5
7/3/2004	21:15	26.94	6.93	233	0.533	15.1	1.21	0.11	1	5
7/3/2004	21:30	26.91	6.93	231	0.527	14.8	1.18	0.11	1	5
7/3/2004	21:45	26.92	6.92	228	0.526	15.6	1.24	0.11	1	5
7/3/2004	22:00	26.88	6.91	227	0.523	15.1	1.2	0.11	1	5
7/3/2004	22:15	26.87	6.91	224	0.521	15.3	1.22	0.11	1	5
7/3/2004	22:30	26.88	6.91	223	0.521	15.2	1.22	0.11	1	5
7/3/2004	22:45	26.84	6.91	224	0.518	14.5	1.16	0.11	1	5
7/3/2004	23:00	26.82	6.9	223	0.52	13.3	1.06	0.11	1	5
7/3/2004	23:15	26.81	6.9	224	0.514	12.9	1.03	0.11	1	5
7/3/2004	23:30	26.83	6.9	224	0.512	14.1	1.13	0.11	1	5
7/3/2004	23:45	26.81	6.9	223	0.511	13	1.04	0.11	1	5
7/4/2004	0:00	26.8	6.9	223	0.509	12.3	0.98	0.11	1	5
7/4/2004	0:15	26.81	6.9	225	0.508	12.3	0.98	0.11	1	5
7/4/2004	0:30	26.8	6.9	225	0.504	12.2	0.97	0.11	1	5
7/4/2004	0:45	26.81	6.9	226	0.504	12.3	0.99	0.11	1	5
7/4/2004	1:00	26.78	6.9	227	0.501	12.2	0.97	0.11	1	5
7/4/2004	1:15	26.77	6.9	229	0.5	12.2	0.97	0.11	1	5
7/4/2004	1:30	26.76	6.9	227	0.501	12.6	1.01	0.11	1	5
7/4/2004	1:45	26.76	6.9	225	0.496	12.9	1.03	0.11	1	5
7/4/2004	2:00	26.75	6.9	226	0.494	13.1	1.05	0.11	1	5
7/4/2004	2:15	26.73	6.9	226	0.493	13	1.04	0.11	1	5
7/4/2004	2:30	26.73	6.9	226	0.491	13.5	1.08	0.11	1	5
7/4/2004	2:45	26.73	6.9	227	0.49	13.8	1.1	0.11	1	5
7/4/2004	3:00	26.68	6.9	229	0.489	13.8	1.1	0.11	1	5
7/4/2004	3:15	26.67	6.9	229	0.488	14.6	1.17	0.11	1	5
7/4/2004	3:30	26.66	6.9	229	0.486	15.1	1.21	0.11	1	5
7/4/2004	3:45	26.65	6.91	228	0.483	15.3	1.23	0.11	1	5
7/4/2004	4:00	26.61	6.91	229	0.482	15.1	1.21	0.11	1	5
7/4/2004	4:15	26.59	6.91	228	0.48	15.8	1.27	0.11	1	5

7/4/2004	4:30	26.56	6.91	231	0.478	15.5	1.24	0.11	1	5
7/4/2004	4:45	26.54	6.91	230	0.477	15.4	1.24	0.11	1	5
7/4/2004	5:00	26.5	6.91	233	0.477	15.4	1.24	0.11	1	5
7/4/2004	5:15	26.47	6.92	229	0.474	15.1	1.21	0.11	1	5
7/4/2004	5:30	26.44	6.91	231	0.473	15.1	1.21	0.11	1	5
7/4/2004	5:45	26.44	6.91	232	0.471	15.7	1.26	0.11	1	5
7/4/2004	6:00	26.4	6.91	231	0.47	14.9	1.2	0.11	1	5
7/4/2004	6:15	26.39	6.92	230	0.468	15.3	1.23	0.11	1	5
7/4/2004	6:30	26.35	6.92	232	0.466	14.7	1.18	0.11	1	5
7/4/2004	6:45	26.33	6.92	233	0.465	14.5	1.17	0.11	1	5
7/4/2004	7:00	26.31	6.92	231	0.463	15	1.21	0.11	1	5
7/4/2004	7:15	26.3	6.92	233	0.461	14.7	1.18	0.11	1	5
7/4/2004	7:30	26.28	6.92	234	0.46	14.5	1.17	0.11	1	5
7/4/2004	7:45	26.24	6.92	235	0.458	13.5	1.09	0.11	1	5
7/4/2004	8:00	26.25	6.92	234	0.457	14.1	1.14	0.11	1	5
7/4/2004	8:15	26.22	6.92	235	0.455	13	1.05	0.11	1	5
7/4/2004	8:30	26.24	6.93	235	0.454	13.2	1.07	0.11	1	5
7/4/2004	8:45	26.23	6.92	236	0.452	13	1.05	0.11	1	5
7/4/2004	9:00	26.24	6.93	236	0.451	13.3	1.07	0.11	1	5
7/4/2004	9:15	26.24	6.93	237	0.449	13.2	1.07	0.12	1	5
7/4/2004	9:30	26.23	6.93	239	0.448	12.3	0.99	0.12	1	5
7/4/2004	9:45	26.3	6.93	238	0.446	12.9	1.04	0.12	1	5
7/4/2004	10:00	26.26	6.93	241	0.443	12.4	1	0.12	1	5
7/4/2004	10:15	26.37	6.94	240	0.441	12.4	1	0.12	1	5
7/4/2004	10:30	26.38	6.94	242	0.44	12.4	1	0.12	1	5
7/4/2004	10:45	26.35	6.94	244	0.437	11.5	0.93	0.12	1	5
7/4/2004	11:00	26.69	6.94	243	0.436	13	1.04	0.12	1	5
7/4/2004	11:15	26.91	6.95	243	0.435	12.8	1.02	0.12	1	5
7/4/2004	11:30	26.77	6.96	245	0.433	12.8	1.02	0.12	1	5
7/4/2004	11:45	26.99	6.96	244	0.432	12.6	1	0.12	1	5
7/4/2004	12:00	26.9	6.95	246	0.429	12.4	0.99	0.12	1	5
7/4/2004	12:15	27.05	6.95	246	0.431	13.8	1.1	0.12	1	5
7/4/2004	12:30	27.2	6.96	247	0.427	14.5	1.15	0.12	1	5

7/4/2004	12:45	27.53	6.97	246	0.425	16.1	1.27	0.12	1	5
7/4/2004	13:00	27.57	6.96	249	0.423	15.9	1.25	0.12	1	5
7/4/2004	13:15	27.2	6.94	251	0.421	14.6	1.16	0.12	1	5
7/4/2004	13:30	27.27	6.95	248	0.419	12.8	1.01	0.12	1	5
7/4/2004	13:45	27.46	6.95	246	0.418	14.7	1.16	0.12	1	5
7/4/2004	14:00	27.4	6.95	252	0.415	13.6	1.07	0.12	1	5
7/4/2004	14:15	27.2	6.95	251	0.414	11.7	0.92	0.12	1	5
7/4/2004	14:30	27.65	6.95	252	0.414	15	1.18	0.12	1	5
7/4/2004	14:45	27.68	6.95	246	0.411	15.6	1.23	0.12	1	5
7/4/2004	15:00	27.46	6.94	249	0.409	12.2	0.96	0.12	1	5
7/4/2004	15:15	27.33	6.94	251	0.409	12.2	0.97	0.12	1	5
7/4/2004	15:30	27.47	6.94	249	0.409	13	1.03	0.12	1	5
7/4/2004	15:45	27.51	6.94	249	0.407	13.7	1.08	0.12	1	5
7/4/2004	16:00	27.31	6.94	250	0.405	10.5	0.83	0.12	1	5
7/4/2004	16:15	27.18	6.93	250	0.404	10.4	0.82	0.12	1	5
7/4/2004	16:30	27.51	6.94	250	0.405	12.5	0.99	0.12	1	5
7/4/2004	16:45	27.4	6.94	246	0.403	12.3	0.97	0.12	1	5
7/4/2004	17:00	27.32	6.93	248	0.402	10.9	0.86	0.12	1	5
7/4/2004	17:15	27.54	6.93	248	0.403	12.9	1.02	0.12	1	5
7/4/2004	17:30	27.75	6.95	247	0.402	14.6	1.15	0.12	1	5
7/4/2004	17:45	27.77	6.94	246	0.403	14.4	1.13	0.12	1	5
7/4/2004	18:00	27.85	6.94	240	0.403	15.1	1.19	0.12	1	5
7/4/2004	18:15	27.74	6.94	245	0.404	13.9	1.09	0.12	1	5
7/4/2004	18:30	27.84	6.95	242	0.405	14.5	1.14	0.12	1	5
7/4/2004	18:45	27.9	6.94	246	0.407	12.8	1	0.12	1	5
7/4/2004	19:00	27.92	6.94	247	0.407	15.5	1.21	0.12	1	5
7/4/2004	19:15	27.96	6.95	248	0.407	15.1	1.18	0.12	1	5
7/4/2004	19:30	28.03	6.94	249	0.407	14.1	1.1	0.12	1	5
7/4/2004	19:45	28.08	6.94	231	0.407	17.8	1.39	0.11	1	5
7/4/2004	20:00	28.08	6.94	237	0.407	16.8	1.31	0.12	1	5
7/4/2004	20:15	28.03	6.94	239	0.409	16.5	1.29	0.12	1	5
7/4/2004	20:30	27.98	6.93	249	0.41	13.6	1.06	0.12	1	5
7/4/2004	20:45	28.09	6.94	249	0.41	14.8	1.15	0.12	1	5

7/4/2004	21:00	28.07	6.94	245	0.411	14.5	1.13	0.12	1	5
7/4/2004	21:15	28.16	6.94	250	0.41	13.7	1.07	0.12	1	5
7/4/2004	21:30	28.04	6.94	250	0.411	14.4	1.13	0.12	1	5
7/4/2004	21:45	28.07	6.94	235	0.411	15.5	1.21	0.11	1	5
7/4/2004	22:00	28.18	6.95	238	0.411	17	1.32	0.12	1	5
7/4/2004	22:15	28.19	6.95	250	0.413	15.8	1.23	0.12	1	5
7/4/2004	22:30	28.12	6.94	241	0.412	16.7	1.3	0.12	1	5
7/4/2004	22:45	28.14	6.94	246	0.413	17.3	1.35	0.12	1	5
7/4/2004	23:00	27.95	6.93	252	0.412	15.5	1.21	0.12	1	5
7/4/2004	23:15	28.05	6.95	251	0.409	17.6	1.37	0.12	1	5
7/4/2004	23:30	27.79	6.93	252	0.409	12.7	1	0.12	1	5
7/4/2004	23:45	28.09	6.95	250	0.41	17.9	1.4	0.12	1	5
7/5/2004	0:00	28.08	6.95	252	0.409	16.4	1.28	0.12	1	5
7/5/2004	0:15	27.92	6.94	251	0.409	16.3	1.28	0.12	1	5
7/5/2004	0:30	27.98	6.95	254	0.409	16.3	1.28	0.12	1	5
7/5/2004	0:45	28	6.95	251	0.408	16	1.25	0.12	1	5
7/5/2004	1:00	28.04	6.96	248	0.41	18.5	1.45	0.12	1	5
7/5/2004	1:15	28.07	6.96	247	0.408	20	1.56	0.12	1	5
7/5/2004	1:30	28.05	6.97	249	0.408	18.4	1.44	0.12	1	5
7/5/2004	1:45	28.01	6.95	250	0.408	17.3	1.35	0.12	1	5
7/5/2004	2:00	28	6.96	245	0.407	18.8	1.47	0.12	1	5
7/5/2004	2:15	27.96	6.96	247	0.408	18.5	1.45	0.12	1	5
7/5/2004	2:30	27.95	6.96	248	0.406	18.3	1.44	0.12	1	5
7/5/2004	2:45	27.88	6.95	249	0.405	16.1	1.26	0.12	1	5
7/5/2004	3:00	27.94	6.96	248	0.405	19.3	1.51	0.12	1	5
7/5/2004	3:15	27.92	6.96	249	0.405	20.5	1.6	0.12	1	5
7/5/2004	3:30	27.92	6.97	249	0.404	18.7	1.46	0.12	1	5
7/5/2004	3:45	27.85	6.95	250	0.404	16	1.25	0.12	1	5
7/5/2004	4:00	27.83	6.95	249	0.403	17.4	1.37	0.12	1	5
7/5/2004	4:15	27.91	6.96	247	0.402	18.9	1.48	0.12	1	5
7/5/2004	4:30	27.79	6.96	249	0.402	16.3	1.28	0.12	1	5
7/5/2004	4:45	27.83	6.96	248	0.402	15.4	1.21	0.12	1	5
7/5/2004	5:00	27.83	6.97	246	0.4	18.2	1.43	0.12	1	5

7/5/2004	5:15	27.74	6.95	248	0.402	15	1.18	0.12	1	5
7/5/2004	5:30	27.76	6.96	248	0.4	14.4	1.13	0.12	1	5
7/5/2004	5:45	27.8	6.96	247	0.399	18.4	1.45	0.12	1	5
7/5/2004	6:00	27.78	6.96	247	0.398	18.6	1.46	0.12	1	5
7/5/2004	6:15	27.77	6.97	248	0.399	18	1.41	0.12	1	5
7/5/2004	6:30	27.77	6.96	247	0.399	16.8	1.32	0.12	1	5
7/5/2004	6:45	27.79	6.97	247	0.4	18.8	1.47	0.12	1	5
7/5/2004	7:00	27.78	6.97	246	0.398	18.9	1.48	0.12	1	5
7/5/2004	7:15	27.77	6.97	246	0.398	17.2	1.35	0.12	1	5
7/5/2004	7:30	27.79	6.97	247	0.398	18.3	1.43	0.12	1	5
7/5/2004	7:45	27.77	6.96	246	0.397	17.4	1.37	0.12	1	5
7/5/2004	8:00	27.79	6.97	246	0.397	17.9	1.41	0.12	1	5
7/5/2004	8:15	27.77	6.96	245	0.396	17.4	1.37	0.12	1	5
7/5/2004	8:30	27.77	6.96	243	0.395	16.5	1.29	0.12	1	5
7/5/2004	8:45	27.8	6.96	245	0.395	16.8	1.32	0.12	1	5
7/5/2004	9:00	27.74	6.96	246	0.394	13.9	1.09	0.12	1	5
7/5/2004	9:15	27.72	6.96	246	0.394	12.9	1.01	0.12	1	5
7/5/2004	9:30	27.84	6.96	246	0.393	16.8	1.32	0.12	1	5
7/5/2004	9:45	27.87	6.97	247	0.393	16.9	1.32	0.12	1	5
7/5/2004	10:00	27.86	6.97	245	0.391	16.8	1.32	0.12	1	5
7/5/2004	10:15	27.84	6.96	247	0.39	17.1	1.34	0.12	1	5
7/5/2004	10:30	27.92	6.97	246	0.39	16.2	1.27	0.12	1	5
7/5/2004	10:45	27.93	6.97	248	0.391	16.4	1.28	0.12	1	5
7/5/2004	11:00	27.94	6.97	247	0.39	16.6	1.3	0.12	1	5
7/5/2004	11:15	28.06	6.98	247	0.387	17.7	1.38	0.12	1	5
7/5/2004	11:30	28.16	6.98	246	0.392	17.1	1.34	0.12	1	5
7/5/2004	11:45	27.79	6.94	237	0.39	30.2	2.37	0.12	1	5
7/5/2004	12:00	27.89	6.96	223	0.389	41.4	3.25	0.11	1	5
7/5/2004	12:15	27.92	6.96	221	0.389	42.7	3.34	0.11	1	5
7/5/2004	12:30	28.12	6.96	222	0.391	46.1	3.6	0.11	1	5
7/5/2004	12:45	28.32	6.97	227	0.39	47.3	3.68	0.11	1	5
7/5/2004	13:00	28.48	7	234	0.39	49.1	3.81	0.11	1	5
7/5/2004	13:15	28.73	7.02	247	0.389	50.4	3.89	0.12	1	5

7/5/2004	13:30	28.86	7.04	253	0.39	50.4	3.88	0.12	1	5
7/5/2004	13:45	29.05	7.06	262	0.389	51.5	3.96	0.13	1	5
7/5/2004	14:00	29.21	7.08	269	0.388	51.3	3.93	0.13	1	5
7/5/2004	14:15	29.37	7.1	281	0.389	52.9	4.04	0.14	1	5
7/5/2004	14:30	29.39	7.1	287	0.388	53.2	4.06	0.14	1	5
7/5/2004	14:45	29.46	7.12	294	0.388	52.9	4.03	0.14	1	5
7/5/2004	15:00	29.44	7.12	294	0.389	51.9	3.96	0.14	1	5
7/5/2004	15:15	29.44	7.11	296	0.387	51.3	3.91	0.14	1	5
7/5/2004	15:30	29.44	7.11	297	0.386	49.5	3.77	0.14	1	5
7/5/2004	15:45	29.4	7.1	297	0.386	47.6	3.63	0.14	1	5
7/5/2004	16:00	29.37	7.09	297	0.385	45.1	3.45	0.14	1	5
7/5/2004	16:15	29.34	7.09	297	0.385	42.4	3.23	0.14	1	5
7/5/2004	16:30	29.38	7.09	296	0.385	42.7	3.26	0.14	1	5
7/5/2004	16:45	29.36	7.09	296	0.383	43.2	3.3	0.14	1	5
7/5/2004	17:00	29.36	7.09	295	0.383	42.8	3.27	0.14	1	5
7/5/2004	17:15	29.38	7.09	295	0.384	43.2	3.3	0.14	1	5
7/5/2004	17:30	29.45	7.09	295	0.384	42.3	3.24	0.14	1	5
7/5/2004	17:45	29.44	7.09	295	0.385	40.8	3.11	0.14	1	5
7/5/2004	18:00	29.44	7.07	287	0.384	39	2.97	0.14	1	5
7/5/2004	18:15	29.46	7.06	283	0.383	37.3	2.84	0.14	1	5
7/5/2004	18:30	29.42	7.05	277	0.385	34.8	2.66	0.13	1	5
7/5/2004	18:45	29.41	7.04	276	0.385	32.9	2.51	0.13	1	5
7/5/2004	19:00	29.46	7.05	277	0.384	33.7	2.57	0.13	1	5
7/5/2004	19:15	29.48	7.04	278	0.385	33.6	2.56	0.13	1	5
7/5/2004	19:30	29.45	7.05	281	0.387	33.1	2.52	0.14	1	5
7/5/2004	19:45	29.42	7.04	282	0.389	32.9	2.51	0.14	1	5
7/5/2004	20:00	29.42	7.05	283	0.389	32.6	2.49	0.14	1	5
7/5/2004	20:15	29.48	7.05	281	0.388	33.9	2.58	0.14	1	5
7/5/2004	20:30	29.58	7.06	271	0.386	38	2.89	0.13	1	5
7/5/2004	20:45	29.54	7.06	275	0.391	35.2	2.68	0.13	1	5
7/5/2004	21:00	29.58	7.09	261	0.387	40.6	3.09	0.13	1	5
7/5/2004	21:15	29.55	7.06	263	0.389	37.1	2.82	0.13	1	5
7/5/2004	21:30	29.5	7.05	263	0.39	31.7	2.41	0.13	1	5

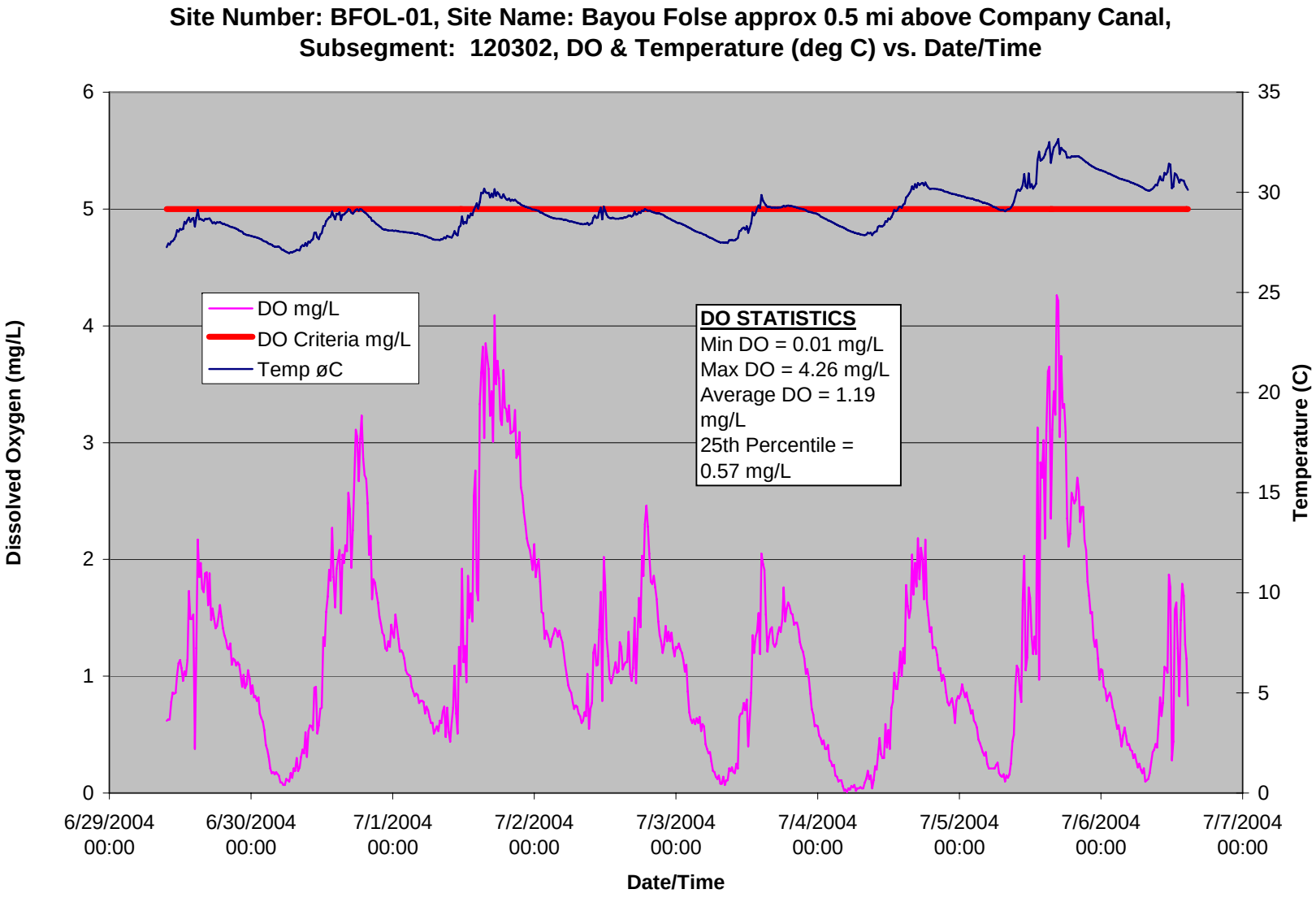
7/5/2004	21:45	29.48	7.07	264	0.39	34.6	2.64	0.13	1	5
7/5/2004	22:00	29.47	7.09	258	0.392	45.6	3.47	0.13	1	5
7/5/2004	22:15	29.51	7.09	257	0.395	47.3	3.61	0.12	1	5
7/5/2004	22:30	29.5	7.06	267	0.396	38.2	2.91	0.13	1	5
7/5/2004	22:45	29.46	7.06	267	0.395	36.2	2.76	0.13	1	5
7/5/2004	23:00	29.42	7.05	265	0.394	37.6	2.87	0.13	1	5
7/5/2004	23:15	29.35	7.07	260	0.396	41.5	3.17	0.13	1	5
7/5/2004	23:30	29.25	7.07	257	0.396	42.6	3.26	0.12	1	5
7/5/2004	23:45	29.2	7.06	261	0.395	35.5	2.72	0.13	1	5
7/6/2004	0:00	29.21	7.06	261	0.396	36.3	2.78	0.13	1	5
7/6/2004	0:15	29.18	7.06	261	0.396	34.7	2.66	0.13	1	5
7/6/2004	0:30	29.15	7.06	260	0.397	36	2.76	0.13	1	5
7/6/2004	0:45	29.12	7.06	260	0.396	35.6	2.73	0.13	1	5
7/6/2004	1:00	29.08	7.06	259	0.397	35.8	2.74	0.13	1	5
7/6/2004	1:15	29.05	7.05	260	0.398	34.5	2.65	0.13	1	5
7/6/2004	1:30	29.02	7.05	260	0.398	33	2.53	0.13	1	5
7/6/2004	1:45	29	7.05	260	0.398	33.1	2.55	0.13	1	5
7/6/2004	2:00	28.96	7.05	261	0.398	32.5	2.5	0.13	1	5
7/6/2004	2:15	28.96	7.05	261	0.397	32.6	2.51	0.13	1	5
7/6/2004	2:30	28.95	7.05	261	0.396	32.5	2.5	0.13	1	5
7/6/2004	2:45	28.94	7.05	261	0.397	32.3	2.48	0.13	1	5
7/6/2004	3:00	28.95	7.05	261	0.396	31.6	2.43	0.13	1	5
7/6/2004	3:15	28.95	7.05	261	0.396	32.4	2.49	0.13	1	5
7/6/2004	3:30	28.94	7.05	261	0.396	31.9	2.45	0.13	1	5
7/6/2004	3:45	28.94	7.06	262	0.397	33.5	2.58	0.13	1	5
7/6/2004	4:00	28.93	7.06	262	0.397	32.3	2.48	0.13	1	5
7/6/2004	4:15	28.91	7.06	262	0.397	35.4	2.73	0.13	1	5
7/6/2004	4:30	28.88	7.06	263	0.396	33.8	2.6	0.13	1	5
7/6/2004	4:45	28.86	7.06	263	0.396	35	2.7	0.13	1	5
7/6/2004	5:00	28.84	7.06	263	0.395	34.6	2.66	0.13	1	5
7/6/2004	5:15	28.83	7.06	265	0.396	34.3	2.65	0.13	1	5
7/6/2004	5:30	28.84	7.07	264	0.395	35.1	2.7	0.13	1	5
7/6/2004	5:45	28.82	7.05	267	0.395	31.7	2.44	0.13	1	5

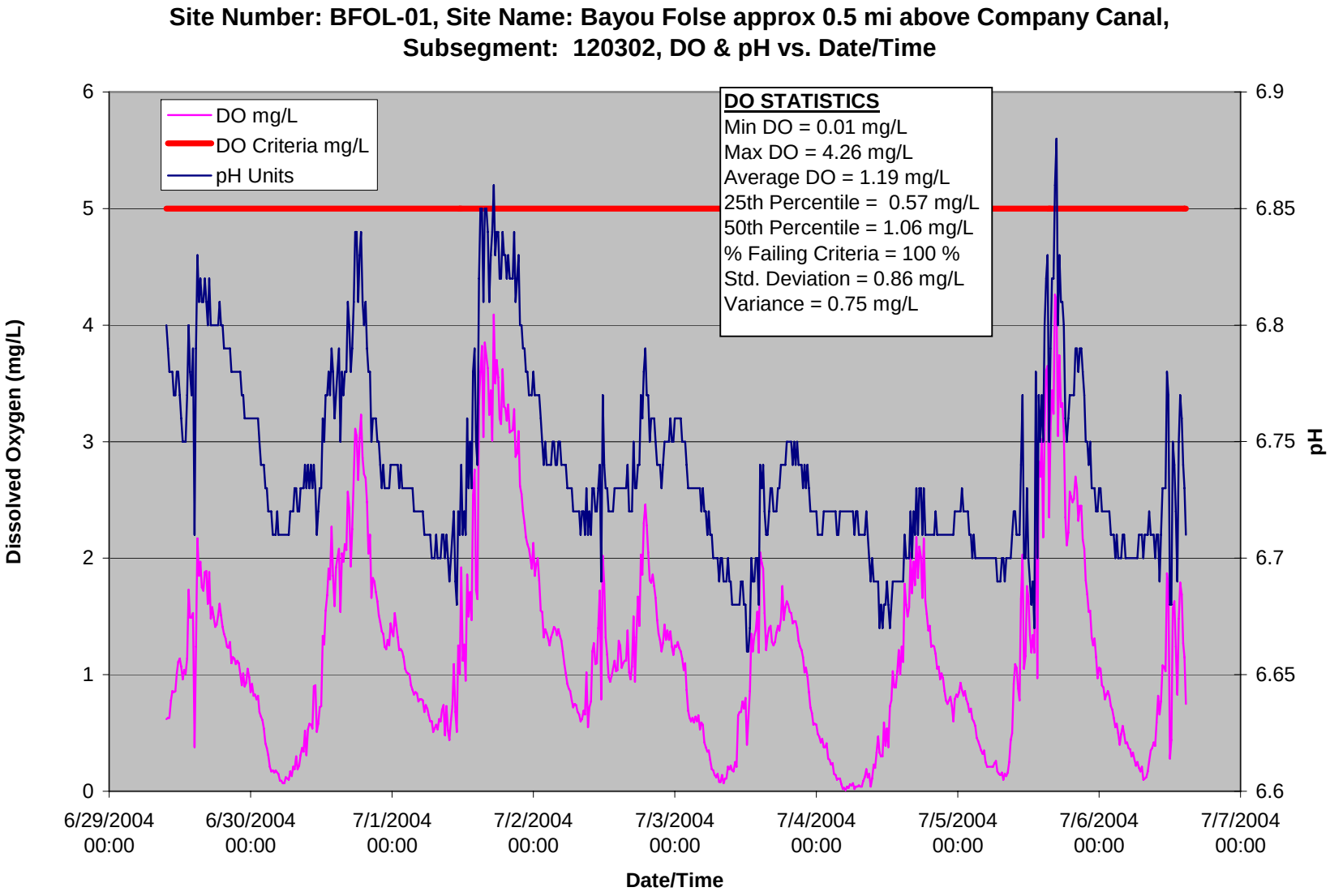
7/6/2004	6:00	28.79	7.05	267	0.396	31	2.39	0.13	1	5
7/6/2004	6:15	28.79	7.05	267	0.393	32.4	2.5	0.13	1	5
7/6/2004	6:30	28.79	7.06	266	0.392	33.1	2.55	0.13	1	5
7/6/2004	6:45	28.76	7.06	266	0.391	33.1	2.55	0.13	1	5
7/6/2004	7:00	28.75	7.05	267	0.39	31.9	2.46	0.13	1	5
7/6/2004	7:15	28.74	7.05	267	0.39	32.7	2.53	0.13	1	5
7/6/2004	7:30	28.72	7.05	267	0.39	30.3	2.34	0.13	1	5
7/6/2004	7:45	28.75	7.05	267	0.388	31.5	2.43	0.13	1	5
7/6/2004	8:00	28.72	7.05	267	0.389	28.6	2.21	0.13	1	5
7/6/2004	8:15	28.71	7.04	267	0.387	28.3	2.19	0.13	1	5
7/6/2004	8:30	28.76	7.05	267	0.387	29.3	2.26	0.13	1	5
7/6/2004	8:45	28.77	7.05	267	0.387	28.3	2.18	0.13	1	5
7/6/2004	9:00	28.77	7.05	268	0.387	28	2.16	0.13	1	5
7/6/2004	9:15	28.84	7.06	268	0.386	30.3	2.34	0.13	1	5
7/6/2004	9:30	28.87	7.05	268	0.39	29.5	2.3	0.13	1	5
7/6/2004	9:45	28.83	7.04	268	0.388	28.7	2.21	0.13	1	5
7/6/2004	10:00	28.81	7.04	268	0.386	26.1	2.01	0.13	1	5
7/6/2004	10:15	28.84	7.03	269	0.385	26.7	2.06	0.13	1	5
7/6/2004	10:30	28.9	7.05	269	0.385	28.7	2.21	0.13	1	5

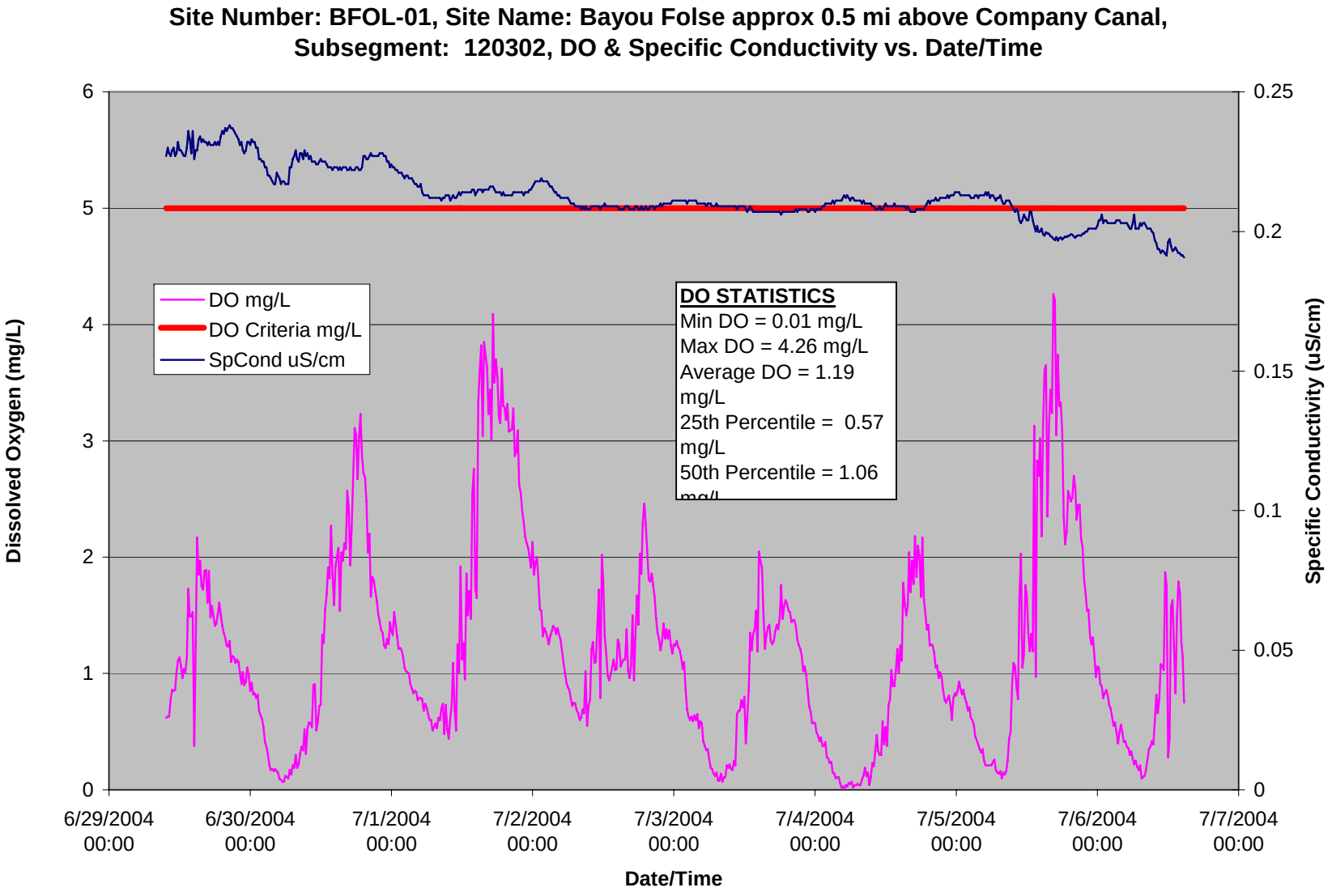
Site Number: BCUT-03 Site Name: Bayou Cutoff at Supercharge Lane Bridge
Subsegment #: 120302 Date: 6/29/2004

	Temp deg	pH	SpCond uS/cm	Depth	DO %	DO mg/L
Minimum	25.45	6.84	130.50	0.38	8.10	0.64
Maximum	29.58	7.12	297.00	0.73	60.60	4.81
Average	27.11	6.94	208.58	0.48	24.53	1.95
25th Percentile	26.42	6.91	173.20	0.41	15.30	1.22
30th Percentile	26.51	6.92	179.62	0.42	16.12	1.28
40th Percentile	26.74	6.93	189.86	0.45	18.26	1.45
50th Percentile	26.90	6.93	215.00	0.47	23.00	1.85
Standard Deviation	1.00	0.06	41.42	0.09	10.66	0.83
Variance	1.00	0.00	1715.95	0.01	113.53	0.69

Data Row Count	675
Total Values Failing DO Criteria	675
Percent failing DO Criteria	100.00 %


Site Number: BFOL-01, Site Name: Bayou Folse approx 0.5 mi above Company Canal, Subsegment: 120302, DO & Temperature (deg C) vs. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
DO mg/L
DO Criteria mg/L
Temp øC
DO STATISTICS
Min DO = 0.01 mg/L
Max DO = 4.26 mg/L
Average DO = 1.19 mg/L
25th Percentile = 0.57 mg/L
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BFOL-01, Site Name: Bayou Folse approx 0.5 mi above Company Canal, Subsegment: 120302, DO & pH vs. Date/Time
DO mg/L
DO Criteria mg/L
pH Units
DO STATISTICS
Min DO = 0.01 mg/L
Max DO = 4.26 mg/L
Average DO = 1.19 mg/L
25th Percentile = 0.57 mg/L
50th Percentile = 1.06 mg/L
% Failing Criteria = 100 %
Std. Deviation = 0.86 mg/L
Variance = 0.75 mg/L
Dissolved Oxygen (mg/L)
pH
Date/Time
0
1
2
3
4
5
6
6.6
6.65
6.7
6.75
6.8
6.85
6.9
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BFOL-01, Site Name: Bayou Folse approx 0.5 mi above Company Canal, Subsegment: 120302, DO & Specific Conductivity vs. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (uS/cm)
Date/Time
DO mg/L
DO Criteria mg/L
SpCond uS/cm
DO STATISTICS
Min DO = 0.01 mg/L
Max DO = 4.26 mg/L
Average DO = 1.19 mg/L
25th Percentile = 0.57 mg/L
50th Percentile = 1.06 mg/L
0
1
2
3
4
5
6
0
0.05
0.1
0.15
0.2
0.25
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00

Bayou Cutoff Site BFOL-01 Continuous Monitoring Data

Date_	Time	Date+Time	Temp	pH	SpCond	DO PERCENT			DO	SALINITY		Is DO < Criteria	DO Criteria
MMDDYY	HHMM	MMDDYYYY HHMM	øC	Units	uS/cm	Sat	mg/L	ppt	5	mg/L			
6/29/2004	9:44	6/29/2004 09:44	27.26	6.8	0.227	7.8	0.62	0.11	1	5			
6/29/2004	9:59	6/29/2004 09:59	27.44	6.79	0.23	8	0.63	0.11	1	5			
6/29/2004	10:14	6/29/2004 10:14	27.38	6.78	0.228	8	0.63	0.11	1	5			
6/29/2004	10:29	6/29/2004 10:29	27.54	6.78	0.227	9.9	0.78	0.11	1	5			
6/29/2004	10:44	6/29/2004 10:44	27.57	6.78	0.229	10.9	0.86	0.11	1	5			
6/29/2004	10:59	6/29/2004 10:59	27.65	6.77	0.23	10.8	0.85	0.11	1	5			
6/29/2004	11:14	6/29/2004 11:14	27.81	6.77	0.227	11	0.86	0.11	1	5			
6/29/2004	11:29	6/29/2004 11:29	28.11	6.78	0.228	12.9	1.01	0.11	1	5			
6/29/2004	11:44	6/29/2004 11:44	28.03	6.78	0.232	14.2	1.11	0.11	1	5			
6/29/2004	11:59	6/29/2004 11:59	28.17	6.77	0.229	14.6	1.14	0.11	1	5			
6/29/2004	12:14	6/29/2004 12:14	28.15	6.76	0.229	13.8	1.07	0.11	1	5			
6/29/2004	12:29	6/29/2004 12:29	28.17	6.75	0.228	12.4	0.96	0.11	1	5			
6/29/2004	12:44	6/29/2004 12:44	28.52	6.75	0.227	13.4	1.04	0.11	1	5			
6/29/2004	12:59	6/29/2004 12:59	28.44	6.75	0.227	13	1.01	0.11	1	5			
6/29/2004	13:14	6/29/2004 13:14	28.61	6.77	0.23	14.7	1.14	0.11	1	5			
6/29/2004	13:29	6/29/2004 13:29	28.74	6.8	0.236	22.4	1.73	0.11	1	5			
6/29/2004	13:44	6/29/2004 13:44	28.52	6.78	0.233	19.2	1.49	0.11	1	5			
6/29/2004	13:59	6/29/2004 13:59	28.67	6.77	0.228	19.3	1.49	0.11	1	5			
6/29/2004	14:14	6/29/2004 14:14	28.72	6.79	0.236	19.8	1.53	0.11	1	5			
6/29/2004	14:29	6/29/2004 14:29	28.29	6.71	0.226	4.9	0.38	0.11	1	5			
6/29/2004	14:44	6/29/2004 14:44	28.73	6.79	0.229	16.1	1.24	0.11	1	5			
6/29/2004	14:59	6/29/2004 14:59	29.13	6.83	0.229	28.3	2.17	0.11	1	5			
6/29/2004	15:14	6/29/2004 15:14	28.65	6.81	0.233	23.9	1.85	0.11	1	5			
6/29/2004	15:29	6/29/2004 15:29	28.66	6.82	0.234	25.4	1.97	0.11	1	5			
6/29/2004	15:44	6/29/2004 15:44	28.62	6.81	0.232	22.7	1.75	0.11	1	5			
6/29/2004	15:59	6/29/2004 15:59	28.59	6.81	0.233	22.2	1.72	0.11	1	5			
6/29/2004	16:14	6/29/2004 16:14	28.67	6.82	0.232	24.4	1.88	0.11	1	5			
6/29/2004	16:29	6/29/2004 16:29	28.66	6.81	0.232	24.4	1.89	0.11	1	5			
6/29/2004	16:44	6/29/2004 16:44	28.69	6.8	0.231	20.9	1.61	0.11	1	5			
6/29/2004	16:59	6/29/2004 16:59	28.7	6.82	0.232	24.4	1.88	0.11	1	5			

6/29/2004	17:14	6/29/2004	17:14	28.57	6.8	0.231	19.2	1.48	0.11	1	5
6/29/2004	17:29	6/29/2004	17:29	28.46	6.8	0.231	20.4	1.58	0.11	1	5
6/29/2004	17:44	6/29/2004	17:44	28.5	6.8	0.231	19.2	1.49	0.11	1	5
6/29/2004	17:59	6/29/2004	17:59	28.44	6.8	0.232	18.2	1.41	0.11	1	5
6/29/2004	18:14	6/29/2004	18:14	28.5	6.8	0.231	18.4	1.43	0.11	1	5
6/29/2004	18:29	6/29/2004	18:29	28.49	6.8	0.232	19.5	1.51	0.11	1	5
6/29/2004	18:44	6/29/2004	18:44	28.51	6.81	0.231	20.7	1.61	0.11	1	5
6/29/2004	18:59	6/29/2004	18:59	28.46	6.8	0.234	19.5	1.51	0.11	1	5
6/29/2004	19:14	6/29/2004	19:14	28.41	6.8	0.236	18.2	1.41	0.11	1	5
6/29/2004	19:29	6/29/2004	19:29	28.42	6.79	0.235	17.4	1.35	0.11	1	5
6/29/2004	19:44	6/29/2004	19:44	28.37	6.79	0.237	16.8	1.31	0.11	1	5
6/29/2004	19:59	6/29/2004	19:59	28.36	6.79	0.236	16	1.24	0.11	1	5
6/29/2004	20:14	6/29/2004	20:14	28.32	6.79	0.237	15.9	1.23	0.11	1	5
6/29/2004	20:29	6/29/2004	20:29	28.28	6.79	0.238	16.4	1.28	0.11	1	5
6/29/2004	20:44	6/29/2004	20:44	28.27	6.78	0.237	14.1	1.1	0.11	1	5
6/29/2004	20:59	6/29/2004	20:59	28.24	6.78	0.237	14.8	1.15	0.11	1	5
6/29/2004	21:14	6/29/2004	21:14	28.22	6.78	0.236	14.6	1.14	0.11	1	5
6/29/2004	21:29	6/29/2004	21:29	28.18	6.78	0.235	13.9	1.09	0.11	1	5
6/29/2004	21:44	6/29/2004	21:44	28.14	6.78	0.234	14.3	1.12	0.11	1	5
6/29/2004	21:59	6/29/2004	21:59	28.08	6.78	0.233	14.1	1.1	0.11	1	5
6/29/2004	22:14	6/29/2004	22:14	28.06	6.78	0.231	12.9	1.01	0.11	1	5
6/29/2004	22:29	6/29/2004	22:29	28.03	6.77	0.232	11.6	0.91	0.11	1	5
6/29/2004	22:44	6/29/2004	22:44	27.94	6.77	0.229	13	1.01	0.11	1	5
6/29/2004	22:59	6/29/2004	22:59	27.91	6.76	0.228	11.5	0.9	0.11	1	5
6/29/2004	23:14	6/29/2004	23:14	27.87	6.76	0.229	11.8	0.93	0.11	1	5
6/29/2004	23:29	6/29/2004	23:29	27.86	6.76	0.232	13.3	1.05	0.11	1	5
6/29/2004	23:44	6/29/2004	23:44	27.84	6.76	0.232	12.4	0.98	0.11	1	5
6/29/2004	23:59	6/29/2004	23:59	27.83	6.76	0.231	10.9	0.85	0.11	1	5
6/30/2004	0:14	6/30/2004	00:14	27.8	6.76	0.233	11.7	0.92	0.11	1	5
6/30/2004	0:29	6/30/2004	00:29	27.78	6.76	0.232	10.5	0.82	0.11	1	5
6/30/2004	0:44	6/30/2004	00:44	27.76	6.76	0.232	10.6	0.83	0.11	1	5
6/30/2004	0:59	6/30/2004	00:59	27.74	6.76	0.23	10.1	0.79	0.11	1	5
6/30/2004	1:14	6/30/2004	01:14	27.72	6.76	0.23	10.5	0.82	0.11	1	5

6/30/2004	1:29	6/30/2004 01:29	27.68	6.75	0.226	8.6	0.68	0.11	1	5
6/30/2004	1:44	6/30/2004 01:44	27.65	6.74	0.226	8.2	0.64	0.11	1	5
6/30/2004	1:59	6/30/2004 01:59	27.59	6.74	0.225	7.7	0.61	0.11	1	5
6/30/2004	2:14	6/30/2004 02:14	27.56	6.74	0.225	6.8	0.54	0.1	1	5
6/30/2004	2:29	6/30/2004 02:29	27.54	6.73	0.223	5.2	0.41	0.1	1	5
6/30/2004	2:44	6/30/2004 02:44	27.5	6.73	0.223	4.6	0.37	0.1	1	5
6/30/2004	2:59	6/30/2004 02:59	27.43	6.72	0.22	3.9	0.31	0.1	1	5
6/30/2004	3:14	6/30/2004 03:14	27.41	6.72	0.22	2.7	0.21	0.1	1	5
6/30/2004	3:29	6/30/2004 03:29	27.38	6.72	0.219	2.1	0.17	0.1	1	5
6/30/2004	3:44	6/30/2004 03:44	27.32	6.71	0.218	2.3	0.18	0.1	1	5
6/30/2004	3:59	6/30/2004 03:59	27.29	6.71	0.217	2	0.16	0.1	1	5
6/30/2004	4:14	6/30/2004 04:14	27.27	6.71	0.217	2.3	0.18	0.1	1	5
6/30/2004	4:29	6/30/2004 04:29	27.29	6.72	0.221	2	0.16	0.1	1	5
6/30/2004	4:44	6/30/2004 04:44	27.28	6.71	0.22	1.9	0.15	0.1	1	5
6/30/2004	4:59	6/30/2004 04:59	27.22	6.71	0.219	1.1	0.09	0.1	1	5
6/30/2004	5:14	6/30/2004 05:14	27.14	6.71	0.217	1.1	0.09	0.1	1	5
6/30/2004	5:29	6/30/2004 05:29	27.12	6.71	0.218	0.9	0.07	0.1	1	5
6/30/2004	5:44	6/30/2004 05:44	27.07	6.71	0.218	0.8	0.07	0.1	1	5
6/30/2004	5:59	6/30/2004 05:59	27.03	6.71	0.217	1.5	0.12	0.1	1	5
6/30/2004	6:14	6/30/2004 06:14	26.99	6.71	0.217	1.4	0.11	0.1	1	5
6/30/2004	6:29	6/30/2004 06:29	26.97	6.71	0.217	1.3	0.1	0.1	1	5
6/30/2004	6:44	6/30/2004 06:44	27.02	6.72	0.223	2.2	0.17	0.1	1	5
6/30/2004	6:59	6/30/2004 06:59	27	6.72	0.223	1.6	0.13	0.1	1	5
6/30/2004	7:14	6/30/2004 07:14	27.04	6.72	0.226	2.6	0.21	0.11	1	5
6/30/2004	7:29	6/30/2004 07:29	27.06	6.73	0.227	2.3	0.19	0.11	1	5
6/30/2004	7:44	6/30/2004 07:44	27.12	6.73	0.229	3.8	0.3	0.11	1	5
6/30/2004	7:59	6/30/2004 07:59	27.11	6.72	0.226	2.4	0.19	0.11	1	5
6/30/2004	8:14	6/30/2004 08:14	27.1	6.72	0.225	2.8	0.22	0.1	1	5
6/30/2004	8:29	6/30/2004 08:29	27.28	6.73	0.228	3.9	0.31	0.11	1	5
6/30/2004	8:44	6/30/2004 08:44	27.36	6.73	0.228	4.7	0.37	0.11	1	5
6/30/2004	8:59	6/30/2004 08:59	27.32	6.73	0.226	4.3	0.34	0.11	1	5
6/30/2004	9:14	6/30/2004 09:14	27.47	6.74	0.229	6.6	0.52	0.11	1	5
6/30/2004	9:29	6/30/2004 09:29	27.34	6.73	0.227	4	0.31	0.11	1	5

6/30/2004	9:44	6/30/2004 09:44	27.54	6.74	0.228	6.7	0.53	0.11	1	5
6/30/2004	9:59	6/30/2004 09:59	27.49	6.73	0.226	7.3	0.58	0.11	1	5
6/30/2004	10:14	6/30/2004 10:14	27.6	6.74	0.227	7.2	0.57	0.11	1	5
6/30/2004	10:29	6/30/2004 10:29	27.67	6.73	0.225	6.8	0.54	0.11	1	5
6/30/2004	10:44	6/30/2004 10:44	27.97	6.74	0.225	11.5	0.9	0.1	1	5
6/30/2004	10:59	6/30/2004 10:59	27.99	6.73	0.225	11.7	0.91	0.1	1	5
6/30/2004	11:14	6/30/2004 11:14	27.75	6.71	0.224	6.5	0.51	0.1	1	5
6/30/2004	11:29	6/30/2004 11:29	27.66	6.72	0.224	7.4	0.58	0.1	1	5
6/30/2004	11:44	6/30/2004 11:44	27.9	6.73	0.225	9.1	0.72	0.11	1	5
6/30/2004	11:59	6/30/2004 11:59	27.96	6.73	0.226	9.4	0.73	0.11	1	5
6/30/2004	12:14	6/30/2004 12:14	28.31	6.76	0.225	17.1	1.33	0.11	1	5
6/30/2004	12:29	6/30/2004 12:29	28.33	6.75	0.225	16.2	1.26	0.11	1	5
6/30/2004	12:44	6/30/2004 12:44	28.56	6.77	0.225	20.1	1.55	0.11	1	5
6/30/2004	12:59	6/30/2004 12:59	28.66	6.77	0.224	21.7	1.68	0.1	1	5
6/30/2004	13:14	6/30/2004 13:14	28.75	6.78	0.223	24.8	1.91	0.1	1	5
6/30/2004	13:29	6/30/2004 13:29	28.77	6.77	0.223	23.6	1.82	0.1	1	5
6/30/2004	13:44	6/30/2004 13:44	29.04	6.79	0.223	29.5	2.27	0.1	1	5
6/30/2004	13:59	6/30/2004 13:59	28.83	6.78	0.222	24	1.85	0.1	1	5
6/30/2004	14:14	6/30/2004 14:14	28.65	6.76	0.223	20.6	1.59	0.1	1	5
6/30/2004	14:29	6/30/2004 14:29	28.93	6.77	0.223	24.9	1.92	0.1	1	5
6/30/2004	14:44	6/30/2004 14:44	28.89	6.78	0.223	26	2	0.1	1	5
6/30/2004	14:59	6/30/2004 14:59	29	6.79	0.222	27.1	2.08	0.1	1	5
6/30/2004	15:14	6/30/2004 15:14	28.63	6.75	0.223	20	1.54	0.1	1	5
6/30/2004	15:29	6/30/2004 15:29	28.88	6.78	0.222	26.5	2.04	0.1	1	5
6/30/2004	15:44	6/30/2004 15:44	28.9	6.77	0.223	25.6	1.97	0.1	1	5
6/30/2004	15:59	6/30/2004 15:59	28.97	6.78	0.223	27.5	2.12	0.1	1	5
6/30/2004	16:14	6/30/2004 16:14	29.04	6.78	0.223	26.9	2.07	0.1	1	5
6/30/2004	16:29	6/30/2004 16:29	29.16	6.81	0.222	33.6	2.57	0.1	1	5
6/30/2004	16:44	6/30/2004 16:44	29.13	6.8	0.222	31.7	2.43	0.1	1	5
6/30/2004	16:59	6/30/2004 16:59	28.98	6.78	0.223	25.1	1.93	0.1	1	5
6/30/2004	17:14	6/30/2004 17:14	28.93	6.79	0.222	29.2	2.25	0.1	1	5
6/30/2004	17:29	6/30/2004 17:29	29.03	6.81	0.222	35.2	2.7	0.1	1	5
6/30/2004	17:44	6/30/2004 17:44	29.13	6.84	0.222	40.5	3.11	0.1	1	5

6/30/2004	17:59	6/30/2004 17:59	29.15	6.84	0.223	39.8	3.05	0.1	1	5
6/30/2004	18:14	6/30/2004 18:14	29.08	6.81	0.223	34.8	2.67	0.1	1	5
6/30/2004	18:29	6/30/2004 18:29	29.17	6.83	0.222	39.5	3.03	0.1	1	5
6/30/2004	18:44	6/30/2004 18:44	29.14	6.84	0.222	42.1	3.23	0.1	1	5
6/30/2004	18:59	6/30/2004 18:59	29.06	6.81	0.223	37.2	2.86	0.1	1	5
6/30/2004	19:14	6/30/2004 19:14	29.01	6.8	0.227	35.4	2.72	0.11	1	5
6/30/2004	19:29	6/30/2004 19:29	28.94	6.81	0.227	35	2.69	0.11	1	5
6/30/2004	19:44	6/30/2004 19:44	28.87	6.79	0.226	32.2	2.48	0.11	1	5
6/30/2004	19:59	6/30/2004 19:59	28.78	6.78	0.226	26.4	2.04	0.11	1	5
6/30/2004	20:14	6/30/2004 20:14	28.73	6.78	0.227	28.5	2.2	0.11	1	5
6/30/2004	20:29	6/30/2004 20:29	28.57	6.75	0.228	21.4	1.66	0.11	1	5
6/30/2004	20:44	6/30/2004 20:44	28.58	6.76	0.227	23.6	1.83	0.11	1	5
6/30/2004	20:59	6/30/2004 20:59	28.49	6.76	0.227	23.2	1.8	0.11	1	5
6/30/2004	21:14	6/30/2004 21:14	28.41	6.76	0.227	22	1.71	0.11	1	5
6/30/2004	21:29	6/30/2004 21:29	28.37	6.75	0.227	21	1.63	0.11	1	5
6/30/2004	21:44	6/30/2004 21:44	28.3	6.75	0.227	19.4	1.51	0.11	1	5
6/30/2004	21:59	6/30/2004 21:59	28.25	6.74	0.228	18.6	1.45	0.11	1	5
6/30/2004	22:14	6/30/2004 22:14	28.17	6.73	0.228	17.5	1.37	0.11	1	5
6/30/2004	22:29	6/30/2004 22:29	28.15	6.74	0.228	17.3	1.35	0.11	1	5
6/30/2004	22:44	6/30/2004 22:44	28.14	6.73	0.227	15.9	1.24	0.11	1	5
6/30/2004	22:59	6/30/2004 22:59	28.12	6.73	0.227	15.7	1.22	0.11	1	5
6/30/2004	23:14	6/30/2004 23:14	28.09	6.73	0.225	16.6	1.3	0.11	1	5
6/30/2004	23:29	6/30/2004 23:29	28.1	6.73	0.225	16	1.25	0.11	1	5
6/30/2004	23:44	6/30/2004 23:44	28.09	6.74	0.223	18.4	1.44	0.1	1	5
6/30/2004	23:59	6/30/2004 23:59	28.09	6.74	0.224	17.6	1.37	0.1	1	5
7/1/2004	0:14	7/1/2004 00:14	28.07	6.74	0.223	17.1	1.33	0.1	1	5
7/1/2004	0:29	7/1/2004 00:29	28.08	6.74	0.223	19.6	1.53	0.1	1	5
7/1/2004	0:44	7/1/2004 00:44	28.07	6.74	0.222	18.2	1.42	0.1	1	5
7/1/2004	0:59	7/1/2004 00:59	28.06	6.74	0.222	16.9	1.32	0.1	1	5
7/1/2004	1:14	7/1/2004 01:14	28.03	6.73	0.221	15.4	1.21	0.1	1	5
7/1/2004	1:29	7/1/2004 01:29	28.03	6.74	0.221	15.7	1.22	0.1	1	5
7/1/2004	1:44	7/1/2004 01:44	28.03	6.73	0.221	15.4	1.2	0.1	1	5
7/1/2004	1:59	7/1/2004 01:59	28.01	6.73	0.22	14.7	1.15	0.1	1	5

7/1/2004	2:14	7/1/2004 02:14	28.01	6.73	0.219	13.5	1.05	0.1	1	5
7/1/2004	2:29	7/1/2004 02:29	28	6.73	0.22	13	1.02	0.1	1	5
7/1/2004	2:44	7/1/2004 02:44	28	6.73	0.22	12.9	1.01	0.1	1	5
7/1/2004	2:59	7/1/2004 02:59	27.99	6.73	0.219	12.8	1	0.1	1	5
7/1/2004	3:14	7/1/2004 03:14	27.97	6.73	0.219	11.7	0.91	0.1	1	5
7/1/2004	3:29	7/1/2004 03:29	27.96	6.73	0.219	11.2	0.87	0.1	1	5
7/1/2004	3:44	7/1/2004 03:44	27.94	6.72	0.218	10.6	0.83	0.1	1	5
7/1/2004	3:59	7/1/2004 03:59	27.92	6.72	0.217	10.9	0.85	0.1	1	5
7/1/2004	4:14	7/1/2004 04:14	27.93	6.72	0.217	10.8	0.84	0.1	1	5
7/1/2004	4:29	7/1/2004 04:29	27.9	6.72	0.216	9.8	0.77	0.1	1	5
7/1/2004	4:44	7/1/2004 04:44	27.88	6.72	0.216	10	0.79	0.1	1	5
7/1/2004	4:59	7/1/2004 04:59	27.88	6.72	0.217	10.1	0.79	0.1	1	5
7/1/2004	5:14	7/1/2004 05:14	27.84	6.72	0.214	9.9	0.78	0.1	1	5
7/1/2004	5:29	7/1/2004 05:29	27.81	6.71	0.213	8.7	0.68	0.1	1	5
7/1/2004	5:44	7/1/2004 05:44	27.8	6.71	0.213	9.4	0.74	0.1	1	5
7/1/2004	5:59	7/1/2004 05:59	27.75	6.71	0.213	9	0.71	0.1	1	5
7/1/2004	6:14	7/1/2004 06:14	27.73	6.71	0.213	8.3	0.65	0.1	1	5
7/1/2004	6:29	7/1/2004 06:29	27.71	6.71	0.212	7.6	0.6	0.1	1	5
7/1/2004	6:44	7/1/2004 06:44	27.67	6.7	0.212	7.6	0.6	0.1	1	5
7/1/2004	6:59	7/1/2004 06:59	27.64	6.7	0.212	6.5	0.51	0.1	1	5
7/1/2004	7:14	7/1/2004 07:14	27.63	6.7	0.212	6.9	0.54	0.1	1	5
7/1/2004	7:29	7/1/2004 07:29	27.63	6.71	0.212	7.2	0.57	0.1	1	5
7/1/2004	7:44	7/1/2004 07:44	27.63	6.7	0.212	6.7	0.53	0.1	1	5
7/1/2004	7:59	7/1/2004 07:59	27.62	6.7	0.212	7.9	0.62	0.1	1	5
7/1/2004	8:14	7/1/2004 08:14	27.66	6.7	0.212	7.6	0.6	0.1	1	5
7/1/2004	8:29	7/1/2004 08:29	27.66	6.71	0.211	8.8	0.7	0.1	1	5
7/1/2004	8:44	7/1/2004 08:44	27.75	6.71	0.212	9.4	0.74	0.1	1	5
7/1/2004	8:59	7/1/2004 08:59	27.7	6.7	0.212	6.1	0.48	0.1	1	5
7/1/2004	9:14	7/1/2004 09:14	27.83	6.71	0.213	9.3	0.73	0.1	1	5
7/1/2004	9:29	7/1/2004 09:29	27.79	6.7	0.213	6.7	0.52	0.1	1	5
7/1/2004	9:44	7/1/2004 09:44	27.76	6.69	0.213	5.6	0.44	0.1	1	5
7/1/2004	9:59	7/1/2004 09:59	27.74	6.7	0.211	7.8	0.61	0.1	1	5
7/1/2004	10:14	7/1/2004 10:14	27.88	6.71	0.212	9.4	0.73	0.1	1	5

7/1/2004	10:29	7/1/2004	10:29	28.06	6.72	0.213	13.9	1.09	0.1	1	5
7/1/2004	10:44	7/1/2004	10:44	27.91	6.69	0.212	8.7	0.68	0.1	1	5
7/1/2004	10:59	7/1/2004	10:59	27.85	6.68	0.212	6.5	0.51	0.1	1	5
7/1/2004	11:14	7/1/2004	11:14	28.25	6.72	0.213	16	1.25	0.1	1	5
7/1/2004	11:29	7/1/2004	11:29	28.34	6.71	0.214	12.9	1.01	0.1	1	5
7/1/2004	11:44	7/1/2004	11:44	28.79	6.74	0.213	24.8	1.92	0.1	1	5
7/1/2004	11:59	7/1/2004	11:59	28.43	6.71	0.214	14.4	1.12	0.1	1	5
7/1/2004	12:14	7/1/2004	12:14	28.51	6.72	0.214	16.2	1.26	0.1	1	5
7/1/2004	12:29	7/1/2004	12:29	28.46	6.71	0.214	12.2	0.95	0.1	1	5
7/1/2004	12:44	7/1/2004	12:44	28.83	6.76	0.214	24.2	1.86	0.1	1	5
7/1/2004	12:59	7/1/2004	12:59	28.75	6.73	0.214	19.4	1.5	0.1	1	5
7/1/2004	13:14	7/1/2004	13:14	28.94	6.75	0.214	22.2	1.71	0.1	1	5
7/1/2004	13:29	7/1/2004	13:29	28.86	6.73	0.214	19.1	1.47	0.1	1	5
7/1/2004	13:44	7/1/2004	13:44	29.12	6.78	0.215	33.1	2.54	0.1	1	5
7/1/2004	13:59	7/1/2004	13:59	29.27	6.79	0.215	36.1	2.76	0.1	1	5
7/1/2004	14:14	7/1/2004	14:14	29.46	6.75	0.213	22.7	1.73	0.1	1	5
7/1/2004	14:29	7/1/2004	14:29	29.19	6.74	0.214	21.5	1.65	0.1	1	5
7/1/2004	14:44	7/1/2004	14:44	29.52	6.82	0.215	43.7	3.33	0.1	1	5
7/1/2004	14:59	7/1/2004	14:59	29.97	6.85	0.215	47.6	3.6	0.1	1	5
7/1/2004	15:14	7/1/2004	15:14	29.95	6.85	0.215	50.5	3.82	0.1	1	5
7/1/2004	15:29	7/1/2004	15:29	30.18	6.81	0.214	40.3	3.04	0.1	1	5
7/1/2004	15:44	7/1/2004	15:44	30	6.85	0.215	51	3.85	0.1	1	5
7/1/2004	15:59	7/1/2004	15:59	29.96	6.85	0.215	49.3	3.73	0.1	1	5
7/1/2004	16:14	7/1/2004	16:14	29.97	6.84	0.215	48	3.63	0.1	1	5
7/1/2004	16:29	7/1/2004	16:29	29.74	6.81	0.215	42.6	3.23	0.1	1	5
7/1/2004	16:44	7/1/2004	16:44	29.94	6.83	0.216	45.5	3.44	0.1	1	5
7/1/2004	16:59	7/1/2004	16:59	29.77	6.84	0.216	39.7	3.01	0.1	1	5
7/1/2004	17:14	7/1/2004	17:14	30.16	6.86	0.216	54.3	4.09	0.1	1	5
7/1/2004	17:29	7/1/2004	17:29	29.83	6.83	0.215	46.2	3.5	0.1	1	5
7/1/2004	17:44	7/1/2004	17:44	30	6.84	0.214	49	3.7	0.1	1	5
7/1/2004	17:59	7/1/2004	17:59	29.9	6.84	0.214	46.9	3.55	0.1	1	5
7/1/2004	18:14	7/1/2004	18:14	29.74	6.82	0.214	42.2	3.2	0.1	1	5
7/1/2004	18:29	7/1/2004	18:29	29.73	6.82	0.214	41.5	3.15	0.1	1	5

7/1/2004	18:44	7/1/2004	18:44	29.9	6.84	0.213	47.8	3.62	0.1	1	5
7/1/2004	18:59	7/1/2004	18:59	29.76	6.83	0.214	43.5	3.3	0.1	1	5
7/1/2004	19:14	7/1/2004	19:14	29.66	6.83	0.213	43.3	3.29	0.1	1	5
7/1/2004	19:29	7/1/2004	19:29	29.62	6.82	0.213	41.8	3.18	0.1	1	5
7/1/2004	19:44	7/1/2004	19:44	29.69	6.83	0.213	43.8	3.32	0.1	1	5
7/1/2004	19:59	7/1/2004	19:59	29.57	6.82	0.213	40.4	3.08	0.1	1	5
7/1/2004	20:14	7/1/2004	20:14	29.63	6.82	0.213	40.7	3.09	0.1	1	5
7/1/2004	20:29	7/1/2004	20:29	29.6	6.82	0.213	40.8	3.1	0.1	1	5
7/1/2004	20:44	7/1/2004	20:44	29.63	6.84	0.214	43.2	3.28	0.1	1	5
7/1/2004	20:59	7/1/2004	20:59	29.56	6.81	0.214	37.7	2.87	0.1	1	5
7/1/2004	21:14	7/1/2004	21:14	29.49	6.82	0.214	38	2.9	0.1	1	5
7/1/2004	21:29	7/1/2004	21:29	29.46	6.83	0.214	40.6	3.09	0.1	1	5
7/1/2004	21:44	7/1/2004	21:44	29.38	6.8	0.214	34.3	2.62	0.1	1	5
7/1/2004	21:59	7/1/2004	21:59	29.34	6.8	0.214	33.4	2.55	0.1	1	5
7/1/2004	22:14	7/1/2004	22:14	29.33	6.79	0.214	31.5	2.4	0.1	1	5
7/1/2004	22:29	7/1/2004	22:29	29.28	6.79	0.213	30.1	2.3	0.1	1	5
7/1/2004	22:44	7/1/2004	22:44	29.26	6.78	0.214	28.6	2.18	0.1	1	5
7/1/2004	22:59	7/1/2004	22:59	29.23	6.78	0.214	27.7	2.12	0.1	1	5
7/1/2004	23:14	7/1/2004	23:14	29.21	6.77	0.214	27.2	2.08	0.1	1	5
7/1/2004	23:29	7/1/2004	23:29	29.18	6.77	0.215	26.2	2	0.1	1	5
7/1/2004	23:44	7/1/2004	23:44	29.14	6.77	0.215	24.9	1.91	0.1	1	5
7/1/2004	23:59	7/1/2004	23:59	29.14	6.78	0.216	27.8	2.13	0.1	1	5
7/2/2004	0:14	7/2/2004	00:14	29.11	6.77	0.217	24.1	1.85	0.1	1	5
7/2/2004	0:29	7/2/2004	00:29	29.09	6.77	0.218	25.4	1.95	0.1	1	5
7/2/2004	0:44	7/2/2004	00:44	29.08	6.77	0.218	26.1	2	0.1	1	5
7/2/2004	0:59	7/2/2004	00:59	29.01	6.77	0.218	23.6	1.81	0.1	1	5
7/2/2004	1:14	7/2/2004	01:14	28.98	6.76	0.218	20.2	1.55	0.1	1	5
7/2/2004	1:29	7/2/2004	01:29	28.94	6.75	0.219	20	1.54	0.1	1	5
7/2/2004	1:44	7/2/2004	01:44	28.9	6.74	0.218	17.1	1.32	0.1	1	5
7/2/2004	1:59	7/2/2004	01:59	28.86	6.75	0.218	18	1.39	0.1	1	5
7/2/2004	2:14	7/2/2004	02:14	28.83	6.74	0.218	17.7	1.36	0.1	1	5
7/2/2004	2:29	7/2/2004	02:29	28.8	6.74	0.218	17	1.31	0.1	1	5
7/2/2004	2:44	7/2/2004	02:44	28.76	6.74	0.217	16.2	1.25	0.1	1	5

7/2/2004	2:59	7/2/2004 02:59	28.73	6.74	0.216	17.1	1.32	0.1	1	5
7/2/2004	3:14	7/2/2004 03:14	28.71	6.75	0.216	17.6	1.36	0.1	1	5
7/2/2004	3:29	7/2/2004 03:29	28.7	6.75	0.215	18.3	1.41	0.1	1	5
7/2/2004	3:44	7/2/2004 03:44	28.69	6.74	0.214	18	1.39	0.1	1	5
7/2/2004	3:59	7/2/2004 03:59	28.68	6.74	0.214	17.3	1.34	0.1	1	5
7/2/2004	4:14	7/2/2004 04:14	28.68	6.75	0.213	18	1.39	0.1	1	5
7/2/2004	4:29	7/2/2004 04:29	28.67	6.75	0.213	17.2	1.33	0.1	1	5
7/2/2004	4:44	7/2/2004 04:44	28.65	6.74	0.212	16.7	1.29	0.1	1	5
7/2/2004	4:59	7/2/2004 04:59	28.63	6.74	0.212	15.6	1.2	0.1	1	5
7/2/2004	5:14	7/2/2004 05:14	28.62	6.74	0.212	14.1	1.09	0.1	1	5
7/2/2004	5:29	7/2/2004 05:29	28.61	6.74	0.212	13	1.01	0.1	1	5
7/2/2004	5:44	7/2/2004 05:44	28.57	6.73	0.212	11.8	0.92	0.1	1	5
7/2/2004	5:59	7/2/2004 05:59	28.55	6.73	0.212	11.4	0.88	0.1	1	5
7/2/2004	6:14	7/2/2004 06:14	28.56	6.73	0.211	11.1	0.86	0.1	1	5
7/2/2004	6:29	7/2/2004 06:29	28.53	6.73	0.21	10.1	0.78	0.1	1	5
7/2/2004	6:44	7/2/2004 06:44	28.5	6.72	0.21	9.3	0.72	0.1	1	5
7/2/2004	6:59	7/2/2004 06:59	28.49	6.72	0.21	9.7	0.75	0.1	1	5
7/2/2004	7:14	7/2/2004 07:14	28.46	6.72	0.209	9.6	0.74	0.1	1	5
7/2/2004	7:29	7/2/2004 07:29	28.45	6.72	0.209	8.8	0.68	0.1	1	5
7/2/2004	7:44	7/2/2004 07:44	28.43	6.72	0.209	8.5	0.66	0.1	1	5
7/2/2004	7:59	7/2/2004 07:59	28.41	6.71	0.209	7.8	0.6	0.1	1	5
7/2/2004	8:14	7/2/2004 08:14	28.4	6.72	0.208	8	0.62	0.1	1	5
7/2/2004	8:29	7/2/2004 08:29	28.42	6.72	0.209	8.9	0.69	0.1	1	5
7/2/2004	8:44	7/2/2004 08:44	28.41	6.71	0.208	8.5	0.66	0.1	1	5
7/2/2004	8:59	7/2/2004 08:59	28.48	6.73	0.209	13.2	1.02	0.1	1	5
7/2/2004	9:14	7/2/2004 09:14	28.36	6.71	0.208	7.1	0.55	0.1	1	5
7/2/2004	9:29	7/2/2004 09:29	28.44	6.72	0.208	9.3	0.72	0.1	1	5
7/2/2004	9:44	7/2/2004 09:44	28.47	6.71	0.208	9.9	0.77	0.1	1	5
7/2/2004	9:59	7/2/2004 09:59	28.72	6.73	0.209	15.6	1.2	0.1	1	5
7/2/2004	10:14	7/2/2004 10:14	28.84	6.73	0.209	16.5	1.27	0.1	1	5
7/2/2004	10:29	7/2/2004 10:29	28.72	6.72	0.209	14.1	1.09	0.1	1	5
7/2/2004	10:44	7/2/2004 10:44	28.74	6.72	0.209	14.3	1.1	0.1	1	5
7/2/2004	10:59	7/2/2004 10:59	29.03	6.73	0.209	18.2	1.4	0.1	1	5

7/2/2004	11:14	7/2/2004	11:14	29.23	6.74	0.209	22.4	1.72	0.1	1	5
7/2/2004	11:29	7/2/2004	11:29	28.65	6.69	0.208	10.2	0.79	0.1	1	5
7/2/2004	11:44	7/2/2004	11:44	29.29	6.77	0.209	26.4	2.02	0.1	1	5
7/2/2004	11:59	7/2/2004	11:59	29.08	6.74	0.209	23.2	1.78	0.1	1	5
7/2/2004	12:14	7/2/2004	12:14	28.88	6.73	0.21	17.2	1.32	0.1	1	5
7/2/2004	12:29	7/2/2004	12:29	28.76	6.73	0.209	15.2	1.17	0.1	1	5
7/2/2004	12:44	7/2/2004	12:44	28.72	6.72	0.209	12.6	0.98	0.1	1	5
7/2/2004	12:59	7/2/2004	12:59	28.7	6.72	0.209	12.2	0.94	0.1	1	5
7/2/2004	13:14	7/2/2004	13:14	28.74	6.72	0.209	12.9	0.99	0.1	1	5
7/2/2004	13:29	7/2/2004	13:29	28.7	6.72	0.209	13.5	1.05	0.1	1	5
7/2/2004	13:44	7/2/2004	13:44	28.68	6.73	0.209	14.4	1.12	0.1	1	5
7/2/2004	13:59	7/2/2004	13:59	28.69	6.73	0.209	13.4	1.03	0.1	1	5
7/2/2004	14:14	7/2/2004	14:14	28.68	6.73	0.209	13.5	1.04	0.1	1	5
7/2/2004	14:29	7/2/2004	14:29	28.7	6.73	0.209	16.7	1.29	0.1	1	5
7/2/2004	14:44	7/2/2004	14:44	28.71	6.73	0.208	16.2	1.25	0.1	1	5
7/2/2004	14:59	7/2/2004	14:59	28.71	6.73	0.208	13.8	1.06	0.1	1	5
7/2/2004	15:14	7/2/2004	15:14	28.75	6.73	0.208	14.3	1.1	0.1	1	5
7/2/2004	15:29	7/2/2004	15:29	28.75	6.73	0.208	14.5	1.12	0.1	1	5
7/2/2004	15:44	7/2/2004	15:44	28.77	6.73	0.209	14.5	1.12	0.1	1	5
7/2/2004	15:59	7/2/2004	15:59	28.85	6.74	0.209	17.9	1.38	0.1	1	5
7/2/2004	16:14	7/2/2004	16:14	28.83	6.72	0.209	13.2	1.02	0.1	1	5
7/2/2004	16:29	7/2/2004	16:29	28.8	6.72	0.208	12.4	0.96	0.1	1	5
7/2/2004	16:44	7/2/2004	16:44	28.85	6.72	0.208	13.8	1.07	0.1	1	5
7/2/2004	16:59	7/2/2004	16:59	29.04	6.75	0.208	19.6	1.5	0.1	1	5
7/2/2004	17:14	7/2/2004	17:14	28.88	6.73	0.208	12.3	0.94	0.1	1	5
7/2/2004	17:29	7/2/2004	17:29	28.92	6.73	0.209	17.1	1.32	0.1	1	5
7/2/2004	17:44	7/2/2004	17:44	29.02	6.74	0.209	21.7	1.67	0.1	1	5
7/2/2004	17:59	7/2/2004	17:59	28.97	6.74	0.208	18.5	1.42	0.1	1	5
7/2/2004	18:14	7/2/2004	18:14	29.09	6.77	0.208	26.5	2.03	0.1	1	5
7/2/2004	18:29	7/2/2004	18:29	29.07	6.76	0.209	24.2	1.86	0.1	1	5
7/2/2004	18:44	7/2/2004	18:44	29.17	6.78	0.208	30	2.3	0.1	1	5
7/2/2004	18:59	7/2/2004	18:59	29.13	6.79	0.208	32.1	2.46	0.1	1	5
7/2/2004	19:14	7/2/2004	19:14	29.08	6.77	0.209	29.8	2.28	0.1	1	5

7/2/2004	19:29	7/2/2004 19:29	29.09	6.77	0.208	26.7	2.05	0.1	1	5
7/2/2004	19:44	7/2/2004 19:44	29.06	6.75	0.208	23.6	1.81	0.1	1	5
7/2/2004	19:59	7/2/2004 19:59	29.02	6.76	0.209	23.3	1.79	0.1	1	5
7/2/2004	20:14	7/2/2004 20:14	29.01	6.76	0.209	24.1	1.86	0.1	1	5
7/2/2004	20:29	7/2/2004 20:29	28.97	6.76	0.209	22.9	1.76	0.1	1	5
7/2/2004	20:44	7/2/2004 20:44	28.96	6.75	0.208	21.5	1.66	0.1	1	5
7/2/2004	20:59	7/2/2004 20:59	28.95	6.74	0.209	19.1	1.47	0.1	1	5
7/2/2004	21:14	7/2/2004 21:14	28.94	6.74	0.209	17.6	1.35	0.1	1	5
7/2/2004	21:29	7/2/2004 21:29	28.91	6.74	0.209	16.9	1.3	0.1	1	5
7/2/2004	21:44	7/2/2004 21:44	28.89	6.73	0.21	15.6	1.2	0.1	1	5
7/2/2004	21:59	7/2/2004 21:59	28.84	6.74	0.209	16.5	1.27	0.1	1	5
7/2/2004	22:14	7/2/2004 22:14	28.78	6.75	0.21	18.5	1.43	0.1	1	5
7/2/2004	22:29	7/2/2004 22:29	28.75	6.75	0.21	16.9	1.3	0.1	1	5
7/2/2004	22:44	7/2/2004 22:44	28.7	6.75	0.21	17.8	1.38	0.1	1	5
7/2/2004	22:59	7/2/2004 22:59	28.68	6.75	0.21	16.8	1.3	0.1	1	5
7/2/2004	23:14	7/2/2004 23:14	28.62	6.76	0.21	17.7	1.37	0.1	1	5
7/2/2004	23:29	7/2/2004 23:29	28.59	6.75	0.21	16	1.24	0.1	1	5
7/2/2004	23:44	7/2/2004 23:44	28.56	6.75	0.211	15.1	1.17	0.1	1	5
7/2/2004	23:59	7/2/2004 23:59	28.51	6.76	0.211	16.1	1.25	0.1	1	5
7/3/2004	0:14	7/3/2004 00:14	28.48	6.76	0.211	16	1.24	0.1	1	5
7/3/2004	0:29	7/3/2004 00:29	28.47	6.76	0.211	16.5	1.28	0.1	1	5
7/3/2004	0:44	7/3/2004 00:44	28.45	6.76	0.211	15.8	1.23	0.1	1	5
7/3/2004	0:59	7/3/2004 00:59	28.41	6.76	0.211	15.5	1.2	0.1	1	5
7/3/2004	1:14	7/3/2004 01:14	28.38	6.75	0.211	14.7	1.14	0.1	1	5
7/3/2004	1:29	7/3/2004 01:29	28.35	6.75	0.211	13.4	1.04	0.1	1	5
7/3/2004	1:44	7/3/2004 01:44	28.3	6.75	0.211	14.1	1.1	0.1	1	5
7/3/2004	1:59	7/3/2004 01:59	28.27	6.74	0.211	11.2	0.87	0.1	1	5
7/3/2004	2:14	7/3/2004 02:14	28.23	6.73	0.21	8.8	0.69	0.1	1	5
7/3/2004	2:29	7/3/2004 02:29	28.19	6.73	0.211	8.1	0.63	0.1	1	5
7/3/2004	2:44	7/3/2004 02:44	28.15	6.73	0.211	7.7	0.6	0.1	1	5
7/3/2004	2:59	7/3/2004 02:59	28.11	6.73	0.211	8	0.63	0.1	1	5
7/3/2004	3:14	7/3/2004 03:14	28.06	6.73	0.211	7.5	0.59	0.1	1	5
7/3/2004	3:29	7/3/2004 03:29	28.04	6.73	0.211	8.2	0.64	0.1	1	5

7/3/2004	3:44	7/3/2004 03:44	28.01	6.73	0.211	7.7	0.6	0.1	1	5
7/3/2004	3:59	7/3/2004 03:59	27.99	6.73	0.21	8.3	0.65	0.1	1	5
7/3/2004	4:14	7/3/2004 04:14	27.96	6.73	0.21	6.8	0.53	0.1	1	5
7/3/2004	4:29	7/3/2004 04:29	27.92	6.72	0.21	7.6	0.59	0.1	1	5
7/3/2004	4:44	7/3/2004 04:44	27.89	6.73	0.21	7.3	0.57	0.1	1	5
7/3/2004	4:59	7/3/2004 04:59	27.88	6.72	0.21	5.3	0.42	0.1	1	5
7/3/2004	5:14	7/3/2004 05:14	27.81	6.72	0.21	4.8	0.38	0.1	1	5
7/3/2004	5:29	7/3/2004 05:29	27.78	6.71	0.209	4.3	0.34	0.1	1	5
7/3/2004	5:44	7/3/2004 05:44	27.73	6.72	0.21	4.4	0.35	0.1	1	5
7/3/2004	5:59	7/3/2004 05:59	27.71	6.71	0.21	3.4	0.27	0.1	1	5
7/3/2004	6:14	7/3/2004 06:14	27.68	6.71	0.21	2.5	0.19	0.1	1	5
7/3/2004	6:29	7/3/2004 06:29	27.63	6.7	0.209	2.2	0.18	0.1	1	5
7/3/2004	6:44	7/3/2004 06:44	27.59	6.7	0.209	1.8	0.14	0.1	1	5
7/3/2004	6:59	7/3/2004 06:59	27.56	6.7	0.209	1.5	0.12	0.1	1	5
7/3/2004	7:14	7/3/2004 07:14	27.53	6.7	0.21	1.9	0.15	0.1	1	5
7/3/2004	7:29	7/3/2004 07:29	27.5	6.69	0.209	1	0.08	0.1	1	5
7/3/2004	7:44	7/3/2004 07:44	27.49	6.7	0.209	1	0.08	0.1	1	5
7/3/2004	7:59	7/3/2004 07:59	27.5	6.7	0.209	1.7	0.14	0.1	1	5
7/3/2004	8:14	7/3/2004 08:14	27.48	6.69	0.209	0.9	0.07	0.1	1	5
7/3/2004	8:29	7/3/2004 08:29	27.49	6.69	0.209	1.3	0.11	0.1	1	5
7/3/2004	8:44	7/3/2004 08:44	27.47	6.69	0.209	1.4	0.11	0.1	1	5
7/3/2004	8:59	7/3/2004 08:59	27.6	6.7	0.209	2.7	0.21	0.1	1	5
7/3/2004	9:14	7/3/2004 09:14	27.61	6.69	0.209	2.5	0.19	0.1	1	5
7/3/2004	9:29	7/3/2004 09:29	27.63	6.69	0.209	2.8	0.22	0.1	1	5
7/3/2004	9:44	7/3/2004 09:44	27.59	6.68	0.209	2.2	0.18	0.1	1	5
7/3/2004	9:59	7/3/2004 09:59	27.6	6.68	0.209	2.1	0.17	0.1	1	5
7/3/2004	10:14	7/3/2004 10:14	27.67	6.68	0.209	3.1	0.25	0.1	1	5
7/3/2004	10:29	7/3/2004 10:29	27.72	6.68	0.209	2.7	0.21	0.1	1	5
7/3/2004	10:44	7/3/2004 10:44	28.06	6.68	0.208	8.3	0.65	0.1	1	5
7/3/2004	10:59	7/3/2004 10:59	28.08	6.68	0.209	8.8	0.68	0.1	1	5
7/3/2004	11:14	7/3/2004 11:14	28.19	6.69	0.209	8.7	0.68	0.1	1	5
7/3/2004	11:29	7/3/2004 11:29	28.24	6.69	0.209	9.9	0.77	0.1	1	5
7/3/2004	11:44	7/3/2004 11:44	28.14	6.68	0.209	9.1	0.71	0.1	1	5

7/3/2004	11:59	7/3/2004	11:59	28.31	6.68	0.209	10.3	0.8	0.1	1	5
7/3/2004	12:14	7/3/2004	12:14	27.99	6.66	0.208	5.1	0.4	0.1	1	5
7/3/2004	12:29	7/3/2004	12:29	28.21	6.66	0.207	8	0.62	0.1	1	5
7/3/2004	12:44	7/3/2004	12:44	28.46	6.67	0.208	11.1	0.86	0.1	1	5
7/3/2004	12:59	7/3/2004	12:59	29.01	6.7	0.209	17.6	1.35	0.1	1	5
7/3/2004	13:14	7/3/2004	13:14	28.85	6.69	0.208	15.6	1.2	0.1	1	5
7/3/2004	13:29	7/3/2004	13:29	28.97	6.69	0.207	17.4	1.34	0.1	1	5
7/3/2004	13:44	7/3/2004	13:44	29.19	6.7	0.207	18	1.38	0.1	1	5
7/3/2004	13:59	7/3/2004	13:59	29.35	6.7	0.207	20.1	1.54	0.1	1	5
7/3/2004	14:14	7/3/2004	14:14	29.21	6.68	0.207	15.5	1.19	0.1	1	5
7/3/2004	14:29	7/3/2004	14:29	29.86	6.74	0.207	27.1	2.05	0.1	1	5
7/3/2004	14:44	7/3/2004	14:44	29.58	6.73	0.207	25.8	1.96	0.1	1	5
7/3/2004	14:59	7/3/2004	14:59	29.47	6.74	0.207	25.1	1.91	0.1	1	5
7/3/2004	15:14	7/3/2004	15:14	29.36	6.72	0.207	20	1.53	0.1	1	5
7/3/2004	15:29	7/3/2004	15:29	29.27	6.71	0.207	15.8	1.21	0.1	1	5
7/3/2004	15:44	7/3/2004	15:44	29.28	6.71	0.207	17.4	1.33	0.1	1	5
7/3/2004	15:59	7/3/2004	15:59	29.26	6.72	0.207	18.2	1.4	0.1	1	5
7/3/2004	16:14	7/3/2004	16:14	29.24	6.73	0.207	18.5	1.42	0.1	1	5
7/3/2004	16:29	7/3/2004	16:29	29.25	6.73	0.207	16.7	1.28	0.1	1	5
7/3/2004	16:44	7/3/2004	16:44	29.24	6.72	0.207	16.4	1.25	0.1	1	5
7/3/2004	16:59	7/3/2004	16:59	29.24	6.72	0.207	16.7	1.28	0.1	1	5
7/3/2004	17:14	7/3/2004	17:14	29.24	6.72	0.207	17.7	1.36	0.1	1	5
7/3/2004	17:29	7/3/2004	17:29	29.25	6.73	0.207	18.5	1.42	0.1	1	5
7/3/2004	17:44	7/3/2004	17:44	29.25	6.73	0.207	18.1	1.38	0.1	1	5
7/3/2004	17:59	7/3/2004	17:59	29.28	6.74	0.207	19.4	1.48	0.1	1	5
7/3/2004	18:14	7/3/2004	18:14	29.32	6.74	0.206	23.1	1.76	0.1	1	5
7/3/2004	18:29	7/3/2004	18:29	29.29	6.74	0.207	19.3	1.47	0.1	1	5
7/3/2004	18:44	7/3/2004	18:44	29.33	6.74	0.207	20.7	1.58	0.1	1	5
7/3/2004	18:59	7/3/2004	18:59	29.34	6.75	0.207	21.3	1.63	0.1	1	5
7/3/2004	19:14	7/3/2004	19:14	29.33	6.75	0.207	21	1.6	0.1	1	5
7/3/2004	19:29	7/3/2004	19:29	29.31	6.75	0.207	20.1	1.54	0.1	1	5
7/3/2004	19:44	7/3/2004	19:44	29.3	6.75	0.207	20	1.53	0.1	1	5
7/3/2004	19:59	7/3/2004	19:59	29.27	6.74	0.207	18.8	1.44	0.1	1	5

7/3/2004	20:14	7/3/2004 20:14	29.26	6.75	0.207	19.1	1.46	0.1	1	5
7/3/2004	20:29	7/3/2004 20:29	29.24	6.74	0.207	19.1	1.46	0.1	1	5
7/3/2004	20:44	7/3/2004 20:44	29.21	6.75	0.208	18.2	1.4	0.1	1	5
7/3/2004	20:59	7/3/2004 20:59	29.19	6.74	0.207	16.9	1.29	0.1	1	5
7/3/2004	21:14	7/3/2004 21:14	29.18	6.74	0.208	16.1	1.24	0.1	1	5
7/3/2004	21:29	7/3/2004 21:29	29.16	6.74	0.208	15.8	1.21	0.1	1	5
7/3/2004	21:44	7/3/2004 21:44	29.14	6.73	0.208	15	1.15	0.1	1	5
7/3/2004	21:59	7/3/2004 21:59	29.1	6.74	0.208	13.2	1.02	0.1	1	5
7/3/2004	22:14	7/3/2004 22:14	29.06	6.73	0.208	13.8	1.06	0.1	1	5
7/3/2004	22:29	7/3/2004 22:29	29.03	6.74	0.208	12.9	0.99	0.1	1	5
7/3/2004	22:44	7/3/2004 22:44	29.02	6.73	0.207	11.1	0.85	0.1	1	5
7/3/2004	22:59	7/3/2004 22:59	29	6.72	0.207	9.4	0.72	0.1	1	5
7/3/2004	23:14	7/3/2004 23:14	28.97	6.72	0.208	8.7	0.67	0.1	1	5
7/3/2004	23:29	7/3/2004 23:29	28.96	6.72	0.208	7.4	0.57	0.1	1	5
7/3/2004	23:44	7/3/2004 23:44	28.94	6.72	0.208	7.5	0.58	0.1	1	5
7/3/2004	23:59	7/3/2004 23:59	28.91	6.72	0.207	7.4	0.57	0.1	1	5
7/4/2004	0:14	7/4/2004 00:14	28.87	6.71	0.208	6.4	0.49	0.1	1	5
7/4/2004	0:29	7/4/2004 00:29	28.8	6.71	0.208	6.1	0.47	0.1	1	5
7/4/2004	0:44	7/4/2004 00:44	28.76	6.71	0.208	5.5	0.42	0.1	1	5
7/4/2004	0:59	7/4/2004 00:59	28.72	6.71	0.208	5.8	0.45	0.1	1	5
7/4/2004	1:14	7/4/2004 01:14	28.68	6.72	0.209	4.9	0.38	0.1	1	5
7/4/2004	1:29	7/4/2004 01:29	28.65	6.72	0.209	4.9	0.38	0.1	1	5
7/4/2004	1:44	7/4/2004 01:44	28.6	6.72	0.21	5.3	0.41	0.1	1	5
7/4/2004	1:59	7/4/2004 01:59	28.58	6.72	0.21	3.7	0.28	0.1	1	5
7/4/2004	2:14	7/4/2004 02:14	28.54	6.72	0.21	3.4	0.27	0.1	1	5
7/4/2004	2:29	7/4/2004 02:29	28.5	6.72	0.21	3	0.23	0.1	1	5
7/4/2004	2:44	7/4/2004 02:44	28.46	6.72	0.21	3.1	0.24	0.1	1	5
7/4/2004	2:59	7/4/2004 02:59	28.42	6.72	0.211	1.9	0.15	0.1	1	5
7/4/2004	3:14	7/4/2004 03:14	28.38	6.72	0.21	1.8	0.14	0.1	1	5
7/4/2004	3:29	7/4/2004 03:29	28.34	6.71	0.211	1.3	0.1	0.1	1	5
7/4/2004	3:44	7/4/2004 03:44	28.31	6.71	0.211	1.4	0.11	0.1	1	5
7/4/2004	3:59	7/4/2004 03:59	28.28	6.72	0.211	1.4	0.11	0.1	1	5
7/4/2004	4:14	7/4/2004 04:14	28.25	6.72	0.211	0.8	0.06	0.1	1	5

7/4/2004	4:29	7/4/2004 04:29	28.22	6.72	0.211	0.3	0.02	0.1	1	5
7/4/2004	4:44	7/4/2004 04:44	28.18	6.72	0.212	0.4	0.03	0.1	1	5
7/4/2004	4:59	7/4/2004 04:59	28.13	6.72	0.213	0.1	0.01	0.1	1	5
7/4/2004	5:14	7/4/2004 05:14	28.1	6.72	0.212	0.4	0.04	0.1	1	5
7/4/2004	5:29	7/4/2004 05:29	28.07	6.72	0.213	0.4	0.03	0.1	1	5
7/4/2004	5:44	7/4/2004 05:44	28.04	6.72	0.212	0.8	0.06	0.1	1	5
7/4/2004	5:59	7/4/2004 05:59	28.02	6.72	0.211	0.7	0.05	0.1	1	5
7/4/2004	6:14	7/4/2004 06:14	27.98	6.72	0.212	0.9	0.07	0.1	1	5
7/4/2004	6:29	7/4/2004 06:29	27.96	6.71	0.212	0.3	0.02	0.1	1	5
7/4/2004	6:44	7/4/2004 06:44	27.94	6.72	0.211	0.4	0.04	0.1	1	5
7/4/2004	6:59	7/4/2004 06:59	27.93	6.72	0.211	0.5	0.04	0.1	1	5
7/4/2004	7:14	7/4/2004 07:14	27.9	6.71	0.211	0.7	0.05	0.1	1	5
7/4/2004	7:29	7/4/2004 07:29	27.89	6.71	0.211	0.4	0.04	0.1	1	5
7/4/2004	7:44	7/4/2004 07:44	27.88	6.71	0.211	0.5	0.04	0.1	1	5
7/4/2004	7:59	7/4/2004 07:59	27.86	6.71	0.21	1.1	0.09	0.1	1	5
7/4/2004	8:14	7/4/2004 08:14	27.89	6.71	0.211	1.6	0.12	0.1	1	5
7/4/2004	8:29	7/4/2004 08:29	27.99	6.72	0.21	2.4	0.19	0.1	1	5
7/4/2004	8:44	7/4/2004 08:44	27.95	6.71	0.21	1.6	0.12	0.1	1	5
7/4/2004	8:59	7/4/2004 08:59	27.99	6.7	0.21	1.9	0.15	0.1	1	5
7/4/2004	9:14	7/4/2004 09:14	27.86	6.69	0.21	0.4	0.04	0.1	1	5
7/4/2004	9:29	7/4/2004 09:29	27.97	6.7	0.21	1.4	0.11	0.1	1	5
7/4/2004	9:44	7/4/2004 09:44	28.04	6.69	0.209	3	0.23	0.1	1	5
7/4/2004	9:59	7/4/2004 09:59	28.05	6.69	0.209	2.5	0.2	0.1	1	5
7/4/2004	10:14	7/4/2004 10:14	28.28	6.69	0.208	4.2	0.33	0.1	1	5
7/4/2004	10:29	7/4/2004 10:29	28.33	6.69	0.208	6.1	0.47	0.1	1	5
7/4/2004	10:44	7/4/2004 10:44	28.29	6.67	0.208	4.2	0.33	0.1	1	5
7/4/2004	10:59	7/4/2004 10:59	28.31	6.68	0.209	3.8	0.3	0.1	1	5
7/4/2004	11:14	7/4/2004 11:14	28.37	6.67	0.208	3.9	0.3	0.1	1	5
7/4/2004	11:29	7/4/2004 11:29	28.55	6.68	0.208	7.6	0.59	0.1	1	5
7/4/2004	11:44	7/4/2004 11:44	28.52	6.68	0.209	5.1	0.39	0.1	1	5
7/4/2004	11:59	7/4/2004 11:59	28.7	6.69	0.21	7	0.54	0.1	1	5
7/4/2004	12:14	7/4/2004 12:14	28.65	6.68	0.209	4.9	0.38	0.1	1	5
7/4/2004	12:29	7/4/2004 12:29	28.76	6.67	0.209	9.4	0.73	0.1	1	5

7/4/2004	12:44	7/4/2004	12:44	28.92	6.68	0.209	10.2	0.78	0.1	1	5
7/4/2004	12:59	7/4/2004	12:59	29.11	6.69	0.209	13.4	1.03	0.1	1	5
7/4/2004	13:14	7/4/2004	13:14	29.07	6.69	0.209	11.6	0.89	0.1	1	5
7/4/2004	13:29	7/4/2004	13:29	29.1	6.69	0.21	11.6	0.89	0.1	1	5
7/4/2004	13:44	7/4/2004	13:44	29.26	6.69	0.209	13.5	1.03	0.1	1	5
7/4/2004	13:59	7/4/2004	13:59	29.29	6.69	0.209	15.8	1.21	0.1	1	5
7/4/2004	14:14	7/4/2004	14:14	29.22	6.69	0.209	13.1	1	0.1	1	5
7/4/2004	14:29	7/4/2004	14:29	29.38	6.69	0.209	16.2	1.24	0.1	1	5
7/4/2004	14:44	7/4/2004	14:44	29.44	6.69	0.209	14.5	1.11	0.1	1	5
7/4/2004	14:59	7/4/2004	14:59	29.74	6.71	0.209	23.5	1.78	0.1	1	5
7/4/2004	15:14	7/4/2004	15:14	29.83	6.7	0.209	21.1	1.6	0.1	1	5
7/4/2004	15:29	7/4/2004	15:29	29.94	6.7	0.208	19.8	1.5	0.1	1	5
7/4/2004	15:44	7/4/2004	15:44	30.06	6.7	0.209	21	1.58	0.1	1	5
7/4/2004	15:59	7/4/2004	15:59	30.3	6.72	0.208	27.1	2.04	0.1	1	5
7/4/2004	16:14	7/4/2004	16:14	30.16	6.7	0.207	22.6	1.7	0.1	1	5
7/4/2004	16:29	7/4/2004	16:29	30.41	6.72	0.207	26.3	1.97	0.1	1	5
7/4/2004	16:44	7/4/2004	16:44	30.23	6.71	0.207	23.6	1.77	0.1	1	5
7/4/2004	16:59	7/4/2004	16:59	30.45	6.73	0.207	29	2.18	0.1	1	5
7/4/2004	17:14	7/4/2004	17:14	30.37	6.71	0.208	24.4	1.83	0.1	1	5
7/4/2004	17:29	7/4/2004	17:29	30.43	6.73	0.208	28.1	2.1	0.1	1	5
7/4/2004	17:44	7/4/2004	17:44	30.47	6.73	0.208	26.8	2.01	0.1	1	5
7/4/2004	17:59	7/4/2004	17:59	30.35	6.71	0.208	22.2	1.66	0.1	1	5
7/4/2004	18:14	7/4/2004	18:14	30.49	6.73	0.208	29	2.17	0.1	1	5
7/4/2004	18:29	7/4/2004	18:29	30.33	6.71	0.208	21.7	1.63	0.1	1	5
7/4/2004	18:44	7/4/2004	18:44	30.23	6.71	0.209	20.2	1.52	0.1	1	5
7/4/2004	18:59	7/4/2004	18:59	30.17	6.71	0.21	18.3	1.38	0.1	1	5
7/4/2004	19:14	7/4/2004	19:14	30.18	6.71	0.211	18.9	1.42	0.1	1	5
7/4/2004	19:29	7/4/2004	19:29	30.19	6.71	0.21	16.5	1.24	0.1	1	5
7/4/2004	19:44	7/4/2004	19:44	30.19	6.71	0.211	16.7	1.25	0.1	1	5
7/4/2004	19:59	7/4/2004	19:59	30.17	6.71	0.211	16.5	1.24	0.1	1	5
7/4/2004	20:14	7/4/2004	20:14	30.16	6.72	0.211	15.7	1.18	0.1	1	5
7/4/2004	20:29	7/4/2004	20:29	30.15	6.71	0.212	13.9	1.05	0.1	1	5
7/4/2004	20:44	7/4/2004	20:44	30.13	6.71	0.211	14.2	1.07	0.1	1	5

7/4/2004	20:59	7/4/2004 20:59	30.11	6.71	0.211	12.7	0.96	0.1	1	5
7/4/2004	21:14	7/4/2004 21:14	30.08	6.71	0.212	13.4	1.01	0.1	1	5
7/4/2004	21:29	7/4/2004 21:29	30.04	6.71	0.212	12.9	0.97	0.1	1	5
7/4/2004	21:44	7/4/2004 21:44	30.02	6.71	0.212	11.4	0.86	0.1	1	5
7/4/2004	21:59	7/4/2004 21:59	30.01	6.71	0.212	10.3	0.78	0.1	1	5
7/4/2004	22:14	7/4/2004 22:14	29.97	6.71	0.212	9.9	0.75	0.1	1	5
7/4/2004	22:29	7/4/2004 22:29	29.95	6.71	0.213	10.4	0.78	0.1	1	5
7/4/2004	22:44	7/4/2004 22:44	29.93	6.71	0.212	10.7	0.81	0.1	1	5
7/4/2004	22:59	7/4/2004 22:59	29.91	6.71	0.213	9.6	0.73	0.1	1	5
7/4/2004	23:14	7/4/2004 23:14	29.9	6.71	0.213	7.9	0.6	0.1	1	5
7/4/2004	23:29	7/4/2004 23:29	29.88	6.72	0.213	10.5	0.79	0.1	1	5
7/4/2004	23:44	7/4/2004 23:44	29.85	6.72	0.214	10.9	0.83	0.1	1	5
7/4/2004	23:59	7/4/2004 23:59	29.84	6.72	0.214	10.7	0.81	0.1	1	5
7/5/2004	0:14	7/5/2004 00:14	29.83	6.72	0.214	11.3	0.85	0.1	1	5
7/5/2004	0:29	7/5/2004 00:29	29.79	6.72	0.214	12.3	0.93	0.1	1	5
7/5/2004	0:44	7/5/2004 00:44	29.79	6.73	0.213	11.4	0.87	0.1	1	5
7/5/2004	0:59	7/5/2004 00:59	29.76	6.72	0.213	10.8	0.82	0.1	1	5
7/5/2004	1:14	7/5/2004 01:14	29.73	6.72	0.213	11.3	0.86	0.1	1	5
7/5/2004	1:29	7/5/2004 01:29	29.72	6.72	0.213	10.5	0.79	0.1	1	5
7/5/2004	1:44	7/5/2004 01:44	29.71	6.72	0.213	9.9	0.75	0.1	1	5
7/5/2004	1:59	7/5/2004 01:59	29.69	6.71	0.213	9	0.68	0.1	1	5
7/5/2004	2:14	7/5/2004 02:14	29.69	6.71	0.213	9.4	0.71	0.1	1	5
7/5/2004	2:29	7/5/2004 02:29	29.64	6.7	0.212	8.2	0.62	0.1	1	5
7/5/2004	2:44	7/5/2004 02:44	29.62	6.71	0.212	7.8	0.6	0.1	1	5
7/5/2004	2:59	7/5/2004 02:59	29.6	6.7	0.212	7.3	0.56	0.1	1	5
7/5/2004	3:14	7/5/2004 03:14	29.59	6.7	0.213	6.1	0.46	0.1	1	5
7/5/2004	3:29	7/5/2004 03:29	29.55	6.7	0.213	5.7	0.43	0.1	1	5
7/5/2004	3:44	7/5/2004 03:44	29.53	6.7	0.212	5.1	0.39	0.1	1	5
7/5/2004	3:59	7/5/2004 03:59	29.49	6.7	0.213	4.6	0.35	0.1	1	5
7/5/2004	4:14	7/5/2004 04:14	29.48	6.7	0.213	4.3	0.32	0.1	1	5
7/5/2004	4:29	7/5/2004 04:29	29.46	6.7	0.213	4.6	0.35	0.1	1	5
7/5/2004	4:44	7/5/2004 04:44	29.44	6.7	0.213	3.2	0.25	0.1	1	5
7/5/2004	4:59	7/5/2004 04:59	29.41	6.7	0.214	2.8	0.21	0.1	1	5

7/5/2004	5:14	7/5/2004 05:14	29.37	6.7	0.213	2.7	0.21	0.1	1	5
7/5/2004	5:29	7/5/2004 05:29	29.34	6.7	0.214	2.7	0.21	0.1	1	5
7/5/2004	5:44	7/5/2004 05:44	29.28	6.7	0.212	2.7	0.21	0.1	1	5
7/5/2004	5:59	7/5/2004 05:59	29.26	6.7	0.213	2.8	0.21	0.1	1	5
7/5/2004	6:14	7/5/2004 06:14	29.22	6.7	0.213	3.1	0.24	0.1	1	5
7/5/2004	6:29	7/5/2004 06:29	29.18	6.7	0.212	3.4	0.26	0.1	1	5
7/5/2004	6:44	7/5/2004 06:44	29.14	6.69	0.211	2.2	0.17	0.1	1	5
7/5/2004	6:59	7/5/2004 06:59	29.12	6.69	0.212	2	0.15	0.1	1	5
7/5/2004	7:14	7/5/2004 07:14	29.11	6.69	0.212	1.9	0.14	0.1	1	5
7/5/2004	7:29	7/5/2004 07:29	29.1	6.7	0.213	2.1	0.16	0.1	1	5
7/5/2004	7:44	7/5/2004 07:44	29.06	6.7	0.211	1.3	0.1	0.1	1	5
7/5/2004	7:59	7/5/2004 07:59	29.1	6.69	0.21	2	0.15	0.1	1	5
7/5/2004	8:14	7/5/2004 08:14	29.15	6.7	0.21	1.7	0.13	0.1	1	5
7/5/2004	8:29	7/5/2004 08:29	29.17	6.7	0.211	2.1	0.16	0.1	1	5
7/5/2004	8:44	7/5/2004 08:44	29.24	6.7	0.211	3.2	0.25	0.1	1	5
7/5/2004	8:59	7/5/2004 08:59	29.36	6.7	0.211	5.8	0.44	0.1	1	5
7/5/2004	9:14	7/5/2004 09:14	29.52	6.71	0.21	6.5	0.5	0.1	1	5
7/5/2004	9:29	7/5/2004 09:29	29.82	6.72	0.209	12.2	0.92	0.1	1	5
7/5/2004	9:44	7/5/2004 09:44	30.07	6.72	0.208	14.5	1.09	0.1	1	5
7/5/2004	9:59	7/5/2004 09:59	30.14	6.71	0.207	14	1.06	0.1	1	5
7/5/2004	10:14	7/5/2004 10:14	30.07	6.71	0.208	11.6	0.88	0.1	1	5
7/5/2004	10:29	7/5/2004 10:29	30.19	6.71	0.207	10.3	0.78	0.1	1	5
7/5/2004	10:44	7/5/2004 10:44	30.36	6.74	0.204	22	1.65	0.09	1	5
7/5/2004	10:59	7/5/2004 10:59	30.91	6.77	0.203	27.3	2.03	0.09	1	5
7/5/2004	11:14	7/5/2004 11:14	30.31	6.7	0.204	14	1.05	0.09	1	5
7/5/2004	11:29	7/5/2004 11:29	30.21	6.7	0.206	15.5	1.16	0.09	1	5
7/5/2004	11:44	7/5/2004 11:44	30.95	6.73	0.205	23.7	1.76	0.09	1	5
7/5/2004	11:59	7/5/2004 11:59	30.26	6.7	0.204	22.2	1.67	0.09	1	5
7/5/2004	12:14	7/5/2004 12:14	30.4	6.69	0.204	17.8	1.34	0.09	1	5
7/5/2004	12:29	7/5/2004 12:29	30.19	6.68	0.207	15.8	1.19	0.1	1	5
7/5/2004	12:44	7/5/2004 12:44	30.3	6.69	0.207	17.8	1.34	0.1	1	5
7/5/2004	12:59	7/5/2004 12:59	30.43	6.67	0.204	15.8	1.19	0.09	1	5
7/5/2004	13:14	7/5/2004 13:14	31.61	6.78	0.202	42.6	3.13	0.09	1	5

7/5/2004	13:29	7/5/2004	13:29	32.03	6.7	0.2	13.3	0.97	0.09	1	5
7/5/2004	13:44	7/5/2004	13:44	31.58	6.77	0.202	38.5	2.83	0.09	1	5
7/5/2004	13:59	7/5/2004	13:59	31.63	6.75	0.1998	36.7	2.7	0.09	1	5
7/5/2004	14:14	7/5/2004	14:14	31.72	6.77	0.2	41.1	3.02	0.09	1	5
7/5/2004	14:29	7/5/2004	14:29	31.88	6.75	0.201	29.8	2.18	0.09	1	5
7/5/2004	14:44	7/5/2004	14:44	32.12	6.8	0.199	42.5	3.1	0.09	1	5
7/5/2004	14:59	7/5/2004	14:59	32.25	6.82	0.1985	49.7	3.61	0.09	1	5
7/5/2004	15:14	7/5/2004	15:14	32.51	6.83	0.1997	50.4	3.65	0.09	1	5
7/5/2004	15:29	7/5/2004	15:29	31.47	6.75	0.1993	31.9	2.35	0.09	1	5
7/5/2004	15:44	7/5/2004	15:44	31.92	6.79	0.1992	42.6	3.11	0.09	1	5
7/5/2004	15:59	7/5/2004	15:59	32.24	6.82	0.1984	47.4	3.44	0.09	1	5
7/5/2004	16:14	7/5/2004	16:14	32.35	6.82	0.198	44.6	3.24	0.09	1	5
7/5/2004	16:29	7/5/2004	16:29	32.47	6.86	0.1974	58.8	4.26	0.09	1	5
7/5/2004	16:44	7/5/2004	16:44	32.67	6.88	0.1969	58.3	4.21	0.09	1	5
7/5/2004	16:59	7/5/2004	16:59	31.92	6.8	0.198	41.8	3.05	0.09	1	5
7/5/2004	17:14	7/5/2004	17:14	32.22	6.83	0.1967	51.5	3.74	0.09	1	5
7/5/2004	17:29	7/5/2004	17:29	32.12	6.81	0.1976	45.4	3.3	0.09	1	5
7/5/2004	17:44	7/5/2004	17:44	32.07	6.81	0.1979	45.7	3.33	0.09	1	5
7/5/2004	17:59	7/5/2004	17:59	32.01	6.8	0.1971	42.4	3.09	0.09	1	5
7/5/2004	18:14	7/5/2004	18:14	31.73	6.76	0.1977	32	2.35	0.09	1	5
7/5/2004	18:29	7/5/2004	18:29	31.75	6.75	0.1981	28.8	2.11	0.09	1	5
7/5/2004	18:44	7/5/2004	18:44	31.73	6.76	0.198	30.2	2.22	0.09	1	5
7/5/2004	18:59	7/5/2004	18:59	31.79	6.77	0.1985	35.1	2.57	0.09	1	5
7/5/2004	19:14	7/5/2004	19:14	31.78	6.77	0.1985	34.5	2.53	0.09	1	5
7/5/2004	19:29	7/5/2004	19:29	31.79	6.77	0.1989	33.9	2.48	0.09	1	5
7/5/2004	19:44	7/5/2004	19:44	31.79	6.77	0.1988	34.3	2.51	0.09	1	5
7/5/2004	19:59	7/5/2004	19:59	31.8	6.79	0.1981	36.9	2.7	0.09	1	5
7/5/2004	20:14	7/5/2004	20:14	31.79	6.79	0.1978	35.5	2.6	0.09	1	5
7/5/2004	20:29	7/5/2004	20:29	31.75	6.78	0.1984	31.6	2.32	0.09	1	5
7/5/2004	20:44	7/5/2004	20:44	31.7	6.79	0.1986	33.4	2.45	0.09	1	5
7/5/2004	20:59	7/5/2004	20:59	31.63	6.79	0.1986	33.4	2.45	0.09	1	5
7/5/2004	21:14	7/5/2004	21:14	31.57	6.78	0.1985	29.4	2.16	0.09	1	5
7/5/2004	21:29	7/5/2004	21:29	31.5	6.77	0.1992	28.3	2.08	0.09	1	5

7/5/2004	21:44	7/5/2004	21:44	31.47	6.75	0.1993	24.6	1.81	0.09	1	5
7/5/2004	21:59	7/5/2004	21:59	31.4	6.75	0.2	23	1.69	0.09	1	5
7/5/2004	22:14	7/5/2004	22:14	31.35	6.74	0.2	20.9	1.54	0.09	1	5
7/5/2004	22:29	7/5/2004	22:29	31.3	6.75	0.201	21	1.55	0.09	1	5
7/5/2004	22:44	7/5/2004	22:44	31.27	6.73	0.201	17.9	1.32	0.09	1	5
7/5/2004	22:59	7/5/2004	22:59	31.22	6.73	0.201	16.9	1.25	0.09	1	5
7/5/2004	23:14	7/5/2004	23:14	31.18	6.73	0.201	17.7	1.31	0.09	1	5
7/5/2004	23:29	7/5/2004	23:29	31.15	6.72	0.201	15.5	1.15	0.09	1	5
7/5/2004	23:44	7/5/2004	23:44	31.12	6.72	0.201	13.1	0.97	0.09	1	5
7/5/2004	23:59	7/5/2004	23:59	31.1	6.73	0.202	14.3	1.06	0.09	1	5
7/6/2004	0:14	7/6/2004	00:14	31.08	6.73	0.204	14.1	1.05	0.09	1	5
7/6/2004	0:29	7/6/2004	00:29	31.05	6.72	0.204	12.2	0.91	0.09	1	5
7/6/2004	0:44	7/6/2004	00:44	31.02	6.72	0.206	11.9	0.89	0.09	1	5
7/6/2004	0:59	7/6/2004	00:59	30.98	6.72	0.203	10.6	0.79	0.09	1	5
7/6/2004	1:14	7/6/2004	01:14	30.95	6.72	0.204	11.1	0.83	0.09	1	5
7/6/2004	1:29	7/6/2004	01:29	30.92	6.72	0.204	11.6	0.86	0.09	1	5
7/6/2004	1:44	7/6/2004	01:44	30.88	6.72	0.203	11	0.82	0.09	1	5
7/6/2004	1:59	7/6/2004	01:59	30.85	6.71	0.203	9.9	0.73	0.09	1	5
7/6/2004	2:14	7/6/2004	02:14	30.81	6.71	0.203	9.4	0.7	0.09	1	5
7/6/2004	2:29	7/6/2004	02:29	30.79	6.71	0.203	8.5	0.63	0.09	1	5
7/6/2004	2:44	7/6/2004	02:44	30.75	6.7	0.203	7.3	0.55	0.09	1	5
7/6/2004	2:59	7/6/2004	02:59	30.71	6.71	0.203	7.8	0.58	0.09	1	5
7/6/2004	3:14	7/6/2004	03:14	30.68	6.7	0.204	6.7	0.5	0.09	1	5
7/6/2004	3:29	7/6/2004	03:29	30.66	6.7	0.204	5.3	0.4	0.09	1	5
7/6/2004	3:44	7/6/2004	03:44	30.64	6.7	0.204	6.5	0.49	0.09	1	5
7/6/2004	3:59	7/6/2004	03:59	30.61	6.71	0.203	7.5	0.56	0.09	1	5
7/6/2004	4:14	7/6/2004	04:14	30.59	6.71	0.203	6.5	0.49	0.09	1	5
7/6/2004	4:29	7/6/2004	04:29	30.56	6.7	0.203	5.4	0.41	0.09	1	5
7/6/2004	4:44	7/6/2004	04:44	30.55	6.7	0.203	5.6	0.42	0.09	1	5
7/6/2004	4:59	7/6/2004	04:59	30.5	6.7	0.203	5	0.37	0.09	1	5
7/6/2004	5:14	7/6/2004	05:14	30.48	6.7	0.202	4.8	0.36	0.09	1	5
7/6/2004	5:29	7/6/2004	05:29	30.45	6.7	0.201	4	0.3	0.09	1	5
7/6/2004	5:44	7/6/2004	05:44	30.42	6.7	0.201	4.4	0.33	0.09	1	5

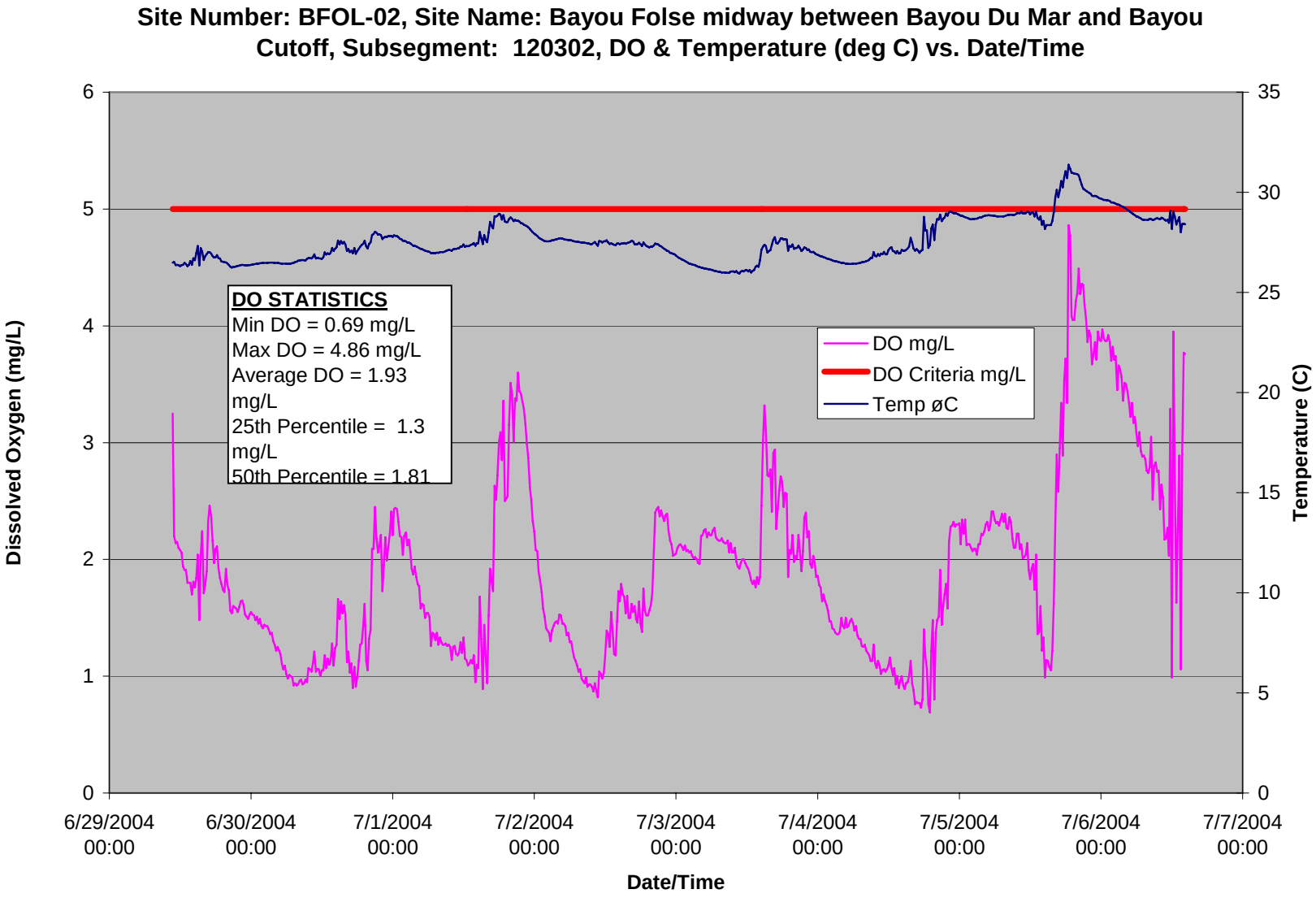
7/6/2004	5:59	7/6/2004 05:59	30.39	6.7	0.203	3.7	0.27	0.09	1	5
7/6/2004	6:14	7/6/2004 06:14	30.36	6.7	0.206	3	0.22	0.09	1	5
7/6/2004	6:29	7/6/2004 06:29	30.32	6.7	0.201	3.3	0.25	0.09	1	5
7/6/2004	6:44	7/6/2004 06:44	30.28	6.71	0.201	2.6	0.2	0.09	1	5
7/6/2004	6:59	7/6/2004 06:59	30.25	6.71	0.201	2.2	0.17	0.09	1	5
7/6/2004	7:14	7/6/2004 07:14	30.2	6.71	0.203	2.8	0.21	0.09	1	5
7/6/2004	7:29	7/6/2004 07:29	30.15	6.7	0.202	1.3	0.1	0.09	1	5
7/6/2004	7:44	7/6/2004 07:44	30.11	6.71	0.203	1.5	0.11	0.09	1	5
7/6/2004	7:59	7/6/2004 07:59	30.09	6.71	0.203	1.6	0.12	0.09	1	5
7/6/2004	8:14	7/6/2004 08:14	30.08	6.71	0.202	2.2	0.17	0.09	1	5
7/6/2004	8:29	7/6/2004 08:29	30.13	6.72	0.201	3.4	0.26	0.09	1	5
7/6/2004	8:44	7/6/2004 08:44	30.19	6.71	0.201	4.6	0.35	0.09	1	5
7/6/2004	8:59	7/6/2004 08:59	30.27	6.71	0.201	4.9	0.37	0.09	1	5
7/6/2004	9:14	7/6/2004 09:14	30.38	6.71	0.2	5.6	0.42	0.09	1	5
7/6/2004	9:29	7/6/2004 09:29	30.35	6.7	0.1994	5.2	0.39	0.09	1	5
7/6/2004	9:44	7/6/2004 09:44	30.56	6.71	0.1969	7.9	0.59	0.09	1	5
7/6/2004	9:59	7/6/2004 09:59	30.8	6.71	0.1957	11	0.82	0.09	1	5
7/6/2004	10:14	7/6/2004 10:14	30.62	6.69	0.1937	8.8	0.66	0.09	1	5
7/6/2004	10:29	7/6/2004 10:29	30.59	6.71	0.1937	10.3	0.77	0.09	1	5
7/6/2004	10:44	7/6/2004 10:44	30.97	6.73	0.1923	14.5	1.08	0.09	1	5
7/6/2004	10:59	7/6/2004 10:59	30.88	6.73	0.1931	14.4	1.07	0.09	1	5
7/6/2004	11:14	7/6/2004 11:14	31.01	6.73	0.1928	13.9	1.03	0.09	1	5
7/6/2004	11:29	7/6/2004 11:29	31.42	6.78	0.192	25.4	1.87	0.09	1	5
7/6/2004	11:44	7/6/2004 11:44	31.39	6.77	0.1914	23.9	1.76	0.09	1	5
7/6/2004	11:59	7/6/2004 11:59	30.21	6.68	0.1962	3.7	0.28	0.09	1	5
7/6/2004	12:14	7/6/2004 12:14	30.28	6.68	0.1973	5.8	0.44	0.09	1	5
7/6/2004	12:29	7/6/2004 12:29	30.94	6.75	0.1948	21.1	1.57	0.09	1	5
7/6/2004	12:44	7/6/2004 12:44	30.88	6.74	0.193	21.9	1.63	0.09	1	5
7/6/2004	12:59	7/6/2004 12:59	30.72	6.72	0.1935	16.6	1.24	0.09	1	5
7/6/2004	13:14	7/6/2004 13:14	30.49	6.69	0.1943	11.1	0.83	0.09	1	5
7/6/2004	13:29	7/6/2004 13:29	30.64	6.75	0.1931	19.8	1.48	0.09	1	5
7/6/2004	13:44	7/6/2004 13:44	30.6	6.77	0.1923	24	1.79	0.09	1	5
7/6/2004	13:59	7/6/2004 13:59	30.58	6.76	0.1922	22.5	1.69	0.09	1	5

7/6/2004	14:14	7/6/2004 14:14	30.38	6.74	0.1914	16.9	1.27	0.09	1	5
7/6/2004	14:29	7/6/2004 14:29	30.26	6.73	0.1915	15.3	1.15	0.09	1	5
7/6/2004	14:44	7/6/2004 14:44	30.12	6.71	0.1907	9.9	0.75	0.09	1	5

Site Number: BFOL-01 Site Name: Bayou Folse approx 0.5 mi above Company Canal
Subsegment #: 120302 Date: 6/29/2004

	Temp deg C	pH	SpCond uS/cm	DO %	DO mg/L
Minimum	26.97	6.66	0.19	0.10	0.01
Maximum	32.67	6.88	0.24	58.80	4.26
Average	29.04	6.74	0.21	15.64	1.19
25th Percentile	28.15	6.71	0.21	7.40	0.57
30th Percentile	28.34	6.71	0.21	8.50	0.66
40th Percentile	28.63	6.72	0.21	11.00	0.85
50th Percentile	28.85	6.73	0.21	13.90	1.06
Standard Deviation	1.17	0.04	0.01	11.55	0.86
Variance	1.36	0.00	0.00	133.37	0.75

Data Row Count	693	
Total Values Failing DO Criteria	693	
Percent failing DO Criteria	100.00	%


Site Number: BFOL-02, Site Name: Bayou Folse midway between Bayou Du Mar and Bayou Cutoff, Subsegment: 120302, DO & Temperature (deg C) vs. Date/Time
DO STATISTICS
Min DO = 0.69 mg/L
Max DO = 4.86 mg/L
Average DO = 1.93 mg/L
25th Percentile = 1.3 mg/L
50th Percentile = 1.81
DO mg/L
DO Criteria mg/L
Temp øC
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
0
1
2
3
4
5
6
0
5
10
15
20
25
30
35
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
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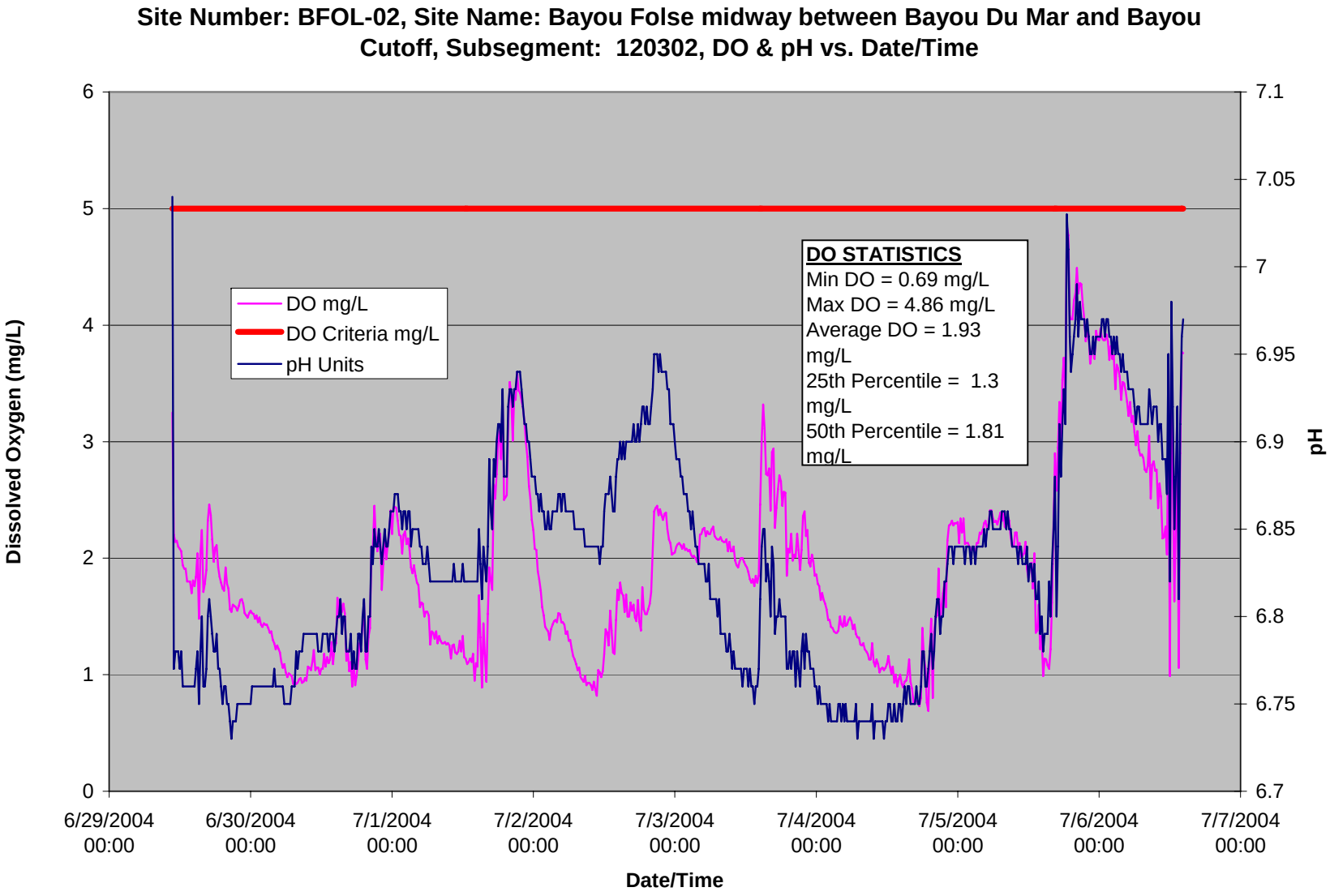
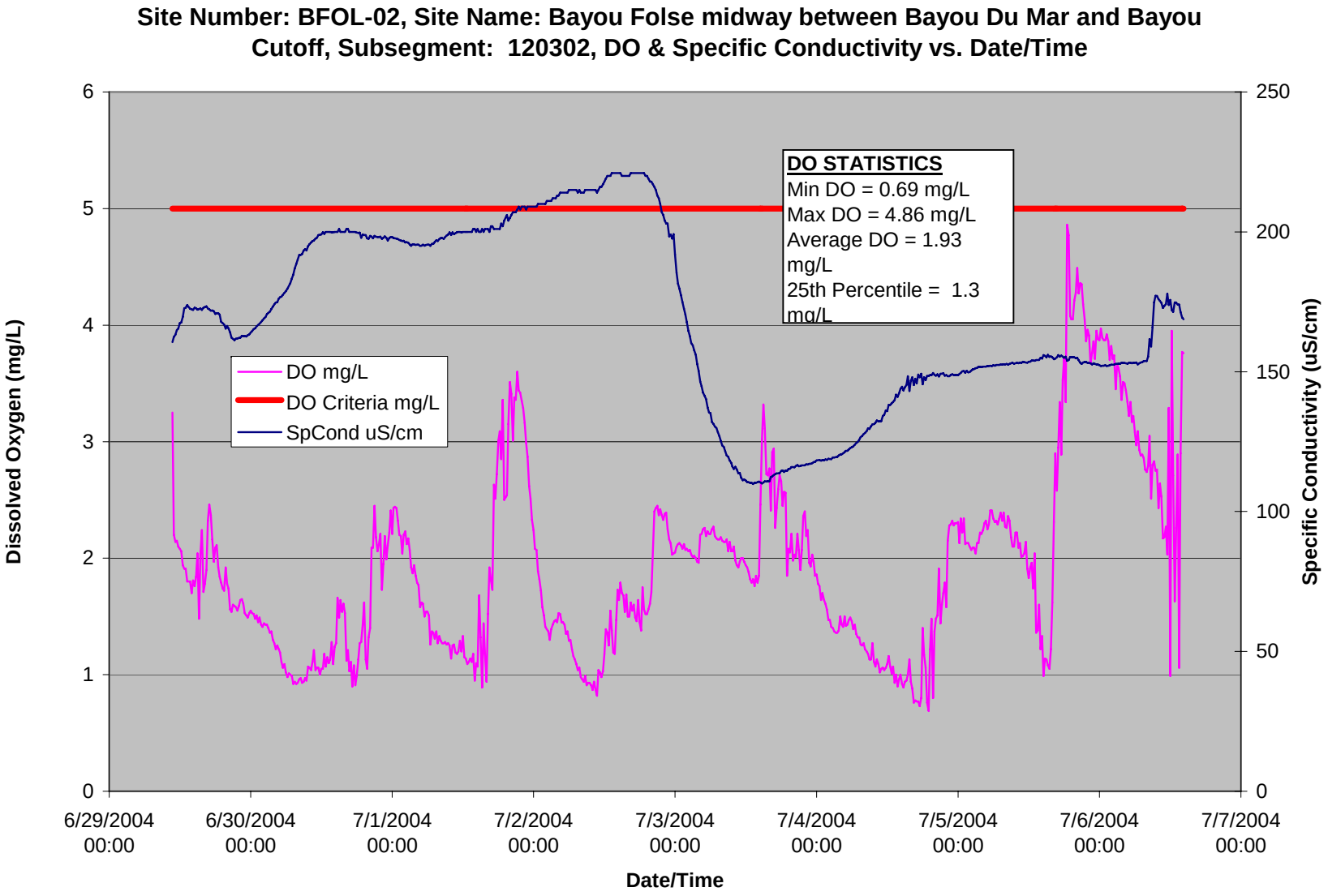
7/6/2004 00:00
7/7/2004 00:00


Site Number: BFOL-02, Site Name: Bayou Folse midway between Bayou Du Mar and Bayou Cutoff, Subsegment: 120302, DO & pH vs. Date/Time
Dissolved Oxygen (mg/L)
pH
Date/Time
DO mg/L
DO Criteria mg/L
pH Units
DO STATISTICS
Min DO = 0.69 mg/L
Max DO = 4.86 mg/L
Average DO = 1.93 mg/L
25th Percentile = 1.3 mg/L
50th Percentile = 1.81 mg/L
0
1
2
3
4
5
6
6.7
6.75
6.8
6.85
6.9
6.95
7
7.05
7.1
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BFOL-02, Site Name: Bayou Folse midway between Bayou Du Mar and Bayou Cutoff, Subsegment: 120302, DO & Specific Conductivity vs. Date/Time
DO STATISTICS
Min DO = 0.69 mg/L
Max DO = 4.86 mg/L
Average DO = 1.93 mg/L
25th Percentile = 1.3 mg/L
DO mg/L
DO Criteria mg/L
SpCond uS/cm
Dissolved Oxygen (mg/L)
Specific Conductivity (uS/cm)
Date/Time
0
1
2
3
4
5
6
0
50
100
150
200
250
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00

Bayou Cutoff Site BFOL-02 Continuous Monitoring Data

Date_ Time	Date+Time	Temp	pH	SpCond	DO PERCENT		DO	SALINITY	Is DO < Criteria	DO Criteria
MMDDYY	HHMM	MMDDYYYY HHMM	øC	Units	uS/cm	Sat	mg/L	ppt	5	mg/L
6/29/2004	10:45	6/29/2004 10:45	26.49	7.04	160.6	40.5	3.25	0.07	1	5
6/29/2004	11:00	6/29/2004 11:00	26.52	6.77	162.4	27.4	2.2	0.07	1	5
6/29/2004	11:15	6/29/2004 11:15	26.36	6.78	163.2	26.6	2.14	0.07	1	5
6/29/2004	11:30	6/29/2004 11:30	26.38	6.78	164.9	26.6	2.15	0.07	1	5
6/29/2004	11:45	6/29/2004 11:45	26.36	6.78	165.4	26.1	2.1	0.07	1	5
6/29/2004	12:00	6/29/2004 12:00	26.31	6.77	167.4	25.8	2.08	0.07	1	5
6/29/2004	12:15	6/29/2004 12:15	26.36	6.78	167.6	25.5	2.06	0.07	1	5
6/29/2004	12:30	6/29/2004 12:30	26.38	6.76	169.6	24.1	1.94	0.08	1	5
6/29/2004	12:45	6/29/2004 12:45	26.48	6.76	172.7	23.7	1.91	0.08	1	5
6/29/2004	13:00	6/29/2004 13:00	26.43	6.76	172.9	23.7	1.91	0.08	1	5
6/29/2004	13:15	6/29/2004 13:15	26.31	6.76	173.8	22.4	1.8	0.08	1	5
6/29/2004	13:30	6/29/2004 13:30	26.38	6.76	173.1	22.4	1.8	0.08	1	5
6/29/2004	13:45	6/29/2004 13:45	26.57	6.76	172.5	22.4	1.8	0.08	1	5
6/29/2004	14:00	6/29/2004 14:00	26.37	6.76	172.3	21.1	1.7	0.08	1	5
6/29/2004	14:15	6/29/2004 14:15	26.71	6.76	172.1	22.6	1.81	0.08	1	5
6/29/2004	14:30	6/29/2004 14:30	26.61	6.76	172.9	21.9	1.76	0.08	1	5
6/29/2004	14:45	6/29/2004 14:45	26.97	6.77	172.7	23.1	1.84	0.08	1	5
6/29/2004	15:00	6/29/2004 15:00	27.32	6.78	172.2	25.8	2.04	0.08	1	5
6/29/2004	15:15	6/29/2004 15:15	26.35	6.75	172.4	18.4	1.48	0.08	1	5
6/29/2004	15:30	6/29/2004 15:30	27.21	6.78	172.6	25.7	2.04	0.08	1	5
6/29/2004	15:45	6/29/2004 15:45	27.04	6.8	172.1	28.1	2.24	0.08	1	5
6/29/2004	16:00	6/29/2004 16:00	26.62	6.76	172.9	21.3	1.71	0.08	1	5
6/29/2004	16:15	6/29/2004 16:15	26.81	6.76	173.1	22.2	1.78	0.08	1	5
6/29/2004	16:30	6/29/2004 16:30	26.92	6.77	173.4	23.9	1.9	0.08	1	5
6/29/2004	16:45	6/29/2004 16:45	27.01	6.8	172.6	29.1	2.32	0.08	1	5
6/29/2004	17:00	6/29/2004 17:00	27.01	6.81	172.3	30.9	2.46	0.08	1	5
6/29/2004	17:15	6/29/2004 17:15	26.94	6.8	171.8	29.8	2.37	0.08	1	5
6/29/2004	17:30	6/29/2004 17:30	26.82	6.79	171.9	27	2.16	0.08	1	5
6/29/2004	17:45	6/29/2004 17:45	26.74	6.78	171.6	24.6	1.97	0.08	1	5
6/29/2004	18:00	6/29/2004 18:00	26.76	6.78	170.7	26.1	2.09	0.08	1	5

6/29/2004	18:15	6/29/2004	18:15	26.87	6.79	170.9	26.4	2.11	0.08	1	5
6/29/2004	18:30	6/29/2004	18:30	26.71	6.77	170.9	24	1.92	0.08	1	5
6/29/2004	18:45	6/29/2004	18:45	26.69	6.77	170.4	23	1.84	0.08	1	5
6/29/2004	19:00	6/29/2004	19:00	26.55	6.76	167.9	22.3	1.79	0.07	1	5
6/29/2004	19:15	6/29/2004	19:15	26.53	6.75	167.3	21.7	1.74	0.07	1	5
6/29/2004	19:30	6/29/2004	19:30	26.51	6.76	166.9	21.5	1.72	0.07	1	5
6/29/2004	19:45	6/29/2004	19:45	26.5	6.76	165.4	23.9	1.92	0.07	1	5
6/29/2004	20:00	6/29/2004	20:00	26.45	6.75	166.4	22.1	1.78	0.07	1	5
6/29/2004	20:15	6/29/2004	20:15	26.37	6.75	165.5	21.5	1.74	0.07	1	5
6/29/2004	20:30	6/29/2004	20:30	26.29	6.74	164.1	19.4	1.56	0.07	1	5
6/29/2004	20:45	6/29/2004	20:45	26.24	6.73	162.2	19.1	1.54	0.07	1	5
6/29/2004	21:00	6/29/2004	21:00	26.28	6.74	161.7	19.8	1.6	0.07	1	5
6/29/2004	21:15	6/29/2004	21:15	26.28	6.74	161.3	19.8	1.59	0.07	1	5
6/29/2004	21:30	6/29/2004	21:30	26.3	6.74	161.8	19.6	1.58	0.07	1	5
6/29/2004	21:45	6/29/2004	21:45	26.33	6.75	161.9	19.3	1.55	0.07	1	5
6/29/2004	22:00	6/29/2004	22:00	26.34	6.75	162.1	19.7	1.59	0.07	1	5
6/29/2004	22:15	6/29/2004	22:15	26.36	6.75	162.2	20.3	1.64	0.07	1	5
6/29/2004	22:30	6/29/2004	22:30	26.37	6.75	162.9	20.5	1.65	0.07	1	5
6/29/2004	22:45	6/29/2004	22:45	26.36	6.75	162.8	20	1.61	0.07	1	5
6/29/2004	23:00	6/29/2004	23:00	26.35	6.75	162.8	19	1.53	0.07	1	5
6/29/2004	23:15	6/29/2004	23:15	26.35	6.75	162.6	18.8	1.51	0.07	1	5
6/29/2004	23:30	6/29/2004	23:30	26.36	6.75	163	18.5	1.49	0.07	1	5
6/29/2004	23:45	6/29/2004	23:45	26.36	6.75	163.3	19	1.53	0.07	1	5
6/30/2004	0:00	6/30/2004	00:00	26.37	6.75	164	19.2	1.55	0.07	1	5
6/30/2004	0:15	6/30/2004	00:15	26.39	6.76	164.5	19	1.53	0.07	1	5
6/30/2004	0:30	6/30/2004	00:30	26.41	6.76	165.2	18.9	1.52	0.07	1	5
6/30/2004	0:45	6/30/2004	00:45	26.42	6.76	165.5	18.4	1.48	0.07	1	5
6/30/2004	1:00	6/30/2004	01:00	26.44	6.76	166.2	18.8	1.51	0.07	1	5
6/30/2004	1:15	6/30/2004	01:15	26.44	6.76	166.7	18.1	1.45	0.07	1	5
6/30/2004	1:30	6/30/2004	01:30	26.46	6.76	167.2	18.5	1.49	0.07	1	5
6/30/2004	1:45	6/30/2004	01:45	26.46	6.76	167.8	17.8	1.43	0.07	1	5
6/30/2004	2:00	6/30/2004	02:00	26.48	6.76	168.4	17.5	1.41	0.07	1	5
6/30/2004	2:15	6/30/2004	02:15	26.48	6.76	169	18	1.44	0.08	1	5

6/30/2004	2:30	6/30/2004 02:30	26.48	6.76	169.5	17.8	1.43	0.08	1	5
6/30/2004	2:45	6/30/2004 02:45	26.48	6.76	170.6	17.7	1.43	0.08	1	5
6/30/2004	3:00	6/30/2004 03:00	26.49	6.76	171	17.4	1.4	0.08	1	5
6/30/2004	3:15	6/30/2004 03:15	26.49	6.76	171.5	16.9	1.36	0.08	1	5
6/30/2004	3:30	6/30/2004 03:30	26.49	6.76	172.4	17.1	1.37	0.08	1	5
6/30/2004	3:45	6/30/2004 03:45	26.49	6.76	173.3	16.2	1.3	0.08	1	5
6/30/2004	4:00	6/30/2004 04:00	26.48	6.77	174.1	15.8	1.27	0.08	1	5
6/30/2004	4:15	6/30/2004 04:15	26.48	6.76	174.7	15.1	1.22	0.08	1	5
6/30/2004	4:30	6/30/2004 04:30	26.47	6.76	174.9	15.5	1.25	0.08	1	5
6/30/2004	4:45	6/30/2004 04:45	26.46	6.76	176.1	15.1	1.22	0.08	1	5
6/30/2004	5:00	6/30/2004 05:00	26.45	6.76	176.6	14.7	1.19	0.08	1	5
6/30/2004	5:15	6/30/2004 05:15	26.44	6.76	176.8	13.8	1.11	0.08	1	5
6/30/2004	5:30	6/30/2004 05:30	26.44	6.76	177.5	13.2	1.06	0.08	1	5
6/30/2004	5:45	6/30/2004 05:45	26.44	6.75	178.2	13.6	1.09	0.08	1	5
6/30/2004	6:00	6/30/2004 06:00	26.44	6.75	178.8	12.6	1.02	0.08	1	5
6/30/2004	6:15	6/30/2004 06:15	26.43	6.75	179.7	12.1	0.98	0.08	1	5
6/30/2004	6:30	6/30/2004 06:30	26.44	6.75	180.7	12.6	1.01	0.08	1	5
6/30/2004	6:45	6/30/2004 06:45	26.44	6.75	181.6	12.4	1	0.08	1	5
6/30/2004	7:00	6/30/2004 07:00	26.46	6.76	183.3	12.3	0.99	0.08	1	5
6/30/2004	7:15	6/30/2004 07:15	26.48	6.76	184.7	11.4	0.92	0.08	1	5
6/30/2004	7:30	6/30/2004 07:30	26.52	6.76	186.9	11.7	0.94	0.08	1	5
6/30/2004	7:45	6/30/2004 07:45	26.54	6.78	188.5	11.4	0.92	0.09	1	5
6/30/2004	8:00	6/30/2004 08:00	26.58	6.77	190.1	11.6	0.93	0.09	1	5
6/30/2004	8:15	6/30/2004 08:15	26.6	6.78	191.7	12	0.96	0.09	1	5
6/30/2004	8:30	6/30/2004 08:30	26.61	6.78	191.7	12.1	0.97	0.09	1	5
6/30/2004	8:45	6/30/2004 08:45	26.62	6.78	192.1	11.6	0.93	0.09	1	5
6/30/2004	9:00	6/30/2004 09:00	26.61	6.79	193.3	11.7	0.94	0.09	1	5
6/30/2004	9:15	6/30/2004 09:15	26.6	6.79	193.8	12.1	0.97	0.09	1	5
6/30/2004	9:30	6/30/2004 09:30	26.67	6.79	193.3	11.9	0.95	0.09	1	5
6/30/2004	9:45	6/30/2004 09:45	26.72	6.79	194.9	13.4	1.07	0.09	1	5
6/30/2004	10:00	6/30/2004 10:00	26.72	6.79	195.6	13.3	1.06	0.09	1	5
6/30/2004	10:15	6/30/2004 10:15	26.7	6.79	196.2	13	1.04	0.09	1	5
6/30/2004	10:30	6/30/2004 10:30	26.77	6.79	196.7	13.9	1.11	0.09	1	5

6/30/2004	10:45	6/30/2004	10:45	26.9	6.79	196.9	15.1	1.21	0.09	1	5
6/30/2004	11:00	6/30/2004	11:00	26.7	6.79	197.6	12.9	1.04	0.09	1	5
6/30/2004	11:15	6/30/2004	11:15	26.72	6.79	197.9	13.2	1.06	0.09	1	5
6/30/2004	11:30	6/30/2004	11:30	26.71	6.78	198.8	13.2	1.06	0.09	1	5
6/30/2004	11:45	6/30/2004	11:45	26.69	6.78	198.9	12.5	1	0.09	1	5
6/30/2004	12:00	6/30/2004	12:00	26.67	6.78	199.1	13.1	1.05	0.09	1	5
6/30/2004	12:15	6/30/2004	12:15	26.76	6.79	199.9	13.1	1.05	0.09	1	5
6/30/2004	12:30	6/30/2004	12:30	27	6.79	199.3	14.9	1.18	0.09	1	5
6/30/2004	12:45	6/30/2004	12:45	26.89	6.79	200	13.4	1.07	0.09	1	5
6/30/2004	13:00	6/30/2004	13:00	26.95	6.79	200	14.5	1.15	0.09	1	5
6/30/2004	13:15	6/30/2004	13:15	26.9	6.78	200	13.7	1.1	0.09	1	5
6/30/2004	13:30	6/30/2004	13:30	26.98	6.79	200	14.2	1.13	0.09	1	5
6/30/2004	13:45	6/30/2004	13:45	27.22	6.79	199.8	16.2	1.28	0.09	1	5
6/30/2004	14:00	6/30/2004	14:00	27.08	6.79	199.9	13.7	1.09	0.09	1	5
6/30/2004	14:15	6/30/2004	14:15	27.19	6.78	200	15.6	1.24	0.09	1	5
6/30/2004	14:30	6/30/2004	14:30	27.26	6.79	200	16	1.27	0.09	1	5
6/30/2004	14:45	6/30/2004	14:45	27.59	6.8	200	21.1	1.66	0.09	1	5
6/30/2004	15:00	6/30/2004	15:00	27.4	6.8	201	18.9	1.49	0.09	1	5
6/30/2004	15:15	6/30/2004	15:15	27.57	6.81	200	20.8	1.64	0.09	1	5
6/30/2004	15:30	6/30/2004	15:30	27.45	6.79	200	19.5	1.54	0.09	1	5
6/30/2004	15:45	6/30/2004	15:45	27.52	6.8	200	20.4	1.61	0.09	1	5
6/30/2004	16:00	6/30/2004	16:00	27.4	6.8	200	19.3	1.53	0.09	1	5
6/30/2004	16:15	6/30/2004	16:15	27.06	6.78	201	14.1	1.12	0.09	1	5
6/30/2004	16:30	6/30/2004	16:30	27.16	6.78	201	15.2	1.21	0.09	1	5
6/30/2004	16:45	6/30/2004	16:45	27.02	6.78	200	12.9	1.03	0.09	1	5
6/30/2004	17:00	6/30/2004	17:00	27.09	6.79	200	14	1.11	0.09	1	5
6/30/2004	17:15	6/30/2004	17:15	26.95	6.77	200	11.3	0.9	0.09	1	5
6/30/2004	17:30	6/30/2004	17:30	27.22	6.78	200	13.7	1.08	0.09	1	5
6/30/2004	17:45	6/30/2004	17:45	26.93	6.77	200	11.4	0.91	0.09	1	5
6/30/2004	18:00	6/30/2004	18:00	27.07	6.77	199.7	12.5	0.99	0.09	1	5
6/30/2004	18:15	6/30/2004	18:15	27.18	6.79	199.6	14.2	1.13	0.09	1	5
6/30/2004	18:30	6/30/2004	18:30	27.29	6.79	199.7	16.1	1.27	0.09	1	5
6/30/2004	18:45	6/30/2004	18:45	27.37	6.78	197.9	16.2	1.28	0.09	1	5

6/30/2004	19:00	6/30/2004 19:00	27.43	6.8	199	18.1	1.43	0.09	1	5
6/30/2004	19:15	6/30/2004 19:15	27.58	6.81	198.8	20.5	1.62	0.09	1	5
6/30/2004	19:30	6/30/2004 19:30	27.31	6.78	198.8	14.3	1.13	0.09	1	5
6/30/2004	19:45	6/30/2004 19:45	27.2	6.78	197.7	13.3	1.05	0.09	1	5
6/30/2004	20:00	6/30/2004 20:00	27.42	6.8	197.5	16.7	1.32	0.09	1	5
6/30/2004	20:15	6/30/2004 20:15	27.51	6.8	198.6	17.7	1.4	0.09	1	5
6/30/2004	20:30	6/30/2004 20:30	27.87	6.84	198.3	26.7	2.09	0.09	1	5
6/30/2004	20:45	6/30/2004 20:45	27.91	6.83	197.7	26.6	2.09	0.09	1	5
6/30/2004	21:00	6/30/2004 21:00	28.04	6.85	198.6	31.3	2.45	0.09	1	5
6/30/2004	21:15	6/30/2004 21:15	27.98	6.84	198.2	27.9	2.18	0.09	1	5
6/30/2004	21:30	6/30/2004 21:30	27.89	6.84	198.1	26.3	2.06	0.09	1	5
6/30/2004	21:45	6/30/2004 21:45	27.9	6.85	198.1	27.1	2.12	0.09	1	5
6/30/2004	22:00	6/30/2004 22:00	27.87	6.84	198.3	28.2	2.21	0.09	1	5
6/30/2004	22:15	6/30/2004 22:15	27.66	6.83	197.5	22	1.73	0.09	1	5
6/30/2004	22:30	6/30/2004 22:30	27.74	6.84	197.9	24.8	1.95	0.09	1	5
6/30/2004	22:45	6/30/2004 22:45	27.79	6.85	198.4	27.9	2.19	0.09	1	5
6/30/2004	23:00	6/30/2004 23:00	27.76	6.84	197.9	25.3	1.99	0.09	1	5
6/30/2004	23:15	6/30/2004 23:15	27.83	6.84	196.9	27	2.11	0.09	1	5
6/30/2004	23:30	6/30/2004 23:30	27.81	6.85	197.8	28.3	2.22	0.09	1	5
6/30/2004	23:45	6/30/2004 23:45	27.83	6.86	198.1	30.7	2.41	0.09	1	5
7/1/2004	0:00	7/1/2004 00:00	27.78	6.86	198.1	28.1	2.21	0.09	1	5
7/1/2004	0:15	7/1/2004 00:15	27.85	6.86	197.8	31	2.43	0.09	1	5
7/1/2004	0:30	7/1/2004 00:30	27.82	6.87	197.7	31.1	2.44	0.09	1	5
7/1/2004	0:45	7/1/2004 00:45	27.81	6.87	197.6	30.9	2.43	0.09	1	5
7/1/2004	1:00	7/1/2004 01:00	27.76	6.87	197.4	29.5	2.32	0.09	1	5
7/1/2004	1:15	7/1/2004 01:15	27.68	6.86	197.1	28	2.2	0.09	1	5
7/1/2004	1:30	7/1/2004 01:30	27.66	6.86	196.9	27.8	2.19	0.09	1	5
7/1/2004	1:45	7/1/2004 01:45	27.58	6.85	196.7	25.9	2.04	0.09	1	5
7/1/2004	2:00	7/1/2004 02:00	27.58	6.86	196.8	27.9	2.2	0.09	1	5
7/1/2004	2:15	7/1/2004 02:15	27.56	6.86	196.2	28.3	2.23	0.09	1	5
7/1/2004	2:30	7/1/2004 02:30	27.5	6.85	196.3	26.8	2.12	0.09	1	5
7/1/2004	2:45	7/1/2004 02:45	27.49	6.86	196.1	27.5	2.17	0.09	1	5
7/1/2004	3:00	7/1/2004 03:00	27.46	6.86	195.5	26.2	2.07	0.09	1	5

7/1/2004	3:15	7/1/2004 03:15	27.39	6.84	195	24.3	1.92	0.09	1	5
7/1/2004	3:30	7/1/2004 03:30	27.34	6.85	195.6	23.7	1.87	0.09	1	5
7/1/2004	3:45	7/1/2004 03:45	27.33	6.85	195.5	24.5	1.94	0.09	1	5
7/1/2004	4:00	7/1/2004 04:00	27.3	6.85	195.3	23.3	1.85	0.09	1	5
7/1/2004	4:15	7/1/2004 04:15	27.26	6.85	195.4	22.6	1.79	0.09	1	5
7/1/2004	4:30	7/1/2004 04:30	27.22	6.85	195.4	22.3	1.77	0.09	1	5
7/1/2004	4:45	7/1/2004 04:45	27.18	6.84	195	19.9	1.58	0.09	1	5
7/1/2004	5:00	7/1/2004 05:00	27.16	6.84	195.1	20.4	1.62	0.09	1	5
7/1/2004	5:15	7/1/2004 05:15	27.13	6.83	195.4	20.2	1.61	0.09	1	5
7/1/2004	5:30	7/1/2004 05:30	27.09	6.83	195.1	18.8	1.5	0.09	1	5
7/1/2004	5:45	7/1/2004 05:45	27.07	6.83	195.3	19.3	1.54	0.09	1	5
7/1/2004	6:00	7/1/2004 06:00	27.04	6.84	195.4	19.3	1.54	0.09	1	5
7/1/2004	6:15	7/1/2004 06:15	27.03	6.83	195.4	18.9	1.51	0.09	1	5
7/1/2004	6:30	7/1/2004 06:30	26.96	6.82	195	15.8	1.26	0.09	1	5
7/1/2004	6:45	7/1/2004 06:45	26.98	6.82	195.7	17.1	1.37	0.09	1	5
7/1/2004	7:00	7/1/2004 07:00	26.97	6.82	195.7	17.1	1.36	0.09	1	5
7/1/2004	7:15	7/1/2004 07:15	26.97	6.82	196.4	16.4	1.31	0.09	1	5
7/1/2004	7:30	7/1/2004 07:30	26.99	6.82	197	17.2	1.37	0.09	1	5
7/1/2004	7:45	7/1/2004 07:45	26.98	6.82	196.7	15.9	1.27	0.09	1	5
7/1/2004	8:00	7/1/2004 08:00	27.01	6.82	197.4	16.7	1.33	0.09	1	5
7/1/2004	8:15	7/1/2004 08:15	27.01	6.82	197.8	16.3	1.29	0.09	1	5
7/1/2004	8:30	7/1/2004 08:30	27.01	6.82	197.8	15.9	1.27	0.09	1	5
7/1/2004	8:45	7/1/2004 08:45	27.03	6.82	197.5	16	1.27	0.09	1	5
7/1/2004	9:00	7/1/2004 09:00	27.07	6.82	198.1	16.1	1.28	0.09	1	5
7/1/2004	9:15	7/1/2004 09:15	27.1	6.82	198.7	15.8	1.26	0.09	1	5
7/1/2004	9:30	7/1/2004 09:30	27.12	6.82	199	16	1.27	0.09	1	5
7/1/2004	9:45	7/1/2004 09:45	27.11	6.82	199.8	15.7	1.25	0.09	1	5
7/1/2004	10:00	7/1/2004 10:00	27.09	6.82	198.8	14.4	1.14	0.09	1	5
7/1/2004	10:15	7/1/2004 10:15	27.15	6.82	199.8	15.8	1.25	0.09	1	5
7/1/2004	10:30	7/1/2004 10:30	27.18	6.83	199.2	15.9	1.26	0.09	1	5
7/1/2004	10:45	7/1/2004 10:45	27.17	6.82	199.5	15	1.19	0.09	1	5
7/1/2004	11:00	7/1/2004 11:00	27.2	6.82	199.9	14.9	1.18	0.09	1	5
7/1/2004	11:15	7/1/2004 11:15	27.21	6.82	200	15.1	1.2	0.09	1	5

7/1/2004	11:30	7/1/2004	11:30	27.3	6.82	200	16.2	1.29	0.09	1	5
7/1/2004	11:45	7/1/2004	11:45	27.29	6.82	199.8	15.1	1.2	0.09	1	5
7/1/2004	12:00	7/1/2004	12:00	27.39	6.83	200	16.9	1.33	0.09	1	5
7/1/2004	12:15	7/1/2004	12:15	27.27	6.82	200	14.5	1.15	0.09	1	5
7/1/2004	12:30	7/1/2004	12:30	27.32	6.82	200	14.4	1.14	0.09	1	5
7/1/2004	12:45	7/1/2004	12:45	27.31	6.82	200	13.8	1.09	0.09	1	5
7/1/2004	13:00	7/1/2004	13:00	27.34	6.82	200	14.1	1.11	0.09	1	5
7/1/2004	13:15	7/1/2004	13:15	27.38	6.82	200	14.5	1.14	0.09	1	5
7/1/2004	13:30	7/1/2004	13:30	27.39	6.82	200	14.1	1.11	0.09	1	5
7/1/2004	13:45	7/1/2004	13:45	27.47	6.82	201	14.9	1.18	0.09	1	5
7/1/2004	14:00	7/1/2004	14:00	27.34	6.82	201	12	0.95	0.09	1	5
7/1/2004	14:15	7/1/2004	14:15	27.46	6.82	200	13.9	1.1	0.09	1	5
7/1/2004	14:30	7/1/2004	14:30	27.46	6.82	201	13.5	1.07	0.09	1	5
7/1/2004	14:45	7/1/2004	14:45	28.02	6.85	200	21.5	1.68	0.09	1	5
7/1/2004	15:00	7/1/2004	15:00	27.72	6.83	200	16.8	1.32	0.09	1	5
7/1/2004	15:15	7/1/2004	15:15	27.42	6.81	201	11.3	0.89	0.09	1	5
7/1/2004	15:30	7/1/2004	15:30	27.86	6.84	200	18.3	1.44	0.09	1	5
7/1/2004	15:45	7/1/2004	15:45	27.63	6.83	201	14.9	1.18	0.09	1	5
7/1/2004	16:00	7/1/2004	16:00	27.51	6.82	201	12	0.94	0.09	1	5
7/1/2004	16:15	7/1/2004	16:15	28	6.84	201	19.4	1.52	0.09	1	5
7/1/2004	16:30	7/1/2004	16:30	28.53	6.89	200	24.7	1.92	0.09	1	5
7/1/2004	16:45	7/1/2004	16:45	28.32	6.86	202	23.3	1.81	0.09	1	5
7/1/2004	17:00	7/1/2004	17:00	28.2	6.85	202	22.3	1.73	0.09	1	5
7/1/2004	17:15	7/1/2004	17:15	28.81	6.89	201	34.2	2.63	0.09	1	5
7/1/2004	17:30	7/1/2004	17:30	28.8	6.88	201	32.5	2.51	0.09	1	5
7/1/2004	17:45	7/1/2004	17:45	28.83	6.9	201	35.3	2.72	0.09	1	5
7/1/2004	18:00	7/1/2004	18:00	28.93	6.91	201	39.1	3.01	0.09	1	5
7/1/2004	18:15	7/1/2004	18:15	28.88	6.91	201	40.1	3.09	0.09	1	5
7/1/2004	18:30	7/1/2004	18:30	28.64	6.9	203	36.9	2.85	0.09	1	5
7/1/2004	18:45	7/1/2004	18:45	28.86	6.93	202	43.7	3.36	0.09	1	5
7/1/2004	19:00	7/1/2004	19:00	28.54	6.88	204	32.2	2.5	0.09	1	5
7/1/2004	19:15	7/1/2004	19:15	28.51	6.88	205	32.5	2.52	0.09	1	5
7/1/2004	19:30	7/1/2004	19:30	28.51	6.88	206	32.8	2.54	0.09	1	5

7/1/2004	19:45	7/1/2004	19:45	28.66	6.92	204	40.7	3.15	0.09	1	5
7/1/2004	20:00	7/1/2004	20:00	28.75	6.93	205	45.5	3.51	0.09	1	5
7/1/2004	20:15	7/1/2004	20:15	28.69	6.93	206	44.2	3.41	0.09	1	5
7/1/2004	20:30	7/1/2004	20:30	28.56	6.92	207	38.8	3.01	0.1	1	5
7/1/2004	20:45	7/1/2004	20:45	28.63	6.93	207	43.7	3.38	0.1	1	5
7/1/2004	21:00	7/1/2004	21:00	28.58	6.93	207	43.4	3.36	0.1	1	5
7/1/2004	21:15	7/1/2004	21:15	28.59	6.94	208	46.5	3.6	0.1	1	5
7/1/2004	21:30	7/1/2004	21:30	28.54	6.94	209	44.4	3.44	0.1	1	5
7/1/2004	21:45	7/1/2004	21:45	28.47	6.94	208	44.1	3.42	0.1	1	5
7/1/2004	22:00	7/1/2004	22:00	28.45	6.93	209	43.2	3.35	0.1	1	5
7/1/2004	22:15	7/1/2004	22:15	28.38	6.92	209	42.3	3.29	0.1	1	5
7/1/2004	22:30	7/1/2004	22:30	28.35	6.91	209	40.7	3.16	0.1	1	5
7/1/2004	22:45	7/1/2004	22:45	28.3	6.91	208	38.5	2.99	0.1	1	5
7/1/2004	23:00	7/1/2004	23:00	28.25	6.9	209	36.8	2.87	0.1	1	5
7/1/2004	23:15	7/1/2004	23:15	28.17	6.9	209	33.5	2.62	0.1	1	5
7/1/2004	23:30	7/1/2004	23:30	28.08	6.89	209	32.1	2.51	0.1	1	5
7/1/2004	23:45	7/1/2004	23:45	28.01	6.88	209	29.8	2.33	0.1	1	5
7/2/2004	0:00	7/2/2004	00:00	27.93	6.88	209	28.6	2.24	0.1	1	5
7/2/2004	0:15	7/2/2004	00:15	27.89	6.88	209	26.5	2.08	0.1	1	5
7/2/2004	0:30	7/2/2004	00:30	27.83	6.87	209	26.4	2.07	0.1	1	5
7/2/2004	0:45	7/2/2004	00:45	27.74	6.87	210	24.1	1.89	0.1	1	5
7/2/2004	1:00	7/2/2004	01:00	27.69	6.86	210	23.2	1.82	0.1	1	5
7/2/2004	1:15	7/2/2004	01:15	27.65	6.87	210	21.9	1.72	0.1	1	5
7/2/2004	1:30	7/2/2004	01:30	27.61	6.86	210	20	1.58	0.1	1	5
7/2/2004	1:45	7/2/2004	01:45	27.57	6.86	210	19.1	1.51	0.1	1	5
7/2/2004	2:00	7/2/2004	02:00	27.55	6.85	210	17.8	1.41	0.1	1	5
7/2/2004	2:15	7/2/2004	02:15	27.55	6.85	211	17.7	1.39	0.1	1	5
7/2/2004	2:30	7/2/2004	02:30	27.56	6.86	211	17.4	1.37	0.1	1	5
7/2/2004	2:45	7/2/2004	02:45	27.57	6.85	211	16.6	1.3	0.1	1	5
7/2/2004	3:00	7/2/2004	03:00	27.6	6.85	211	17.7	1.39	0.1	1	5
7/2/2004	3:15	7/2/2004	03:15	27.61	6.86	212	18.2	1.43	0.1	1	5
7/2/2004	3:30	7/2/2004	03:30	27.64	6.86	212	18.6	1.46	0.1	1	5
7/2/2004	3:45	7/2/2004	03:45	27.65	6.86	212	18.6	1.47	0.1	1	5

7/2/2004	4:00	7/2/2004 04:00	27.68	6.86	213	18.5	1.45	0.1	1	5
7/2/2004	4:15	7/2/2004 04:15	27.7	6.87	213	19.5	1.53	0.1	1	5
7/2/2004	4:30	7/2/2004 04:30	27.7	6.87	214	19.3	1.52	0.1	1	5
7/2/2004	4:45	7/2/2004 04:45	27.69	6.86	214	18.5	1.45	0.1	1	5
7/2/2004	5:00	7/2/2004 05:00	27.67	6.87	214	18.4	1.45	0.1	1	5
7/2/2004	5:15	7/2/2004 05:15	27.64	6.87	214	18.2	1.43	0.1	1	5
7/2/2004	5:30	7/2/2004 05:30	27.63	6.86	214	17.2	1.35	0.1	1	5
7/2/2004	5:45	7/2/2004 05:45	27.62	6.86	214	17.4	1.37	0.1	1	5
7/2/2004	6:00	7/2/2004 06:00	27.61	6.86	215	16.4	1.29	0.1	1	5
7/2/2004	6:15	7/2/2004 06:15	27.6	6.86	215	16.6	1.3	0.1	1	5
7/2/2004	6:30	7/2/2004 06:30	27.58	6.86	215	15.4	1.22	0.1	1	5
7/2/2004	6:45	7/2/2004 06:45	27.56	6.86	215	14.8	1.16	0.1	1	5
7/2/2004	7:00	7/2/2004 07:00	27.54	6.85	215	14.4	1.13	0.1	1	5
7/2/2004	7:15	7/2/2004 07:15	27.54	6.85	215	13.8	1.09	0.1	1	5
7/2/2004	7:30	7/2/2004 07:30	27.52	6.85	214	13.2	1.04	0.1	1	5
7/2/2004	7:45	7/2/2004 07:45	27.51	6.85	215	13.5	1.06	0.1	1	5
7/2/2004	8:00	7/2/2004 08:00	27.5	6.85	214	12.4	0.98	0.1	1	5
7/2/2004	8:15	7/2/2004 08:15	27.49	6.85	214	12.1	0.96	0.1	1	5
7/2/2004	8:30	7/2/2004 08:30	27.48	6.85	214	11.9	0.94	0.1	1	5
7/2/2004	8:45	7/2/2004 08:45	27.47	6.84	215	12.6	0.99	0.1	1	5
7/2/2004	9:00	7/2/2004 09:00	27.46	6.84	215	11.5	0.91	0.1	1	5
7/2/2004	9:15	7/2/2004 09:15	27.45	6.84	215	11.8	0.93	0.1	1	5
7/2/2004	9:30	7/2/2004 09:30	27.41	6.84	215	11.8	0.93	0.1	1	5
7/2/2004	9:45	7/2/2004 09:45	27.42	6.84	215	11.6	0.91	0.1	1	5
7/2/2004	10:00	7/2/2004 10:00	27.47	6.84	215	11	0.87	0.1	1	5
7/2/2004	10:15	7/2/2004 10:15	27.52	6.84	215	11.9	0.94	0.1	1	5
7/2/2004	10:30	7/2/2004 10:30	27.42	6.84	215	11.1	0.87	0.1	1	5
7/2/2004	10:45	7/2/2004 10:45	27.33	6.84	214	10.3	0.82	0.1	1	5
7/2/2004	11:00	7/2/2004 11:00	27.57	6.84	215	13.2	1.04	0.1	1	5
7/2/2004	11:15	7/2/2004 11:15	27.55	6.83	216	13	1.02	0.1	1	5
7/2/2004	11:30	7/2/2004 11:30	27.49	6.84	216	12.4	0.98	0.1	1	5
7/2/2004	11:45	7/2/2004 11:45	27.56	6.84	217	13.1	1.03	0.1	1	5
7/2/2004	12:00	7/2/2004 12:00	27.55	6.86	218	14.9	1.18	0.1	1	5

7/2/2004	12:15	7/2/2004	12:15	27.61	6.87	219	17.6	1.39	0.1	1	5
7/2/2004	12:30	7/2/2004	12:30	27.5	6.87	220	17.2	1.36	0.1	1	5
7/2/2004	12:45	7/2/2004	12:45	27.42	6.87	220	15.8	1.25	0.1	1	5
7/2/2004	13:00	7/2/2004	13:00	27.46	6.88	220	19.6	1.55	0.1	1	5
7/2/2004	13:15	7/2/2004	13:15	27.42	6.87	221	17.5	1.38	0.1	1	5
7/2/2004	13:30	7/2/2004	13:30	27.38	6.86	221	15	1.19	0.1	1	5
7/2/2004	13:45	7/2/2004	13:45	27.36	6.86	221	14.9	1.18	0.1	1	5
7/2/2004	14:00	7/2/2004	14:00	27.44	6.88	221	18.6	1.47	0.1	1	5
7/2/2004	14:15	7/2/2004	14:15	27.45	6.89	221	21.9	1.73	0.1	1	5
7/2/2004	14:30	7/2/2004	14:30	27.39	6.89	221	20.8	1.64	0.1	1	5
7/2/2004	14:45	7/2/2004	14:45	27.45	6.9	221	22.6	1.79	0.1	1	5
7/2/2004	15:00	7/2/2004	15:00	27.44	6.89	220	21.5	1.7	0.1	1	5
7/2/2004	15:15	7/2/2004	15:15	27.47	6.9	220	21.3	1.68	0.1	1	5
7/2/2004	15:30	7/2/2004	15:30	27.43	6.89	220	19.5	1.54	0.1	1	5
7/2/2004	15:45	7/2/2004	15:45	27.47	6.9	220	21.4	1.69	0.1	1	5
7/2/2004	16:00	7/2/2004	16:00	27.5	6.9	220	19	1.5	0.1	1	5
7/2/2004	16:15	7/2/2004	16:15	27.52	6.9	220	19.1	1.5	0.1	1	5
7/2/2004	16:30	7/2/2004	16:30	27.58	6.9	221	20.6	1.62	0.1	1	5
7/2/2004	16:45	7/2/2004	16:45	27.55	6.9	221	19.7	1.55	0.1	1	5
7/2/2004	17:00	7/2/2004	17:00	27.41	6.91	221	20.3	1.6	0.1	1	5
7/2/2004	17:15	7/2/2004	17:15	27.4	6.9	221	18.8	1.49	0.1	1	5
7/2/2004	17:30	7/2/2004	17:30	27.41	6.9	221	18.5	1.46	0.1	1	5
7/2/2004	17:45	7/2/2004	17:45	27.48	6.91	221	20.8	1.64	0.1	1	5
7/2/2004	18:00	7/2/2004	18:00	27.41	6.9	221	18.3	1.45	0.1	1	5
7/2/2004	18:15	7/2/2004	18:15	27.32	6.91	221	17.4	1.38	0.1	1	5
7/2/2004	18:30	7/2/2004	18:30	27.49	6.92	221	22.1	1.75	0.1	1	5
7/2/2004	18:45	7/2/2004	18:45	27.39	6.92	221	19.8	1.56	0.1	1	5
7/2/2004	19:00	7/2/2004	19:00	27.32	6.91	220	19.2	1.52	0.1	1	5
7/2/2004	19:15	7/2/2004	19:15	27.29	6.92	220	19.1	1.52	0.1	1	5
7/2/2004	19:30	7/2/2004	19:30	27.25	6.91	219	19.7	1.56	0.1	1	5
7/2/2004	19:45	7/2/2004	19:45	27.28	6.91	218	20.4	1.61	0.1	1	5
7/2/2004	20:00	7/2/2004	20:00	27.29	6.92	218	21.7	1.71	0.1	1	5
7/2/2004	20:15	7/2/2004	20:15	27.35	6.93	217	26.2	2.07	0.1	1	5

7/2/2004	20:30	7/2/2004	20:30	27.45	6.95	216	30.4	2.4	0.1	1	5
7/2/2004	20:45	7/2/2004	20:45	27.42	6.95	215	30.7	2.43	0.1	1	5
7/2/2004	21:00	7/2/2004	21:00	27.39	6.95	213	31	2.45	0.1	1	5
7/2/2004	21:15	7/2/2004	21:15	27.33	6.94	212	29.9	2.37	0.1	1	5
7/2/2004	21:30	7/2/2004	21:30	27.31	6.95	210	30.5	2.42	0.1	1	5
7/2/2004	21:45	7/2/2004	21:45	27.24	6.94	207	29.9	2.37	0.1	1	5
7/2/2004	22:00	7/2/2004	22:00	27.19	6.94	206	29.4	2.33	0.09	1	5
7/2/2004	22:15	7/2/2004	22:15	27.14	6.94	204	30	2.38	0.09	1	5
7/2/2004	22:30	7/2/2004	22:30	27.08	6.94	203	30.1	2.39	0.09	1	5
7/2/2004	22:45	7/2/2004	22:45	27.06	6.93	203	28.3	2.25	0.09	1	5
7/2/2004	23:00	7/2/2004	23:00	26.98	6.93	198.4	27.1	2.16	0.09	1	5
7/2/2004	23:15	7/2/2004	23:15	26.96	6.91	199.1	26.8	2.13	0.09	1	5
7/2/2004	23:30	7/2/2004	23:30	26.93	6.91	197.6	25.5	2.03	0.09	1	5
7/2/2004	23:45	7/2/2004	23:45	26.91	6.91	199.2	25.6	2.04	0.09	1	5
7/3/2004	0:00	7/3/2004	00:00	26.84	6.9	191.9	25.6	2.05	0.09	1	5
7/3/2004	0:15	7/3/2004	00:15	26.78	6.89	185.4	26.3	2.1	0.08	1	5
7/3/2004	0:30	7/3/2004	00:30	26.73	6.89	181.5	26.5	2.12	0.08	1	5
7/3/2004	0:45	7/3/2004	00:45	26.69	6.89	179.7	26.5	2.13	0.08	1	5
7/3/2004	1:00	7/3/2004	01:00	26.65	6.88	177.3	26.3	2.11	0.08	1	5
7/3/2004	1:15	7/3/2004	01:15	26.62	6.88	175	25.9	2.08	0.08	1	5
7/3/2004	1:30	7/3/2004	01:30	26.57	6.87	172.5	26.5	2.12	0.08	1	5
7/3/2004	1:45	7/3/2004	01:45	26.54	6.87	170.4	25.8	2.07	0.08	1	5
7/3/2004	2:00	7/3/2004	02:00	26.49	6.87	167.7	25.8	2.08	0.07	1	5
7/3/2004	2:15	7/3/2004	02:15	26.44	6.86	164.6	25.6	2.06	0.07	1	5
7/3/2004	2:30	7/3/2004	02:30	26.42	6.86	162.8	25.8	2.07	0.07	1	5
7/3/2004	2:45	7/3/2004	02:45	26.4	6.85	160.2	25.3	2.03	0.07	1	5
7/3/2004	3:00	7/3/2004	03:00	26.37	6.86	159.4	24.9	2.01	0.07	1	5
7/3/2004	3:15	7/3/2004	03:15	26.36	6.85	157.6	25.1	2.02	0.07	1	5
7/3/2004	3:30	7/3/2004	03:30	26.32	6.84	156	24.9	2	0.07	1	5
7/3/2004	3:45	7/3/2004	03:45	26.29	6.84	152.7	24.4	1.97	0.07	1	5
7/3/2004	4:00	7/3/2004	04:00	26.27	6.83	150.3	24.3	1.96	0.07	1	5
7/3/2004	4:15	7/3/2004	04:15	26.24	6.83	146.5	27.2	2.2	0.06	1	5
7/3/2004	4:30	7/3/2004	04:30	26.23	6.83	144.7	27.3	2.21	0.06	1	5

7/3/2004	4:45	7/3/2004 04:45	26.21	6.83	142.5	27.9	2.25	0.06	1	5
7/3/2004	5:00	7/3/2004 05:00	26.19	6.83	141.4	28	2.26	0.06	1	5
7/3/2004	5:15	7/3/2004 05:15	26.18	6.82	140.2	27.1	2.19	0.06	1	5
7/3/2004	5:30	7/3/2004 05:30	26.16	6.82	137.2	27.6	2.23	0.06	1	5
7/3/2004	5:45	7/3/2004 05:45	26.14	6.83	135.4	27.3	2.21	0.06	1	5
7/3/2004	6:00	7/3/2004 06:00	26.13	6.81	135.2	27.3	2.21	0.06	1	5
7/3/2004	6:15	7/3/2004 06:15	26.1	6.81	132	27.8	2.25	0.06	1	5
7/3/2004	6:30	7/3/2004 06:30	26.08	6.81	131.4	28.1	2.27	0.05	1	5
7/3/2004	6:45	7/3/2004 06:45	26.07	6.81	130.4	27	2.19	0.05	1	5
7/3/2004	7:00	7/3/2004 07:00	26.05	6.81	129.9	26.8	2.17	0.05	1	5
7/3/2004	7:15	7/3/2004 07:15	26.03	6.8	128.4	26.7	2.16	0.05	1	5
7/3/2004	7:30	7/3/2004 07:30	26.02	6.81	127	26.6	2.16	0.05	1	5
7/3/2004	7:45	7/3/2004 07:45	26	6.79	125.2	26.8	2.18	0.05	1	5
7/3/2004	8:00	7/3/2004 08:00	25.99	6.79	123.6	26.5	2.15	0.05	1	5
7/3/2004	8:15	7/3/2004 08:15	26	6.79	123.1	26.4	2.14	0.05	1	5
7/3/2004	8:30	7/3/2004 08:30	25.98	6.79	121.5	26.4	2.14	0.05	1	5
7/3/2004	8:45	7/3/2004 08:45	25.98	6.78	120	26.6	2.16	0.05	1	5
7/3/2004	9:00	7/3/2004 09:00	25.98	6.78	119.6	25.4	2.06	0.05	1	5
7/3/2004	9:15	7/3/2004 09:15	26.05	6.79	118.3	26.4	2.14	0.05	1	5
7/3/2004	9:30	7/3/2004 09:30	26.04	6.78	117.4	25.4	2.06	0.05	1	5
7/3/2004	9:45	7/3/2004 09:45	26.06	6.77	116.1	25.4	2.06	0.05	1	5
7/3/2004	10:00	7/3/2004 10:00	26.01	6.78	115.2	25.9	2.1	0.05	1	5
7/3/2004	10:15	7/3/2004 10:15	26.07	6.77	116	24.4	1.98	0.05	1	5
7/3/2004	10:30	7/3/2004 10:30	25.98	6.77	115	23.9	1.94	0.05	1	5
7/3/2004	10:45	7/3/2004 10:45	25.95	6.77	113.6	23.6	1.92	0.05	1	5
7/3/2004	11:00	7/3/2004 11:00	26.05	6.77	113.8	24.3	1.97	0.05	1	5
7/3/2004	11:15	7/3/2004 11:15	26.08	6.77	112.1	24.6	2	0.04	1	5
7/3/2004	11:30	7/3/2004 11:30	26.04	6.76	111.2	24.7	2	0.04	1	5
7/3/2004	11:45	7/3/2004 11:45	26.11	6.77	111.4	24.4	1.97	0.04	1	5
7/3/2004	12:00	7/3/2004 12:00	26.12	6.77	111.1	24	1.94	0.04	1	5
7/3/2004	12:15	7/3/2004 12:15	26.05	6.77	110.5	23.7	1.92	0.04	1	5
7/3/2004	12:30	7/3/2004 12:30	26.12	6.76	110.5	23.2	1.88	0.04	1	5
7/3/2004	12:45	7/3/2004 12:45	25.99	6.77	110.2	22.5	1.82	0.04	1	5

7/3/2004	13:00	7/3/2004	13:00	26.08	6.76	110.3	22.1	1.79	0.04	1	5
7/3/2004	13:15	7/3/2004	13:15	26.12	6.76	109.9	22.5	1.82	0.04	1	5
7/3/2004	13:30	7/3/2004	13:30	26.28	6.75	110.3	21.8	1.76	0.04	1	5
7/3/2004	13:45	7/3/2004	13:45	26.34	6.76	110.3	23	1.85	0.04	1	5
7/3/2004	14:00	7/3/2004	14:00	26.28	6.76	110.5	22.2	1.79	0.04	1	5
7/3/2004	14:15	7/3/2004	14:15	26.61	6.77	110.7	23.1	1.85	0.04	1	5
7/3/2004	14:30	7/3/2004	14:30	27.14	6.81	110.4	31	2.46	0.04	1	5
7/3/2004	14:45	7/3/2004	14:45	27.28	6.84	110	38.1	3.02	0.04	1	5
7/3/2004	15:00	7/3/2004	15:00	27.38	6.85	110.4	41.9	3.32	0.04	1	5
7/3/2004	15:15	7/3/2004	15:15	27.32	6.85	110.8	39.3	3.11	0.04	1	5
7/3/2004	15:30	7/3/2004	15:30	26.99	6.82	110.7	34.1	2.72	0.04	1	5
7/3/2004	15:45	7/3/2004	15:45	27.06	6.83	110.9	34.1	2.71	0.04	1	5
7/3/2004	16:00	7/3/2004	16:00	27.11	6.82	110.8	34.8	2.77	0.04	1	5
7/3/2004	16:15	7/3/2004	16:15	27.38	6.8	112.3	30.5	2.41	0.04	1	5
7/3/2004	16:30	7/3/2004	16:30	27.63	6.84	112.6	37	2.91	0.04	1	5
7/3/2004	16:45	7/3/2004	16:45	27.77	6.83	113	37.4	2.94	0.05	1	5
7/3/2004	17:00	7/3/2004	17:00	27.47	6.79	113.4	28.6	2.26	0.05	1	5
7/3/2004	17:15	7/3/2004	17:15	27.45	6.8	113.6	30.8	2.43	0.05	1	5
7/3/2004	17:30	7/3/2004	17:30	27.55	6.8	113.6	32.8	2.59	0.05	1	5
7/3/2004	17:45	7/3/2004	17:45	27.7	6.81	113.7	34.5	2.71	0.05	1	5
7/3/2004	18:00	7/3/2004	18:00	27.7	6.8	114.5	33.8	2.66	0.05	1	5
7/3/2004	18:15	7/3/2004	18:15	27.63	6.8	114.7	31.1	2.45	0.05	1	5
7/3/2004	18:30	7/3/2004	18:30	27.66	6.8	114.2	32.6	2.57	0.05	1	5
7/3/2004	18:45	7/3/2004	18:45	27.64	6.8	114.7	32.5	2.56	0.05	1	5
7/3/2004	19:00	7/3/2004	19:00	27.09	6.77	114.5	23.3	1.85	0.05	1	5
7/3/2004	19:15	7/3/2004	19:15	27.32	6.77	115.2	26.3	2.08	0.05	1	5
7/3/2004	19:30	7/3/2004	19:30	27.29	6.78	115.3	25.9	2.05	0.05	1	5
7/3/2004	19:45	7/3/2004	19:45	27.39	6.77	115.9	27.9	2.21	0.05	1	5
7/3/2004	20:00	7/3/2004	20:00	27.17	6.78	115.9	24.9	1.98	0.05	1	5
7/3/2004	20:15	7/3/2004	20:15	27.22	6.78	115.8	25.6	2.03	0.05	1	5
7/3/2004	20:30	7/3/2004	20:30	27.22	6.76	116.3	25.3	2.01	0.05	1	5
7/3/2004	20:45	7/3/2004	20:45	27.33	6.78	116.6	28	2.21	0.05	1	5
7/3/2004	21:00	7/3/2004	21:00	27.22	6.77	116.2	26.1	2.07	0.05	1	5

7/3/2004	21:15	7/3/2004 21:15	27.07	6.76	116.3	23.9	1.9	0.05	1	5
7/3/2004	21:30	7/3/2004 21:30	27.14	6.78	116.5	26.1	2.07	0.05	1	5
7/3/2004	21:45	7/3/2004 21:45	27.25	6.79	116.5	29.8	2.36	0.05	1	5
7/3/2004	22:00	7/3/2004 22:00	27.22	6.77	116.5	30.3	2.4	0.05	1	5
7/3/2004	22:15	7/3/2004 22:15	27.13	6.79	116.9	27.6	2.19	0.05	1	5
7/3/2004	22:30	7/3/2004 22:30	27.15	6.78	116.8	28.2	2.24	0.05	1	5
7/3/2004	22:45	7/3/2004 22:45	27.03	6.78	117.1	24.7	1.96	0.05	1	5
7/3/2004	23:00	7/3/2004 23:00	27.02	6.77	117.1	24.3	1.93	0.05	1	5
7/3/2004	23:15	7/3/2004 23:15	27.03	6.77	117.3	25.5	2.03	0.05	1	5
7/3/2004	23:30	7/3/2004 23:30	26.96	6.77	117.7	24.7	1.97	0.05	1	5
7/3/2004	23:45	7/3/2004 23:45	26.9	6.76	117.8	23.1	1.85	0.05	1	5
7/4/2004	0:00	7/4/2004 00:00	26.88	6.76	118.3	23.3	1.86	0.05	1	5
7/4/2004	0:15	7/4/2004 00:15	26.84	6.75	118.4	22.2	1.78	0.05	1	5
7/4/2004	0:30	7/4/2004 00:30	26.81	6.76	118.5	22.1	1.76	0.05	1	5
7/4/2004	0:45	7/4/2004 00:45	26.79	6.75	118.2	20.5	1.64	0.05	1	5
7/4/2004	1:00	7/4/2004 01:00	26.76	6.75	118.5	21.3	1.7	0.05	1	5
7/4/2004	1:15	7/4/2004 01:15	26.74	6.75	118.3	20.6	1.64	0.05	1	5
7/4/2004	1:30	7/4/2004 01:30	26.7	6.75	118.6	20.1	1.61	0.05	1	5
7/4/2004	1:45	7/4/2004 01:45	26.68	6.75	118.5	19.5	1.56	0.05	1	5
7/4/2004	2:00	7/4/2004 02:00	26.66	6.74	118.9	18.3	1.47	0.05	1	5
7/4/2004	2:15	7/4/2004 02:15	26.63	6.75	118.8	18.4	1.47	0.05	1	5
7/4/2004	2:30	7/4/2004 02:30	26.6	6.74	118.7	17.6	1.41	0.05	1	5
7/4/2004	2:45	7/4/2004 02:45	26.57	6.74	119.3	17.5	1.4	0.05	1	5
7/4/2004	3:00	7/4/2004 03:00	26.56	6.74	119.3	17.1	1.37	0.05	1	5
7/4/2004	3:15	7/4/2004 03:15	26.55	6.74	119.4	16.9	1.36	0.05	1	5
7/4/2004	3:30	7/4/2004 03:30	26.52	6.74	119.5	16.9	1.36	0.05	1	5
7/4/2004	3:45	7/4/2004 03:45	26.5	6.75	120	17.2	1.38	0.05	1	5
7/4/2004	4:00	7/4/2004 04:00	26.48	6.75	120.4	18.6	1.5	0.05	1	5
7/4/2004	4:15	7/4/2004 04:15	26.47	6.74	120.5	17.7	1.43	0.05	1	5
7/4/2004	4:30	7/4/2004 04:30	26.46	6.75	120.8	17.6	1.41	0.05	1	5
7/4/2004	4:45	7/4/2004 04:45	26.44	6.74	121.3	18.6	1.5	0.05	1	5
7/4/2004	5:00	7/4/2004 05:00	26.44	6.75	121.7	17.7	1.42	0.05	1	5
7/4/2004	5:15	7/4/2004 05:15	26.42	6.74	121.7	17.8	1.43	0.05	1	5

7/4/2004	5:30	7/4/2004 05:30	26.43	6.74	122.2	18.2	1.47	0.05	1	5
7/4/2004	5:45	7/4/2004 05:45	26.43	6.74	122.7	18.5	1.49	0.05	1	5
7/4/2004	6:00	7/4/2004 06:00	26.44	6.74	123	18.1	1.46	0.05	1	5
7/4/2004	6:15	7/4/2004 06:15	26.44	6.74	123.3	17.3	1.39	0.05	1	5
7/4/2004	6:30	7/4/2004 06:30	26.44	6.74	123.9	17.7	1.43	0.05	1	5
7/4/2004	6:45	7/4/2004 06:45	26.45	6.75	124.5	16.8	1.35	0.05	1	5
7/4/2004	7:00	7/4/2004 07:00	26.46	6.73	124.9	16.4	1.32	0.05	1	5
7/4/2004	7:15	7/4/2004 07:15	26.48	6.74	125.7	16.4	1.32	0.05	1	5
7/4/2004	7:30	7/4/2004 07:30	26.51	6.74	126.6	15.6	1.26	0.05	1	5
7/4/2004	7:45	7/4/2004 07:45	26.52	6.74	127	15.5	1.25	0.05	1	5
7/4/2004	8:00	7/4/2004 08:00	26.54	6.74	127.7	15.8	1.27	0.05	1	5
7/4/2004	8:15	7/4/2004 08:15	26.56	6.74	128.1	15.2	1.22	0.05	1	5
7/4/2004	8:30	7/4/2004 08:30	26.59	6.74	128.7	15	1.2	0.05	1	5
7/4/2004	8:45	7/4/2004 08:45	26.64	6.74	129.8	14.7	1.18	0.05	1	5
7/4/2004	9:00	7/4/2004 09:00	26.72	6.74	129.5	14.1	1.13	0.05	1	5
7/4/2004	9:15	7/4/2004 09:15	26.72	6.74	130.5	14.2	1.13	0.05	1	5
7/4/2004	9:30	7/4/2004 09:30	27.01	6.75	131.2	16	1.27	0.05	1	5
7/4/2004	9:45	7/4/2004 09:45	26.82	6.73	131.3	13.9	1.11	0.05	1	5
7/4/2004	10:00	7/4/2004 10:00	26.81	6.74	131.7	13.4	1.07	0.06	1	5
7/4/2004	10:15	7/4/2004 10:15	26.92	6.74	132.6	14.2	1.13	0.06	1	5
7/4/2004	10:30	7/4/2004 10:30	26.83	6.74	132.2	13.6	1.09	0.06	1	5
7/4/2004	10:45	7/4/2004 10:45	26.94	6.74	132.2	12.8	1.02	0.06	1	5
7/4/2004	11:00	7/4/2004 11:00	26.91	6.74	132.3	13.1	1.05	0.06	1	5
7/4/2004	11:15	7/4/2004 11:15	27.03	6.74	134.2	13.3	1.06	0.06	1	5
7/4/2004	11:30	7/4/2004 11:30	26.9	6.73	134.6	13	1.04	0.06	1	5
7/4/2004	11:45	7/4/2004 11:45	26.9	6.74	136.2	13.3	1.06	0.06	1	5
7/4/2004	12:00	7/4/2004 12:00	27.11	6.74	135.9	13.7	1.09	0.06	1	5
7/4/2004	12:15	7/4/2004 12:15	27.21	6.75	138.1	14.6	1.16	0.06	1	5
7/4/2004	12:30	7/4/2004 12:30	27.26	6.75	138.1	13.5	1.07	0.06	1	5
7/4/2004	12:45	7/4/2004 12:45	27.06	6.74	138.7	12.7	1.01	0.06	1	5
7/4/2004	13:00	7/4/2004 13:00	27.05	6.74	139.2	13.5	1.07	0.06	1	5
7/4/2004	13:15	7/4/2004 13:15	26.95	6.75	139.9	11.6	0.93	0.06	1	5
7/4/2004	13:30	7/4/2004 13:30	27.07	6.74	141.8	12.6	1	0.06	1	5

7/4/2004	13:45	7/4/2004	13:45	26.94	6.74	141	11.3	0.9	0.06	1	5
7/4/2004	14:00	7/4/2004	14:00	26.97	6.75	142.3	12	0.96	0.06	1	5
7/4/2004	14:15	7/4/2004	14:15	27.12	6.75	143.8	12.5	1	0.06	1	5
7/4/2004	14:30	7/4/2004	14:30	27.09	6.74	144.6	11.6	0.92	0.06	1	5
7/4/2004	14:45	7/4/2004	14:45	27.09	6.75	143.3	11.2	0.89	0.06	1	5
7/4/2004	15:00	7/4/2004	15:00	27.13	6.76	144.4	11.8	0.94	0.06	1	5
7/4/2004	15:15	7/4/2004	15:15	27.2	6.75	145.2	12	0.95	0.06	1	5
7/4/2004	15:30	7/4/2004	15:30	27.3	6.76	148.4	12.6	1	0.06	1	5
7/4/2004	15:45	7/4/2004	15:45	27.73	6.76	143.1	14.4	1.13	0.06	1	5
7/4/2004	16:00	7/4/2004	16:00	27.5	6.75	146.8	11.9	0.94	0.06	1	5
7/4/2004	16:15	7/4/2004	16:15	27.2	6.75	148	11.1	0.88	0.06	1	5
7/4/2004	16:30	7/4/2004	16:30	27.09	6.75	145.2	9.6	0.76	0.06	1	5
7/4/2004	16:45	7/4/2004	16:45	27.16	6.75	147.5	9.8	0.78	0.06	1	5
7/4/2004	17:00	7/4/2004	17:00	27.1	6.76	145.8	9.7	0.77	0.06	1	5
7/4/2004	17:15	7/4/2004	17:15	26.98	6.75	149	9.7	0.77	0.06	1	5
7/4/2004	17:30	7/4/2004	17:30	27.08	6.75	148	9.2	0.73	0.06	1	5
7/4/2004	17:45	7/4/2004	17:45	27.13	6.76	149.3	10	0.8	0.06	1	5
7/4/2004	18:00	7/4/2004	18:00	28.77	6.78	145.5	18.1	1.4	0.06	1	5
7/4/2004	18:15	7/4/2004	18:15	28.1	6.78	148	14.9	1.17	0.06	1	5
7/4/2004	18:30	7/4/2004	18:30	28.09	6.76	147	13.6	1.06	0.06	1	5
7/4/2004	18:45	7/4/2004	18:45	27.22	6.76	148.5	9.6	0.76	0.06	1	5
7/4/2004	19:00	7/4/2004	19:00	27.37	6.77	148.5	8.7	0.69	0.06	1	5
7/4/2004	19:15	7/4/2004	19:15	28.19	6.78	148.8	15.6	1.22	0.06	1	5
7/4/2004	19:30	7/4/2004	19:30	28.39	6.79	148.7	19	1.48	0.06	1	5
7/4/2004	19:45	7/4/2004	19:45	27.62	6.77	149.5	10.2	0.8	0.06	1	5
7/4/2004	20:00	7/4/2004	20:00	28.39	6.78	148.9	17.7	1.37	0.06	1	5
7/4/2004	20:15	7/4/2004	20:15	28.66	6.8	148.6	19.1	1.48	0.06	1	5
7/4/2004	20:30	7/4/2004	20:30	28.64	6.81	149.1	19.5	1.51	0.06	1	5
7/4/2004	20:45	7/4/2004	20:45	28.88	6.81	148.3	24.8	1.91	0.06	1	5
7/4/2004	21:00	7/4/2004	21:00	28.56	6.79	149.3	18.6	1.44	0.06	1	5
7/4/2004	21:15	7/4/2004	21:15	28.67	6.8	149.3	20.7	1.6	0.06	1	5
7/4/2004	21:30	7/4/2004	21:30	28.75	6.8	149.4	22.1	1.7	0.06	1	5
7/4/2004	21:45	7/4/2004	21:45	28.94	6.82	148.6	23.3	1.79	0.06	1	5

7/4/2004	22:00	7/4/2004 22:00	28.83	6.82	148.8	20.5	1.58	0.06	1	5
7/4/2004	22:15	7/4/2004 22:15	29.02	6.83	148.4	27.9	2.15	0.06	1	5
7/4/2004	22:30	7/4/2004 22:30	29.04	6.84	148.4	29.7	2.28	0.06	1	5
7/4/2004	22:45	7/4/2004 22:45	29	6.84	148.8	29.8	2.29	0.06	1	5
7/4/2004	23:00	7/4/2004 23:00	28.95	6.84	149.1	30.2	2.32	0.06	1	5
7/4/2004	23:15	7/4/2004 23:15	28.95	6.83	148.8	29.6	2.28	0.06	1	5
7/4/2004	23:30	7/4/2004 23:30	28.94	6.84	148.7	29.9	2.3	0.06	1	5
7/4/2004	23:45	7/4/2004 23:45	28.91	6.84	148.9	29.9	2.3	0.06	1	5
7/5/2004	0:00	7/5/2004 00:00	28.87	6.84	148.7	30	2.31	0.06	1	5
7/5/2004	0:15	7/5/2004 00:15	28.83	6.84	149.2	27.6	2.13	0.06	1	5
7/5/2004	0:30	7/5/2004 00:30	28.83	6.84	149.6	30.3	2.34	0.06	1	5
7/5/2004	0:45	7/5/2004 00:45	28.79	6.84	150.1	28.8	2.22	0.06	1	5
7/5/2004	1:00	7/5/2004 01:00	28.76	6.84	150.2	30.3	2.34	0.06	1	5
7/5/2004	1:15	7/5/2004 01:15	28.73	6.83	149.6	27.5	2.12	0.06	1	5
7/5/2004	1:30	7/5/2004 01:30	28.71	6.84	150.3	27.6	2.13	0.07	1	5
7/5/2004	1:45	7/5/2004 01:45	28.67	6.84	149.8	27.6	2.13	0.06	1	5
7/5/2004	2:00	7/5/2004 02:00	28.65	6.84	149.9	27.2	2.1	0.06	1	5
7/5/2004	2:15	7/5/2004 02:15	28.66	6.83	150.4	26.8	2.07	0.07	1	5
7/5/2004	2:30	7/5/2004 02:30	28.66	6.84	150.8	27.1	2.09	0.07	1	5
7/5/2004	2:45	7/5/2004 02:45	28.68	6.84	150.9	27.1	2.09	0.07	1	5
7/5/2004	3:00	7/5/2004 03:00	28.69	6.83	151.3	26.4	2.04	0.07	1	5
7/5/2004	3:15	7/5/2004 03:15	28.72	6.84	151.4	27.6	2.13	0.07	1	5
7/5/2004	3:30	7/5/2004 03:30	28.75	6.84	151.7	27.6	2.13	0.07	1	5
7/5/2004	3:45	7/5/2004 03:45	28.74	6.84	151.7	28.8	2.22	0.07	1	5
7/5/2004	4:00	7/5/2004 04:00	28.79	6.84	151.6	28.7	2.21	0.07	1	5
7/5/2004	4:15	7/5/2004 04:15	28.82	6.84	151.8	29	2.24	0.07	1	5
7/5/2004	4:30	7/5/2004 04:30	28.84	6.85	151.8	29.8	2.3	0.07	1	5
7/5/2004	4:45	7/5/2004 04:45	28.85	6.84	151.8	30.1	2.32	0.07	1	5
7/5/2004	5:00	7/5/2004 05:00	28.86	6.85	152.1	29.2	2.25	0.07	1	5
7/5/2004	5:15	7/5/2004 05:15	28.84	6.85	152.1	29.7	2.29	0.07	1	5
7/5/2004	5:30	7/5/2004 05:30	28.84	6.86	152.2	31.3	2.41	0.07	1	5
7/5/2004	5:45	7/5/2004 05:45	28.83	6.86	152	31.3	2.41	0.07	1	5
7/5/2004	6:00	7/5/2004 06:00	28.83	6.85	152.3	30.4	2.34	0.07	1	5

7/5/2004	6:15	7/5/2004 06:15	28.81	6.85	152.2	30	2.31	0.07	1	5
7/5/2004	6:30	7/5/2004 06:30	28.8	6.85	152.4	30	2.32	0.07	1	5
7/5/2004	6:45	7/5/2004 06:45	28.79	6.85	152.4	29.6	2.29	0.07	1	5
7/5/2004	7:00	7/5/2004 07:00	28.79	6.85	152.4	30.4	2.34	0.07	1	5
7/5/2004	7:15	7/5/2004 07:15	28.79	6.85	152.6	30.9	2.39	0.07	1	5
7/5/2004	7:30	7/5/2004 07:30	28.79	6.86	152.5	30.1	2.32	0.07	1	5
7/5/2004	7:45	7/5/2004 07:45	28.82	6.86	152.7	31	2.39	0.07	1	5
7/5/2004	8:00	7/5/2004 08:00	28.85	6.86	152.6	29.4	2.27	0.07	1	5
7/5/2004	8:15	7/5/2004 08:15	28.87	6.85	152.8	29.4	2.26	0.07	1	5
7/5/2004	8:30	7/5/2004 08:30	28.87	6.86	152.5	30.6	2.36	0.07	1	5
7/5/2004	8:45	7/5/2004 08:45	28.89	6.85	152.8	30.1	2.32	0.07	1	5
7/5/2004	9:00	7/5/2004 09:00	28.87	6.85	153	28.3	2.18	0.07	1	5
7/5/2004	9:15	7/5/2004 09:15	28.87	6.84	153.2	27.2	2.1	0.07	1	5
7/5/2004	9:30	7/5/2004 09:30	28.89	6.84	152.9	27.3	2.1	0.07	1	5
7/5/2004	9:45	7/5/2004 09:45	28.95	6.84	153	28.9	2.22	0.07	1	5
7/5/2004	10:00	7/5/2004 10:00	28.96	6.84	153.2	28.9	2.22	0.07	1	5
7/5/2004	10:15	7/5/2004 10:15	28.96	6.83	153	27.2	2.09	0.07	1	5
7/5/2004	10:30	7/5/2004 10:30	29.03	6.84	153.3	27.8	2.13	0.07	1	5
7/5/2004	10:45	7/5/2004 10:45	28.94	6.84	153.1	26.2	2.01	0.07	1	5
7/5/2004	11:00	7/5/2004 11:00	28.96	6.83	153.6	26.3	2.02	0.07	1	5
7/5/2004	11:15	7/5/2004 11:15	28.96	6.83	153.4	26.6	2.04	0.07	1	5
7/5/2004	11:30	7/5/2004 11:30	29.03	6.83	153.3	27.9	2.14	0.07	1	5
7/5/2004	11:45	7/5/2004 11:45	29.02	6.84	153.2	24.9	1.91	0.07	1	5
7/5/2004	12:00	7/5/2004 12:00	28.9	6.82	153.6	23.8	1.83	0.07	1	5
7/5/2004	12:15	7/5/2004 12:15	29.01	6.83	153.6	25	1.92	0.07	1	5
7/5/2004	12:30	7/5/2004 12:30	28.98	6.83	154	25.4	1.96	0.07	1	5
7/5/2004	12:45	7/5/2004 12:45	28.8	6.82	154	22.6	1.74	0.07	1	5
7/5/2004	13:00	7/5/2004 13:00	29.04	6.83	153.9	26.6	2.04	0.07	1	5
7/5/2004	13:15	7/5/2004 13:15	28.72	6.81	154.2	17.6	1.36	0.07	1	5
7/5/2004	13:30	7/5/2004 13:30	28.64	6.81	154.2	17.8	1.38	0.07	1	5
7/5/2004	13:45	7/5/2004 13:45	28.81	6.82	154.2	20.7	1.6	0.07	1	5
7/5/2004	14:00	7/5/2004 14:00	28.38	6.79	155	15.7	1.22	0.07	1	5
7/5/2004	14:15	7/5/2004 14:15	28.58	6.8	154.7	17.2	1.33	0.07	1	5

7/5/2004	14:30	7/5/2004	14:30	28.17	6.78	155.9	12.7	0.99	0.07	1	5
7/5/2004	14:45	7/5/2004	14:45	28.36	6.79	155.7	14.7	1.14	0.07	1	5
7/5/2004	15:00	7/5/2004	15:00	28.36	6.79	155.1	14.5	1.13	0.07	1	5
7/5/2004	15:15	7/5/2004	15:15	28.37	6.79	156	13.9	1.08	0.07	1	5
7/5/2004	15:30	7/5/2004	15:30	28.36	6.82	155.3	13.5	1.05	0.07	1	5
7/5/2004	15:45	7/5/2004	15:45	28.57	6.8	155.5	15.8	1.22	0.07	1	5
7/5/2004	16:00	7/5/2004	16:00	29.01	6.83	155.1	21.1	1.62	0.07	1	5
7/5/2004	16:15	7/5/2004	16:15	29.76	6.85	154.4	30.5	2.31	0.07	1	5
7/5/2004	16:30	7/5/2004	16:30	30.12	6.88	154.7	38.4	2.9	0.07	1	5
7/5/2004	16:45	7/5/2004	16:45	29.76	6.8	155.1	34	2.58	0.07	1	5
7/5/2004	17:00	7/5/2004	17:00	30.1	6.84	155.9	39.2	2.95	0.07	1	5
7/5/2004	17:15	7/5/2004	17:15	30.57	6.91	155.4	44.7	3.34	0.07	1	5
7/5/2004	17:30	7/5/2004	17:30	30.25	6.88	155.8	38.4	2.89	0.07	1	5
7/5/2004	17:45	7/5/2004	17:45	30.75	6.91	155.4	47.3	3.53	0.07	1	5
7/5/2004	18:00	7/5/2004	18:00	31.06	6.93	155	50.2	3.72	0.07	1	5
7/5/2004	18:15	7/5/2004	18:15	30.71	6.91	155.4	44.8	3.34	0.07	1	5
7/5/2004	18:30	7/5/2004	18:30	31.37	7.03	153.9	65.9	4.86	0.07	1	5
7/5/2004	18:45	7/5/2004	18:45	31.18	7.01	154.2	64.5	4.77	0.07	1	5
7/5/2004	19:00	7/5/2004	19:00	30.97	6.96	155.3	54.9	4.08	0.07	1	5
7/5/2004	19:15	7/5/2004	19:15	30.97	6.94	155.1	54.5	4.05	0.07	1	5
7/5/2004	19:30	7/5/2004	19:30	30.93	6.95	155.2	54.4	4.05	0.07	1	5
7/5/2004	19:45	7/5/2004	19:45	30.92	6.96	155.1	56.6	4.21	0.07	1	5
7/5/2004	20:00	7/5/2004	20:00	30.91	6.97	154.8	57.6	4.28	0.07	1	5
7/5/2004	20:15	7/5/2004	20:15	30.85	6.99	155	60.3	4.49	0.07	1	5
7/5/2004	20:30	7/5/2004	20:30	30.63	6.96	154.1	57.2	4.27	0.07	1	5
7/5/2004	20:45	7/5/2004	20:45	30.38	6.98	153.2	58.1	4.36	0.07	1	5
7/5/2004	21:00	7/5/2004	21:00	30.19	6.97	152.8	57.8	4.35	0.07	1	5
7/5/2004	21:15	7/5/2004	21:15	30.13	6.97	153.3	55.4	4.18	0.07	1	5
7/5/2004	21:30	7/5/2004	21:30	30.07	6.97	153.5	53.6	4.05	0.07	1	5
7/5/2004	21:45	7/5/2004	21:45	30.03	6.96	153.5	51.2	3.86	0.07	1	5
7/5/2004	22:00	7/5/2004	22:00	29.98	6.97	153.1	52.4	3.96	0.07	1	5
7/5/2004	22:15	7/5/2004	22:15	29.94	6.96	153.1	51.7	3.91	0.07	1	5
7/5/2004	22:30	7/5/2004	22:30	29.83	6.95	153	48.4	3.67	0.07	1	5

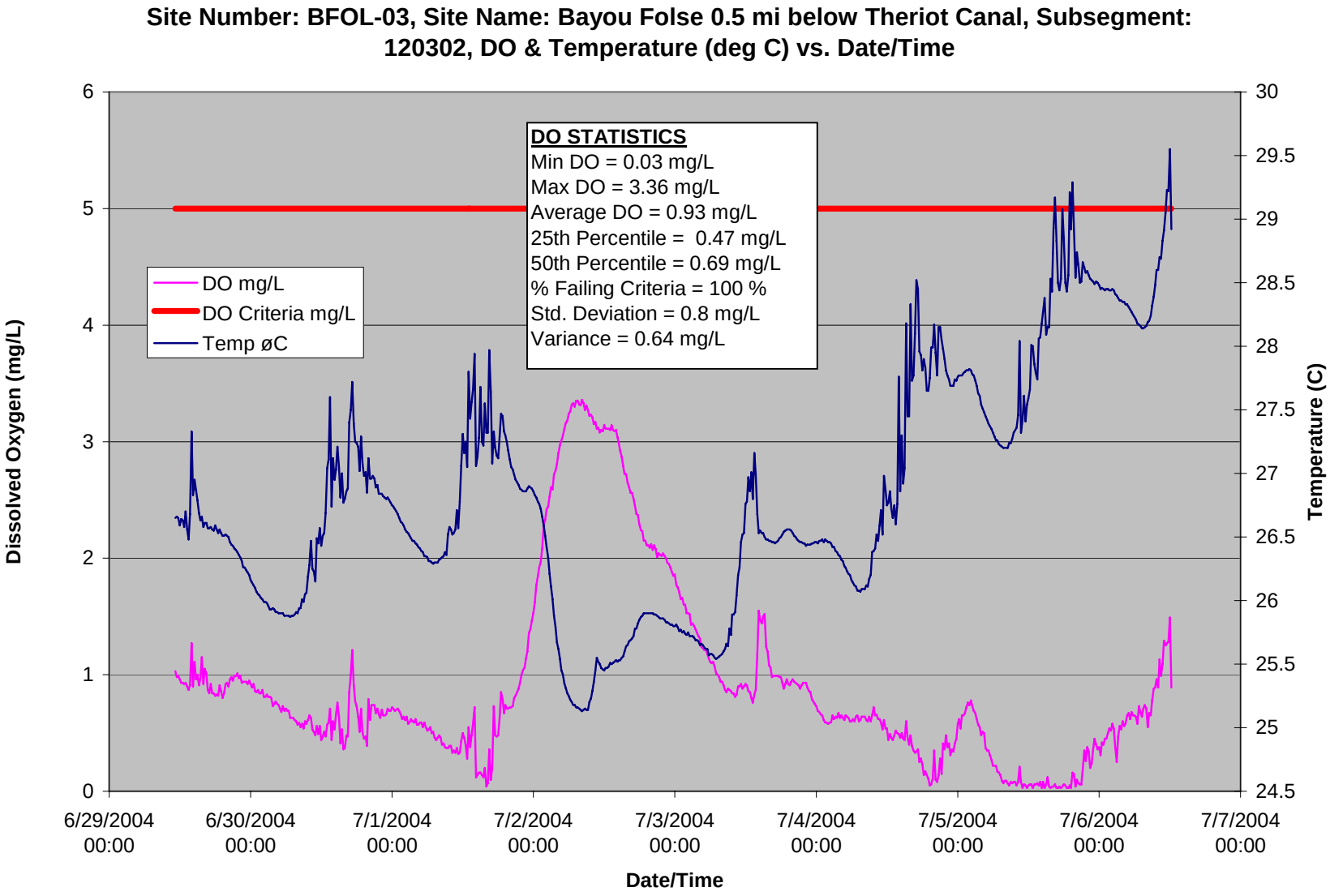
7/5/2004	22:45	7/5/2004 22:45	29.82	6.95	152.6	49.6	3.76	0.07	1	5
7/5/2004	23:00	7/5/2004 23:00	29.83	6.96	153	50.9	3.86	0.07	1	5
7/5/2004	23:15	7/5/2004 23:15	29.8	6.95	152.8	49	3.71	0.07	1	5
7/5/2004	23:30	7/5/2004 23:30	29.75	6.96	152.6	52.1	3.95	0.07	1	5
7/5/2004	23:45	7/5/2004 23:45	29.71	6.96	152.6	51.2	3.88	0.07	1	5
7/6/2004	0:00	7/6/2004 00:00	29.69	6.96	152.3	51	3.87	0.07	1	5
7/6/2004	0:15	7/6/2004 00:15	29.66	6.96	152.1	52.3	3.97	0.07	1	5
7/6/2004	0:30	7/6/2004 00:30	29.62	6.97	152.2	51.2	3.89	0.07	1	5
7/6/2004	0:45	7/6/2004 00:45	29.62	6.97	152.2	50.9	3.87	0.07	1	5
7/6/2004	1:00	7/6/2004 01:00	29.61	6.96	152.3	50.9	3.87	0.07	1	5
7/6/2004	1:15	7/6/2004 01:15	29.59	6.97	152.1	51.5	3.92	0.07	1	5
7/6/2004	1:30	7/6/2004 01:30	29.57	6.97	152.2	50.8	3.86	0.07	1	5
7/6/2004	1:45	7/6/2004 01:45	29.5	6.96	152.3	48.5	3.7	0.07	1	5
7/6/2004	2:00	7/6/2004 02:00	29.5	6.96	152.5	50.1	3.82	0.07	1	5
7/6/2004	2:15	7/6/2004 02:15	29.47	6.95	152.5	48.7	3.71	0.07	1	5
7/6/2004	2:30	7/6/2004 02:30	29.44	6.96	152.5	49	3.74	0.07	1	5
7/6/2004	2:45	7/6/2004 02:45	29.4	6.95	152.8	45.2	3.45	0.07	1	5
7/6/2004	3:00	7/6/2004 03:00	29.38	6.96	152.8	47.9	3.66	0.07	1	5
7/6/2004	3:15	7/6/2004 03:15	29.35	6.95	152.9	47.6	3.63	0.07	1	5
7/6/2004	3:30	7/6/2004 03:30	29.3	6.95	152.9	46.6	3.56	0.07	1	5
7/6/2004	3:45	7/6/2004 03:45	29.27	6.94	153.2	44	3.36	0.07	1	5
7/6/2004	4:00	7/6/2004 04:00	29.22	6.95	153.1	45.9	3.51	0.07	1	5
7/6/2004	4:15	7/6/2004 04:15	29.18	6.94	153.1	45.6	3.5	0.07	1	5
7/6/2004	4:30	7/6/2004 04:30	29.13	6.94	153	44.8	3.44	0.07	1	5
7/6/2004	4:45	7/6/2004 04:45	29.08	6.94	152.9	43.5	3.34	0.07	1	5
7/6/2004	5:00	7/6/2004 05:00	29.02	6.93	153.2	41.9	3.22	0.07	1	5
7/6/2004	5:15	7/6/2004 05:15	28.96	6.93	153.2	43.4	3.34	0.07	1	5
7/6/2004	5:30	7/6/2004 05:30	28.91	6.93	153	41.2	3.17	0.07	1	5
7/6/2004	5:45	7/6/2004 05:45	28.86	6.93	153.2	41.8	3.22	0.07	1	5
7/6/2004	6:00	7/6/2004 06:00	28.8	6.92	153.2	40	3.08	0.07	1	5
7/6/2004	6:15	7/6/2004 06:15	28.78	6.91	153.3	38.4	2.97	0.07	1	5
7/6/2004	6:30	7/6/2004 06:30	28.73	6.92	152.6	40	3.09	0.07	1	5
7/6/2004	6:45	7/6/2004 06:45	28.7	6.92	153	37.9	2.93	0.07	1	5

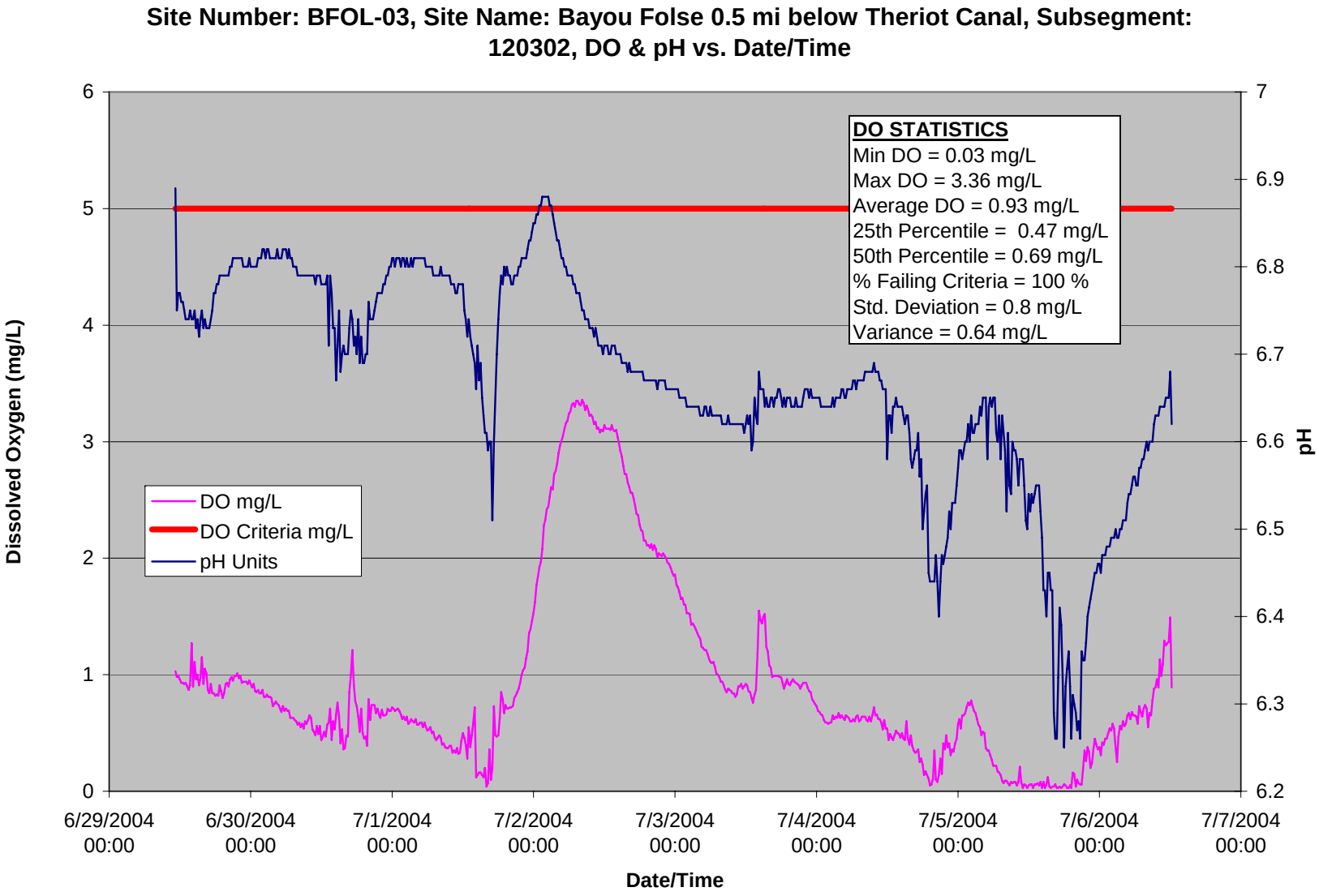
7/6/2004	7:00	7/6/2004 07:00	28.64	6.91	153.3	37.2	2.88	0.07	1	5
7/6/2004	7:15	7/6/2004 07:15	28.63	6.91	153.4	37.3	2.89	0.07	1	5
7/6/2004	7:30	7/6/2004 07:30	28.62	6.91	153.8	36.9	2.86	0.07	1	5
7/6/2004	7:45	7/6/2004 07:45	28.62	6.91	153.8	35.6	2.76	0.07	1	5
7/6/2004	8:00	7/6/2004 08:00	28.63	6.91	153.8	35.4	2.74	0.07	1	5
7/6/2004	8:15	7/6/2004 08:15	28.68	6.91	155.4	36.1	2.79	0.07	1	5
7/6/2004	8:30	7/6/2004 08:30	28.66	6.93	161.6	39.5	3.05	0.07	1	5
7/6/2004	8:45	7/6/2004 08:45	28.61	6.92	159	32.5	2.51	0.07	1	5
7/6/2004	9:00	7/6/2004 09:00	28.64	6.91	165.9	36.2	2.8	0.07	1	5
7/6/2004	9:15	7/6/2004 09:15	28.69	6.92	174.8	36.7	2.83	0.08	1	5
7/6/2004	9:30	7/6/2004 09:30	28.71	6.92	177.2	35.6	2.75	0.08	1	5
7/6/2004	9:45	7/6/2004 09:45	28.68	6.92	177.1	35.7	2.76	0.08	1	5
7/6/2004	10:00	7/6/2004 10:00	28.65	6.9	175.9	31.4	2.43	0.08	1	5
7/6/2004	10:15	7/6/2004 10:15	28.73	6.91	175.3	34.2	2.64	0.08	1	5
7/6/2004	10:30	7/6/2004 10:30	28.7	6.91	174.6	32.7	2.53	0.08	1	5
7/6/2004	10:45	7/6/2004 10:45	28.64	6.89	172.8	28	2.17	0.08	1	5
7/6/2004	11:00	7/6/2004 11:00	28.59	6.89	173.6	28.2	2.18	0.08	1	5
7/6/2004	11:15	7/6/2004 11:15	28.63	6.89	174.2	29.3	2.27	0.08	1	5
7/6/2004	11:30	7/6/2004 11:30	28.48	6.87	177.9	26.2	2.03	0.08	1	5
7/6/2004	11:45	7/6/2004 11:45	29.08	6.95	173.8	42.9	3.29	0.08	1	5
7/6/2004	12:00	7/6/2004 12:00	28.17	6.82	175.7	12.7	0.99	0.08	1	5
7/6/2004	12:15	7/6/2004 12:15	29.04	6.98	172	51.5	3.95	0.08	1	5
7/6/2004	12:30	7/6/2004 12:30	28.79	6.92	171.4	35.1	2.71	0.08	1	5
7/6/2004	12:45	7/6/2004 12:45	28.39	6.85	174.8	21	1.63	0.08	1	5
7/6/2004	13:00	7/6/2004 13:00	28.59	6.88	174.7	29.2	2.26	0.08	1	5
7/6/2004	13:15	7/6/2004 13:15	28.76	6.92	174	37.5	2.89	0.08	1	5
7/6/2004	13:30	7/6/2004 13:30	28.01	6.81	174	13.6	1.06	0.08	1	5
7/6/2004	13:45	7/6/2004 13:45	28.41	6.91	171.3	37.4	2.9	0.08	1	5
7/6/2004	14:00	7/6/2004 14:00	28.44	6.96	169.4	48.6	3.77	0.08	1	5
7/6/2004	14:15	7/6/2004 14:15	28.4	6.97	168.7	48.4	3.76	0.07	1	5

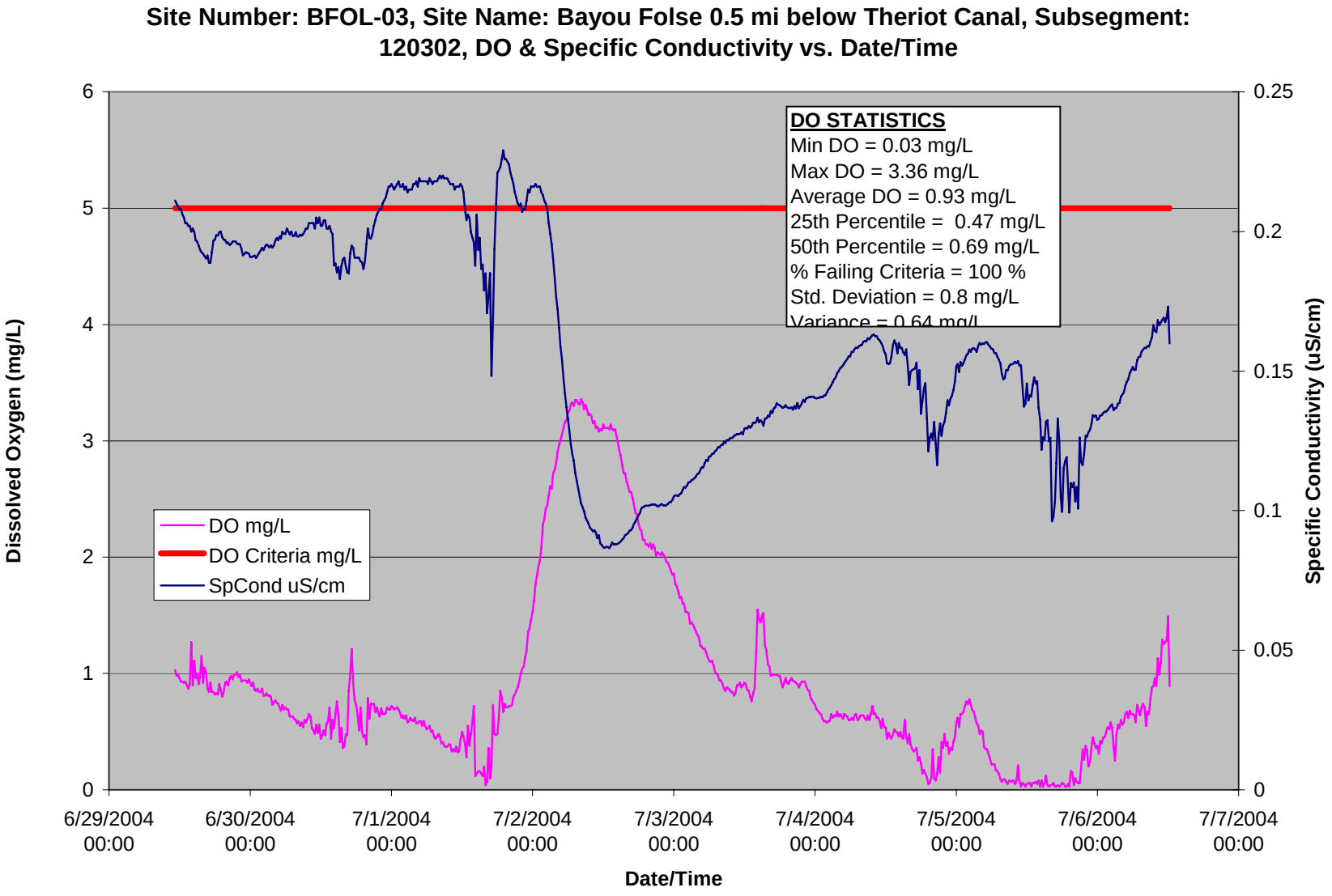
Site Number: BFOL-02 Site Name: Bayou Folse midway between Bayou Du Mar and Bayou Cutoff
Subsegment #: 120302 Date: 6/29/2004

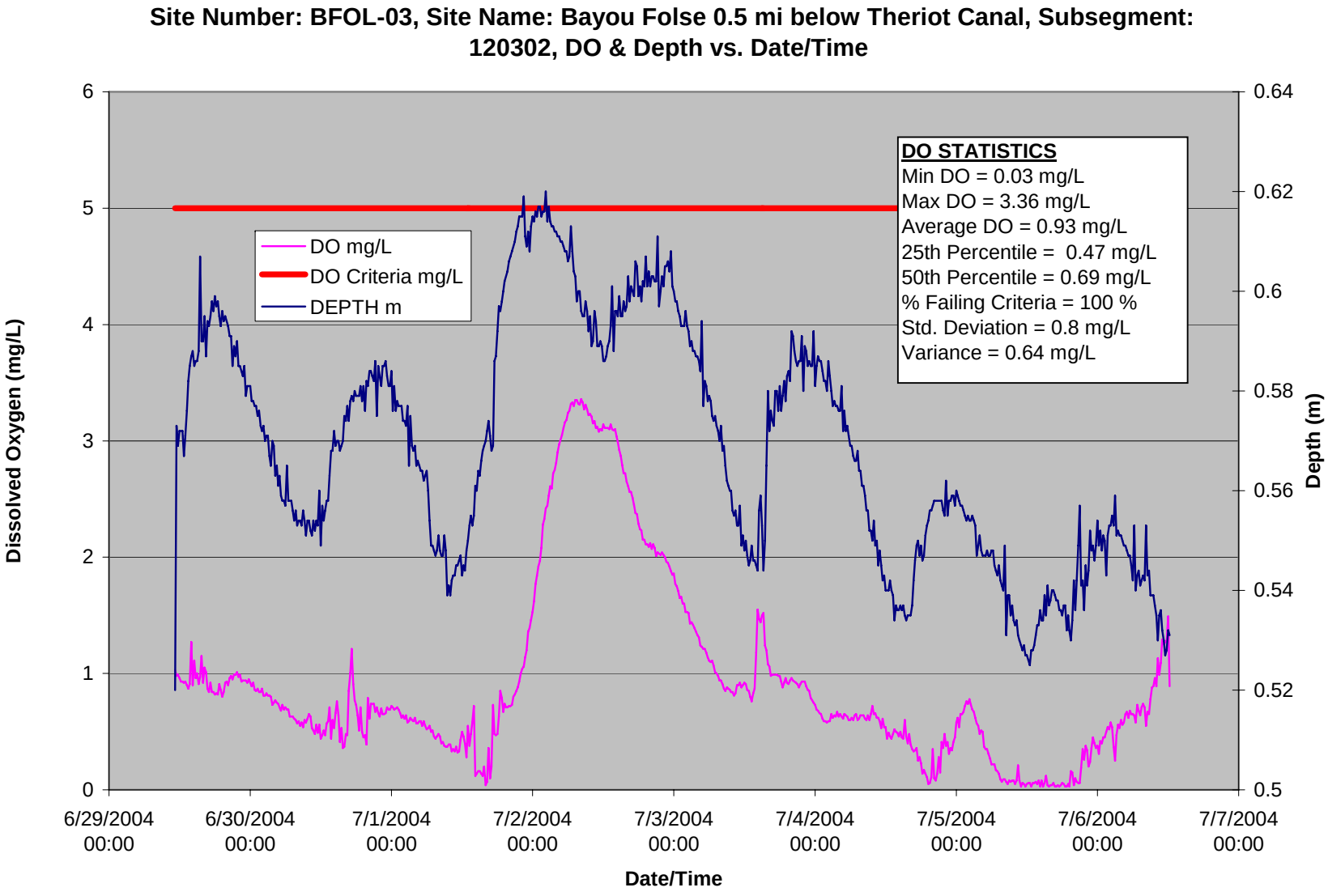
	Temp deg C	pH	SpCond uS/cm	DO %	DO mg/L
Minimum	25.95	6.73	109.90	8.70	0.69
Maximum	31.37	7.04	221.00	65.90	4.86
Average	27.59	6.83	169.17	24.59	1.93
25th Percentile	26.72	6.77	149.25	16.40	1.30
30th Percentile	26.94	6.78	152.28	17.70	1.40
40th Percentile	27.14	6.80	153.94	19.50	1.55
50th Percentile	27.39	6.83	166.70	22.60	1.81
Standard Deviation	1.09	0.07	32.50	10.71	0.80
Variance	1.19	0.00	1055.94	114.79	0.64

Data Row Count	687
Total Values Failing DO Criteria	687
Percent failing DO Criteria	100.00 %


Site Number: BFOL-03, Site Name: Bayou Folse 0.5 mi below Theriot Canal, Subsegment: 120302, DO & Temperature (deg C) vs. Date/Time
DO STATISTICS
Min DO = 0.03 mg/L
Max DO = 3.36 mg/L
Average DO = 0.93 mg/L
25th Percentile = 0.47 mg/L
50th Percentile = 0.69 mg/L
% Failing Criteria = 100 %
Std. Deviation = 0.8 mg/L
Variance = 0.64 mg/L
DO mg/L
DO Criteria mg/L
Temp øC
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
0
1
2
3
4
5
6
24.5
25
25.5
26
26.5
27
27.5
28
28.5
29
29.5
30
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BFOL-03, Site Name: Bayou Folse 0.5 mi below Theriot Canal, Subsegment: 120302, DO & pH vs. Date/Time
DO STATISTICS
Min DO = 0.03 mg/L
Max DO = 3.36 mg/L
Average DO = 0.93 mg/L
25th Percentile = 0.47 mg/L
50th Percentile = 0.69 mg/L
% Failing Criteria = 100 %
Std. Deviation = 0.8 mg/L
Variance = 0.64 mg/L
DO mg/L
DO Criteria mg/L
pH Units
Dissolved Oxygen (mg/L)
pH
Date/Time
0
1
2
3
4
5
6
6.2
6.3
6.4
6.5
6.6
6.7
6.8
6.9
7
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BFOL-03, Site Name: Bayou Folse 0.5 mi below Theriot Canal, Subsegment: 120302, DO & Specific Conductivity vs. Date/Time
DO STATISTICS
Min DO = 0.03 mg/L
Max DO = 3.36 mg/L
Average DO = 0.93 mg/L
25th Percentile = 0.47 mg/L
50th Percentile = 0.69 mg/L
% Failing Criteria = 100 %
Std. Deviation = 0.8 mg/L
Variance = 0.64 mg/L
DO mg/L
DO Criteria mg/L
SpCond uS/cm
Dissolved Oxygen (mg/L)
Specific Conductivity (uS/cm)
Date/Time
0
1
2
3
4
5
6
0
0.05
0.1
0.15
0.2
0.25
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00


Site Number: BFOL-03, Site Name: Bayou Folse 0.5 mi below Theriot Canal, Subsegment: 120302, DO & Depth vs. Date/Time
DO STATISTICS
Min DO = 0.03 mg/L
Max DO = 3.36 mg/L
Average DO = 0.93 mg/L
25th Percentile = 0.47 mg/L
50th Percentile = 0.69 mg/L
% Failing Criteria = 100 %
Std. Deviation = 0.8 mg/L
Variance = 0.64 mg/L
DO mg/L
DO Criteria mg/L
DEPTH m
Dissolved Oxygen (mg/L)
Depth (m)
Date/Time
0
1
2
3
4
5
6
0.5
0.52
0.54
0.56
0.58
0.6
0.62
0.64
6/29/2004 00:00
6/30/2004 00:00
7/1/2004 00:00
7/2/2004 00:00
7/3/2004 00:00
7/4/2004 00:00
7/5/2004 00:00
7/6/2004 00:00
7/7/2004 00:00

Bayou Cutoff Site BFOL-03 Continuous Monitoring Data

Date_ Time	Date+Time	Temp	pH	SpCond		DEPTH		DO PERCENT			DO	SALINITY	Is DO < Criteria	DO Criteria
MMDDYY	HHMM	MMDDYYYY HHMM		øC	Units	uS/cm	m	Sat	mg/L	ppt	5	mg/L		
6/29/2004	11:15	6/29/2004 11:15	26.65	6.89	0.211	0.52	12.8	1.03	0.1	1	5			
6/29/2004	11:30	6/29/2004 11:30	26.66	6.75	0.21	0.573	12.2	0.98	0.1	1	5			
6/29/2004	11:45	6/29/2004 11:45	26.65	6.77	0.209	0.569	12.4	0.99	0.1	1	5			
6/29/2004	12:00	6/29/2004 12:00	26.59	6.77	0.208	0.572	11.9	0.96	0.1	1	5			
6/29/2004	12:15	6/29/2004 12:15	26.64	6.76	0.208	0.572	11.7	0.93	0.1	1	5			
6/29/2004	12:30	6/29/2004 12:30	26.63	6.76	0.206	0.572	11.7	0.93	0.09	1	5			
6/29/2004	12:45	6/29/2004 12:45	26.58	6.75	0.205	0.567	11.5	0.92	0.09	1	5			
6/29/2004	13:00	6/29/2004 13:00	26.7	6.74	0.203	0.571	11.6	0.93	0.09	1	5			
6/29/2004	13:15	6/29/2004 13:15	26.56	6.74	0.203	0.576	11.2	0.9	0.09	1	5			
6/29/2004	13:30	6/29/2004 13:30	26.48	6.74	0.202	0.582	10.8	0.87	0.09	1	5			
6/29/2004	13:45	6/29/2004 13:45	26.68	6.75	0.202	0.585	11.3	0.91	0.09	1	5			
6/29/2004	14:00	6/29/2004 14:00	27.33	6.74	0.2	0.587	16	1.27	0.09	1	5			
6/29/2004	14:15	6/29/2004 14:15	26.83	6.74	0.201	0.588	11.3	0.9	0.09	1	5			
6/29/2004	14:30	6/29/2004 14:30	26.95	6.75	0.1999	0.585	13.9	1.11	0.09	1	5			
6/29/2004	14:45	6/29/2004 14:45	26.87	6.73	0.1968	0.586	12.1	0.96	0.09	1	5			
6/29/2004	15:00	6/29/2004 15:00	26.79	6.74	0.1964	0.586	12.6	1	0.09	1	5			
6/29/2004	15:15	6/29/2004 15:15	26.69	6.72	0.1949	0.588	11.3	0.91	0.09	1	5			
6/29/2004	15:30	6/29/2004 15:30	26.63	6.74	0.1934	0.607	12.2	0.97	0.09	1	5			
6/29/2004	15:45	6/29/2004 15:45	26.66	6.75	0.1925	0.59	14.4	1.15	0.09	1	5			
6/29/2004	16:00	6/29/2004 16:00	26.58	6.73	0.192	0.59	11.4	0.92	0.09	1	5			
6/29/2004	16:15	6/29/2004 16:15	26.61	6.74	0.1912	0.595	13.2	1.05	0.09	1	5			
6/29/2004	16:30	6/29/2004 16:30	26.61	6.73	0.1903	0.587	12.6	1.01	0.09	1	5			
6/29/2004	16:45	6/29/2004 16:45	26.57	6.73	0.1914	0.594	10.8	0.87	0.09	1	5			
6/29/2004	17:00	6/29/2004 17:00	26.57	6.73	0.1888	0.593	10.4	0.84	0.09	1	5			
6/29/2004	17:15	6/29/2004 17:15	26.58	6.74	0.1888	0.595	11.4	0.92	0.09	1	5			
6/29/2004	17:30	6/29/2004 17:30	26.56	6.75	0.1926	0.598	10.4	0.84	0.09	1	5			
6/29/2004	17:45	6/29/2004 17:45	26.55	6.77	0.1967	0.596	10.4	0.84	0.09	1	5			
6/29/2004	18:00	6/29/2004 18:00	26.59	6.77	0.1971	0.599	10.3	0.82	0.09	1	5			
6/29/2004	18:15	6/29/2004 18:15	26.56	6.78	0.1987	0.597	10.3	0.83	0.09	1	5			
6/29/2004	18:30	6/29/2004 18:30	26.53	6.78	0.1985	0.598	10.2	0.82	0.09	1	5			

6/29/2004	18:45	6/29/2004	18:45	26.56	6.79	0.1997	0.595	11.3	0.91	0.09	1	5
6/29/2004	19:00	6/29/2004	19:00	26.53	6.79	0.2	0.593	10.8	0.86	0.09	1	5
6/29/2004	19:15	6/29/2004	19:15	26.51	6.79	0.1979	0.596	10	0.8	0.09	1	5
6/29/2004	19:30	6/29/2004	19:30	26.51	6.79	0.1971	0.594	10.5	0.84	0.09	1	5
6/29/2004	19:45	6/29/2004	19:45	26.52	6.79	0.1969	0.595	11.5	0.92	0.09	1	5
6/29/2004	20:00	6/29/2004	20:00	26.51	6.79	0.1959	0.594	11.6	0.93	0.09	1	5
6/29/2004	20:15	6/29/2004	20:15	26.5	6.79	0.196	0.593	11.3	0.9	0.09	1	5
6/29/2004	20:30	6/29/2004	20:30	26.46	6.8	0.1952	0.591	12	0.96	0.09	1	5
6/29/2004	20:45	6/29/2004	20:45	26.44	6.8	0.1955	0.591	12.2	0.98	0.09	1	5
6/29/2004	21:00	6/29/2004	21:00	26.43	6.81	0.1963	0.585	11.8	0.95	0.09	1	5
6/29/2004	21:15	6/29/2004	21:15	26.41	6.81	0.1965	0.589	12.2	0.99	0.09	1	5
6/29/2004	21:30	6/29/2004	21:30	26.4	6.81	0.1965	0.587	12.2	0.99	0.09	1	5
6/29/2004	21:45	6/29/2004	21:45	26.38	6.81	0.1957	0.59	12.6	1.01	0.09	1	5
6/29/2004	22:00	6/29/2004	22:00	26.36	6.81	0.1954	0.585	12	0.97	0.09	1	5
6/29/2004	22:15	6/29/2004	22:15	26.34	6.81	0.1954	0.585	12.3	0.99	0.09	1	5
6/29/2004	22:30	6/29/2004	22:30	26.31	6.81	0.1938	0.584	11.6	0.93	0.09	1	5
6/29/2004	22:45	6/29/2004	22:45	26.26	6.8	0.1915	0.583	11.7	0.94	0.09	1	5
6/29/2004	23:00	6/29/2004	23:00	26.26	6.8	0.1919	0.585	11.6	0.94	0.09	1	5
6/29/2004	23:15	6/29/2004	23:15	26.24	6.8	0.1926	0.579	11.7	0.94	0.09	1	5
6/29/2004	23:30	6/29/2004	23:30	26.22	6.8	0.1923	0.581	11.4	0.92	0.09	1	5
6/29/2004	23:45	6/29/2004	23:45	26.2	6.81	0.1921	0.581	11.8	0.95	0.09	1	5
6/30/2004	0:00	6/30/2004	00:00	26.16	6.8	0.1909	0.581	11.4	0.92	0.09	1	5
6/30/2004	0:15	6/30/2004	00:15	26.14	6.8	0.1909	0.578	11	0.89	0.09	1	5
6/30/2004	0:30	6/30/2004	00:30	26.12	6.8	0.1911	0.578	11.3	0.92	0.09	1	5
6/30/2004	0:45	6/30/2004	00:45	26.1	6.8	0.1914	0.577	10.6	0.86	0.09	1	5
6/30/2004	1:00	6/30/2004	01:00	26.07	6.8	0.1905	0.577	10.4	0.85	0.09	1	5
6/30/2004	1:15	6/30/2004	01:15	26.05	6.81	0.1914	0.575	10.7	0.87	0.09	1	5
6/30/2004	1:30	6/30/2004	01:30	26.04	6.81	0.1923	0.576	10.4	0.84	0.09	1	5
6/30/2004	1:45	6/30/2004	01:45	26.02	6.81	0.1931	0.573	10.4	0.84	0.09	1	5
6/30/2004	2:00	6/30/2004	02:00	26.01	6.82	0.1941	0.572	10.7	0.87	0.09	1	5
6/30/2004	2:15	6/30/2004	02:15	25.99	6.82	0.1933	0.573	10	0.81	0.09	1	5
6/30/2004	2:30	6/30/2004	02:30	25.99	6.81	0.1945	0.57	9.9	0.81	0.09	1	5
6/30/2004	2:45	6/30/2004	02:45	25.98	6.82	0.1953	0.571	10.2	0.83	0.09	1	5

6/30/2004	3:00	6/30/2004 03:00	25.96	6.82	0.195	0.571	9.9	0.81	0.09	1	5
6/30/2004	3:15	6/30/2004 03:15	25.93	6.81	0.1943	0.567	10	0.81	0.09	1	5
6/30/2004	3:30	6/30/2004 03:30	25.93	6.81	0.195	0.565	9.9	0.8	0.09	1	5
6/30/2004	3:45	6/30/2004 03:45	25.94	6.81	0.1943	0.57	9	0.73	0.09	1	5
6/30/2004	4:00	6/30/2004 04:00	25.93	6.81	0.195	0.569	9.3	0.75	0.09	1	5
6/30/2004	4:15	6/30/2004 04:15	25.91	6.81	0.1966	0.563	9.5	0.77	0.09	1	5
6/30/2004	4:30	6/30/2004 04:30	25.91	6.82	0.1976	0.565	9.3	0.75	0.09	1	5
6/30/2004	4:45	6/30/2004 04:45	25.9	6.81	0.1969	0.561	9.1	0.74	0.09	1	5
6/30/2004	5:00	6/30/2004 05:00	25.9	6.81	0.1982	0.563	8.8	0.71	0.09	1	5
6/30/2004	5:15	6/30/2004 05:15	25.9	6.81	0.1975	0.559	8.4	0.68	0.09	1	5
6/30/2004	5:30	6/30/2004 05:30	25.9	6.82	0.1999	0.558	9	0.73	0.09	1	5
6/30/2004	5:45	6/30/2004 05:45	25.88	6.82	0.1992	0.558	8.5	0.69	0.09	1	5
6/30/2004	6:00	6/30/2004 06:00	25.88	6.82	0.1991	0.557	8.8	0.71	0.09	1	5
6/30/2004	6:15	6/30/2004 06:15	25.88	6.81	0.201	0.565	8.5	0.69	0.09	1	5
6/30/2004	6:30	6/30/2004 06:30	25.88	6.82	0.2	0.558	8.5	0.69	0.09	1	5
6/30/2004	6:45	6/30/2004 06:45	25.87	6.81	0.1989	0.558	7.7	0.63	0.09	1	5
6/30/2004	7:00	6/30/2004 07:00	25.88	6.81	0.2	0.558	7.8	0.63	0.09	1	5
6/30/2004	7:15	6/30/2004 07:15	25.88	6.8	0.1984	0.556	7.8	0.63	0.09	1	5
6/30/2004	7:30	6/30/2004 07:30	25.89	6.8	0.1984	0.554	7.5	0.61	0.09	1	5
6/30/2004	7:45	6/30/2004 07:45	25.91	6.8	0.1997	0.556	7.4	0.6	0.09	1	5
6/30/2004	8:00	6/30/2004 08:00	25.9	6.79	0.1982	0.553	7	0.57	0.09	1	5
6/30/2004	8:15	6/30/2004 08:15	25.94	6.79	0.1981	0.554	7.2	0.59	0.09	1	5
6/30/2004	8:30	6/30/2004 08:30	25.94	6.79	0.1988	0.554	6.8	0.55	0.09	1	5
6/30/2004	8:45	6/30/2004 08:45	26.01	6.79	0.1985	0.553	7.1	0.58	0.09	1	5
6/30/2004	9:00	6/30/2004 09:00	25.99	6.79	0.199	0.556	6.7	0.54	0.09	1	5
6/30/2004	9:15	6/30/2004 09:15	26.05	6.79	0.2	0.554	7.4	0.6	0.09	1	5
6/30/2004	9:30	6/30/2004 09:30	26.06	6.79	0.201	0.551	7.1	0.58	0.09	1	5
6/30/2004	9:45	6/30/2004 09:45	26.19	6.79	0.201	0.554	7.5	0.61	0.09	1	5
6/30/2004	10:00	6/30/2004 10:00	26.28	6.79	0.203	0.554	8	0.65	0.09	1	5
6/30/2004	10:15	6/30/2004 10:15	26.47	6.79	0.203	0.552	7.9	0.63	0.09	1	5
6/30/2004	10:30	6/30/2004 10:30	26.25	6.79	0.203	0.551	6.6	0.53	0.09	1	5
6/30/2004	10:45	6/30/2004 10:45	26.23	6.79	0.203	0.554	6.4	0.51	0.09	1	5
6/30/2004	11:00	6/30/2004 11:00	26.15	6.78	0.201	0.552	5.9	0.48	0.09	1	5

6/30/2004	11:15	6/30/2004	11:15	26.49	6.79	0.205	0.554	7	0.56	0.09	1	5
6/30/2004	11:30	6/30/2004	11:30	26.45	6.79	0.203	0.553	6	0.49	0.09	1	5
6/30/2004	11:45	6/30/2004	11:45	26.57	6.79	0.205	0.56	6.9	0.56	0.09	1	5
6/30/2004	12:00	6/30/2004	12:00	26.43	6.78	0.202	0.549	5.5	0.44	0.09	1	5
6/30/2004	12:15	6/30/2004	12:15	26.51	6.78	0.202	0.557	5.8	0.47	0.09	1	5
6/30/2004	12:30	6/30/2004	12:30	26.53	6.78	0.204	0.554	6.4	0.51	0.09	1	5
6/30/2004	12:45	6/30/2004	12:45	26.69	6.78	0.204	0.556	5.9	0.47	0.09	1	5
6/30/2004	13:00	6/30/2004	13:00	27.04	6.79	0.201	0.558	7.1	0.57	0.09	1	5
6/30/2004	13:15	6/30/2004	13:15	27.11	6.71	0.201	0.558	7.4	0.59	0.09	1	5
6/30/2004	13:30	6/30/2004	13:30	27.6	6.79	0.202	0.563	9	0.71	0.09	1	5
6/30/2004	13:45	6/30/2004	13:45	26.74	6.77	0.2	0.568	5.5	0.44	0.09	1	5
6/30/2004	14:00	6/30/2004	14:00	27.12	6.73	0.1991	0.568	7.5	0.6	0.09	1	5
6/30/2004	14:15	6/30/2004	14:15	26.95	6.73	0.1879	0.572	6.6	0.53	0.09	1	5
6/30/2004	14:30	6/30/2004	14:30	27.03	6.67	0.1885	0.569	8.3	0.66	0.09	1	5
6/30/2004	14:45	6/30/2004	14:45	27.21	6.71	0.1853	0.57	9.6	0.76	0.08	1	5
6/30/2004	15:00	6/30/2004	15:00	27.05	6.75	0.1873	0.57	8.1	0.64	0.08	1	5
6/30/2004	15:15	6/30/2004	15:15	26.81	6.68	0.183	0.568	5.1	0.41	0.08	1	5
6/30/2004	15:30	6/30/2004	15:30	27	6.7	0.1875	0.569	6.7	0.53	0.09	1	5
6/30/2004	15:45	6/30/2004	15:45	26.77	6.71	0.19	0.57	4.5	0.36	0.09	1	5
6/30/2004	16:00	6/30/2004	16:00	26.8	6.7	0.1906	0.575	4.6	0.37	0.09	1	5
6/30/2004	16:15	6/30/2004	16:15	26.86	6.7	0.1874	0.574	6	0.48	0.08	1	5
6/30/2004	16:30	6/30/2004	16:30	26.88	6.7	0.1852	0.577	5.9	0.47	0.08	1	5
6/30/2004	16:45	6/30/2004	16:45	27.4	6.73	0.185	0.574	10.7	0.85	0.08	1	5
6/30/2004	17:00	6/30/2004	17:00	27.5	6.75	0.1923	0.578	12.7	1	0.09	1	5
6/30/2004	17:15	6/30/2004	17:15	27.72	6.74	0.1949	0.579	15.3	1.21	0.09	1	5
6/30/2004	17:30	6/30/2004	17:30	27.39	6.71	0.1942	0.578	11.5	0.91	0.09	1	5
6/30/2004	17:45	6/30/2004	17:45	27.25	6.72	0.1906	0.58	9.7	0.77	0.09	1	5
6/30/2004	18:00	6/30/2004	18:00	27.24	6.7	0.1907	0.579	9.2	0.73	0.09	1	5
6/30/2004	18:15	6/30/2004	18:15	27.21	6.74	0.1906	0.579	8	0.64	0.09	1	5
6/30/2004	18:30	6/30/2004	18:30	27.02	6.69	0.1905	0.579	6.4	0.51	0.09	1	5
6/30/2004	18:45	6/30/2004	18:45	27.29	6.72	0.1893	0.581	8.9	0.71	0.09	1	5
6/30/2004	19:00	6/30/2004	19:00	27.07	6.69	0.1889	0.578	6.3	0.5	0.09	1	5
6/30/2004	19:15	6/30/2004	19:15	26.98	6.69	0.1866	0.581	5.7	0.45	0.08	1	5

6/30/2004	19:30	6/30/2004	19:30	27.01	6.7	0.1896	0.576	5.9	0.47	0.09	1	5
6/30/2004	19:45	6/30/2004	19:45	26.85	6.7	0.1955	0.582	4.9	0.39	0.09	1	5
6/30/2004	20:00	6/30/2004	20:00	27.12	6.76	0.201	0.581	10	0.79	0.09	1	5
6/30/2004	20:15	6/30/2004	20:15	26.96	6.74	0.1977	0.584	7.6	0.61	0.09	1	5
6/30/2004	20:30	6/30/2004	20:30	26.96	6.74	0.1974	0.584	9.3	0.74	0.09	1	5
6/30/2004	20:45	6/30/2004	20:45	26.98	6.74	0.1988	0.583	9.3	0.74	0.09	1	5
6/30/2004	21:00	6/30/2004	21:00	26.96	6.75	0.202	0.582	9.3	0.74	0.09	1	5
6/30/2004	21:15	6/30/2004	21:15	26.89	6.76	0.204	0.586	8.3	0.67	0.09	1	5
6/30/2004	21:30	6/30/2004	21:30	26.91	6.77	0.206	0.575	8.8	0.71	0.09	1	5
6/30/2004	21:45	6/30/2004	21:45	26.84	6.77	0.207	0.585	8.3	0.66	0.1	1	5
6/30/2004	22:00	6/30/2004	22:00	26.84	6.77	0.208	0.583	7.9	0.63	0.1	1	5
6/30/2004	22:15	6/30/2004	22:15	26.84	6.77	0.208	0.581	8.8	0.7	0.1	1	5
6/30/2004	22:30	6/30/2004	22:30	26.82	6.78	0.21	0.585	8.1	0.65	0.1	1	5
6/30/2004	22:45	6/30/2004	22:45	26.81	6.78	0.211	0.585	8.2	0.65	0.1	1	5
6/30/2004	23:00	6/30/2004	23:00	26.8	6.79	0.212	0.586	8.3	0.66	0.1	1	5
6/30/2004	23:15	6/30/2004	23:15	26.81	6.79	0.214	0.583	8.9	0.71	0.1	1	5
6/30/2004	23:30	6/30/2004	23:30	26.79	6.8	0.216	0.581	8.6	0.69	0.1	1	5
6/30/2004	23:45	6/30/2004	23:45	26.77	6.8	0.216	0.581	8.7	0.69	0.1	1	5
7/1/2004	0:00	7/1/2004	00:00	26.75	6.81	0.217	0.584	9	0.72	0.1	1	5
7/1/2004	0:15	7/1/2004	00:15	26.74	6.81	0.216	0.576	8.8	0.71	0.1	1	5
7/1/2004	0:30	7/1/2004	00:30	26.72	6.8	0.215	0.581	8.6	0.69	0.1	1	5
7/1/2004	0:45	7/1/2004	00:45	26.7	6.81	0.216	0.576	8.8	0.7	0.1	1	5
7/1/2004	1:00	7/1/2004	01:00	26.68	6.81	0.217	0.578	8.8	0.71	0.1	1	5
7/1/2004	1:15	7/1/2004	01:15	26.65	6.81	0.218	0.577	8.6	0.69	0.1	1	5
7/1/2004	1:30	7/1/2004	01:30	26.62	6.8	0.216	0.577	8.2	0.66	0.1	1	5
7/1/2004	1:45	7/1/2004	01:45	26.61	6.81	0.216	0.577	7.8	0.62	0.1	1	5
7/1/2004	2:00	7/1/2004	02:00	26.59	6.81	0.217	0.574	8	0.64	0.1	1	5
7/1/2004	2:15	7/1/2004	02:15	26.56	6.8	0.215	0.574	7.6	0.61	0.1	1	5
7/1/2004	2:30	7/1/2004	02:30	26.54	6.81	0.216	0.573	8	0.64	0.1	1	5
7/1/2004	2:45	7/1/2004	02:45	26.53	6.8	0.214	0.577	7.2	0.58	0.1	1	5
7/1/2004	3:00	7/1/2004	03:00	26.51	6.8	0.215	0.565	7.4	0.59	0.1	1	5
7/1/2004	3:15	7/1/2004	03:15	26.49	6.81	0.215	0.575	7.7	0.62	0.1	1	5
7/1/2004	3:30	7/1/2004	03:30	26.47	6.8	0.215	0.569	7.4	0.6	0.1	1	5

7/1/2004	3:45	7/1/2004 03:45	26.47	6.81	0.217	0.568	7.4	0.59	0.1	1	5
7/1/2004	4:00	7/1/2004 04:00	26.45	6.81	0.217	0.569	7.7	0.62	0.1	1	5
7/1/2004	4:15	7/1/2004 04:15	26.44	6.81	0.218	0.565	7.1	0.57	0.1	1	5
7/1/2004	4:30	7/1/2004 04:30	26.42	6.81	0.216	0.566	7	0.57	0.1	1	5
7/1/2004	4:45	7/1/2004 04:45	26.41	6.81	0.219	0.565	7.3	0.59	0.1	1	5
7/1/2004	5:00	7/1/2004 05:00	26.39	6.81	0.218	0.564	7.3	0.59	0.1	1	5
7/1/2004	5:15	7/1/2004 05:15	26.38	6.81	0.218	0.564	6.9	0.55	0.1	1	5
7/1/2004	5:30	7/1/2004 05:30	26.35	6.81	0.218	0.562	7.4	0.59	0.1	1	5
7/1/2004	5:45	7/1/2004 05:45	26.35	6.8	0.218	0.563	6.8	0.55	0.1	1	5
7/1/2004	6:00	7/1/2004 06:00	26.34	6.8	0.218	0.564	6.5	0.52	0.1	1	5
7/1/2004	6:15	7/1/2004 06:15	26.31	6.8	0.217	0.56	6.6	0.53	0.1	1	5
7/1/2004	6:30	7/1/2004 06:30	26.31	6.8	0.219	0.554	6.8	0.55	0.1	1	5
7/1/2004	6:45	7/1/2004 06:45	26.3	6.8	0.218	0.549	6.2	0.5	0.1	1	5
7/1/2004	7:00	7/1/2004 07:00	26.29	6.79	0.217	0.549	6.3	0.51	0.1	1	5
7/1/2004	7:15	7/1/2004 07:15	26.3	6.79	0.218	0.548	5.7	0.46	0.1	1	5
7/1/2004	7:30	7/1/2004 07:30	26.3	6.79	0.218	0.547	5.5	0.44	0.1	1	5
7/1/2004	7:45	7/1/2004 07:45	26.3	6.79	0.218	0.548	5.7	0.46	0.1	1	5
7/1/2004	8:00	7/1/2004 08:00	26.32	6.79	0.219	0.551	6	0.48	0.1	1	5
7/1/2004	8:15	7/1/2004 08:15	26.33	6.8	0.22	0.548	5.7	0.46	0.1	1	5
7/1/2004	8:30	7/1/2004 08:30	26.34	6.79	0.219	0.547	5	0.4	0.1	1	5
7/1/2004	8:45	7/1/2004 08:45	26.35	6.79	0.22	0.547	5.1	0.41	0.1	1	5
7/1/2004	9:00	7/1/2004 09:00	26.38	6.79	0.219	0.551	4.7	0.38	0.1	1	5
7/1/2004	9:15	7/1/2004 09:15	26.36	6.79	0.219	0.548	4.6	0.37	0.1	1	5
7/1/2004	9:30	7/1/2004 09:30	26.52	6.79	0.219	0.539	4.6	0.37	0.1	1	5
7/1/2004	9:45	7/1/2004 09:45	26.58	6.79	0.218	0.541	4.9	0.39	0.1	1	5
7/1/2004	10:00	7/1/2004 10:00	26.56	6.78	0.217	0.539	4.8	0.39	0.1	1	5
7/1/2004	10:15	7/1/2004 10:15	26.52	6.78	0.217	0.542	4.1	0.33	0.1	1	5
7/1/2004	10:30	7/1/2004 10:30	26.53	6.78	0.217	0.543	4.3	0.35	0.1	1	5
7/1/2004	10:45	7/1/2004 10:45	26.56	6.77	0.215	0.543	4.1	0.33	0.1	1	5
7/1/2004	11:00	7/1/2004 11:00	26.71	6.77	0.216	0.545	4.6	0.37	0.1	1	5
7/1/2004	11:15	7/1/2004 11:15	26.57	6.78	0.216	0.545	4	0.32	0.1	1	5
7/1/2004	11:30	7/1/2004 11:30	26.78	6.78	0.216	0.546	4.1	0.33	0.1	1	5
7/1/2004	11:45	7/1/2004 11:45	27.06	6.78	0.217	0.547	5.5	0.43	0.1	1	5

7/1/2004	12:00	7/1/2004	12:00	27.31	6.78	0.216	0.543	6.4	0.5	0.1	1	5
7/1/2004	12:15	7/1/2004	12:15	27.16	6.75	0.214	0.545	5.8	0.46	0.1	1	5
7/1/2004	12:30	7/1/2004	12:30	27.25	6.74	0.208	0.544	5	0.4	0.1	1	5
7/1/2004	12:45	7/1/2004	12:45	27.05	6.72	0.204	0.548	3.5	0.28	0.09	1	5
7/1/2004	13:00	7/1/2004	13:00	27.8	6.74	0.206	0.55	7	0.55	0.09	1	5
7/1/2004	13:15	7/1/2004	13:15	27.43	6.72	0.205	0.553	4.9	0.38	0.09	1	5
7/1/2004	13:30	7/1/2004	13:30	27.56	6.71	0.1998	0.555	6.1	0.48	0.09	1	5
7/1/2004	13:45	7/1/2004	13:45	27.66	6.7	0.1979	0.553	7.4	0.58	0.09	1	5
7/1/2004	14:00	7/1/2004	14:00	27.94	6.69	0.196	0.555	9.2	0.72	0.09	1	5
7/1/2004	14:15	7/1/2004	14:15	27.06	6.66	0.1877	0.561	1.6	0.12	0.09	1	5
7/1/2004	14:30	7/1/2004	14:30	27.13	6.71	0.206	0.56	1.7	0.14	0.09	1	5
7/1/2004	14:45	7/1/2004	14:45	27.28	6.67	0.1934	0.564	2.1	0.16	0.09	1	5
7/1/2004	15:00	7/1/2004	15:00	27.68	6.69	0.1977	0.563	2	0.16	0.09	1	5
7/1/2004	15:15	7/1/2004	15:15	27.25	6.65	0.1866	0.566	1.7	0.14	0.08	1	5
7/1/2004	15:30	7/1/2004	15:30	27.22	6.63	0.1881	0.568	1.6	0.12	0.09	1	5
7/1/2004	15:45	7/1/2004	15:45	27.55	6.61	0.1789	0.569	2.6	0.2	0.08	1	5
7/1/2004	16:00	7/1/2004	16:00	27.32	6.61	0.185	0.57	0.5	0.04	0.08	1	5
7/1/2004	16:15	7/1/2004	16:15	27.32	6.59	0.1708	0.572	0.9	0.07	0.08	1	5
7/1/2004	16:30	7/1/2004	16:30	27.97	6.6	0.1768	0.574	4.6	0.36	0.08	1	5
7/1/2004	16:45	7/1/2004	16:45	27.64	6.6	0.1851	0.571	1.3	0.1	0.08	1	5
7/1/2004	17:00	7/1/2004	17:00	27.08	6.51	0.1483	0.568	2.6	0.2	0.06	1	5
7/1/2004	17:15	7/1/2004	17:15	27.33	6.6	0.1688	0.569	9.2	0.73	0.07	1	5
7/1/2004	17:30	7/1/2004	17:30	27.2	6.65	0.1937	0.586	6.1	0.48	0.09	1	5
7/1/2004	17:45	7/1/2004	17:45	27.14	6.7	0.208	0.587	5.9	0.47	0.1	1	5
7/1/2004	18:00	7/1/2004	18:00	27.12	6.74	0.221	0.592	6	0.48	0.1	1	5
7/1/2004	18:15	7/1/2004	18:15	27.29	6.77	0.222	0.597	8	0.63	0.1	1	5
7/1/2004	18:30	7/1/2004	18:30	27.47	6.79	0.223	0.596	10.8	0.85	0.1	1	5
7/1/2004	18:45	7/1/2004	18:45	27.45	6.78	0.226	0.598	10	0.79	0.11	1	5
7/1/2004	19:00	7/1/2004	19:00	27.33	6.8	0.229	0.6	8.4	0.67	0.11	1	5
7/1/2004	19:15	7/1/2004	19:15	27.3	6.79	0.226	0.602	9.3	0.74	0.11	1	5
7/1/2004	19:30	7/1/2004	19:30	27.25	6.8	0.226	0.603	9	0.71	0.11	1	5
7/1/2004	19:45	7/1/2004	19:45	27.18	6.79	0.225	0.604	8.9	0.71	0.1	1	5
7/1/2004	20:00	7/1/2004	20:00	27.11	6.79	0.224	0.606	9.1	0.72	0.1	1	5

7/1/2004	20:15	7/1/2004	20:15	27.05	6.78	0.221	0.607	9.1	0.72	0.1	1	5
7/1/2004	20:30	7/1/2004	20:30	27.03	6.78	0.219	0.608	9.2	0.73	0.1	1	5
7/1/2004	20:45	7/1/2004	20:45	26.99	6.79	0.217	0.609	10	0.8	0.1	1	5
7/1/2004	21:00	7/1/2004	21:00	26.95	6.79	0.214	0.61	10.3	0.82	0.1	1	5
7/1/2004	21:15	7/1/2004	21:15	26.93	6.79	0.212	0.612	10.7	0.85	0.1	1	5
7/1/2004	21:30	7/1/2004	21:30	26.91	6.8	0.21	0.613	11	0.88	0.1	1	5
7/1/2004	21:45	7/1/2004	21:45	26.88	6.8	0.209	0.615	11.7	0.93	0.1	1	5
7/1/2004	22:00	7/1/2004	22:00	26.87	6.81	0.21	0.615	12.6	1	0.1	1	5
7/1/2004	22:15	7/1/2004	22:15	26.86	6.81	0.207	0.615	13.1	1.04	0.1	1	5
7/1/2004	22:30	7/1/2004	22:30	26.86	6.81	0.208	0.619	13.3	1.06	0.1	1	5
7/1/2004	22:45	7/1/2004	22:45	26.86	6.81	0.208	0.611	14.3	1.14	0.1	1	5
7/1/2004	23:00	7/1/2004	23:00	26.88	6.82	0.211	0.609	15	1.2	0.1	1	5
7/1/2004	23:15	7/1/2004	23:15	26.9	6.83	0.215	0.612	17	1.36	0.1	1	5
7/1/2004	23:30	7/1/2004	23:30	26.89	6.83	0.214	0.608	17.4	1.39	0.1	1	5
7/1/2004	23:45	7/1/2004	23:45	26.88	6.84	0.216	0.613	18.3	1.46	0.1	1	5
7/2/2004	0:00	7/2/2004	00:00	26.86	6.85	0.216	0.615	19.2	1.53	0.1	1	5
7/2/2004	0:15	7/2/2004	00:15	26.83	6.85	0.216	0.614	20.3	1.62	0.1	1	5
7/2/2004	0:30	7/2/2004	00:30	26.81	6.86	0.217	0.616	22.2	1.77	0.1	1	5
7/2/2004	0:45	7/2/2004	00:45	26.78	6.86	0.216	0.615	23.1	1.84	0.1	1	5
7/2/2004	1:00	7/2/2004	01:00	26.76	6.87	0.216	0.617	24	1.92	0.1	1	5
7/2/2004	1:15	7/2/2004	01:15	26.72	6.87	0.216	0.617	24.6	1.97	0.1	1	5
7/2/2004	1:30	7/2/2004	01:30	26.66	6.88	0.214	0.615	26	2.08	0.1	1	5
7/2/2004	1:45	7/2/2004	01:45	26.59	6.88	0.213	0.616	28.4	2.28	0.1	1	5
7/2/2004	2:00	7/2/2004	02:00	26.51	6.88	0.211	0.616	29	2.33	0.1	1	5
7/2/2004	2:15	7/2/2004	02:15	26.42	6.88	0.21	0.62	30	2.42	0.1	1	5
7/2/2004	2:30	7/2/2004	02:30	26.34	6.88	0.208	0.614	30.3	2.44	0.1	1	5
7/2/2004	2:45	7/2/2004	02:45	26.21	6.87	0.203	0.617	31.3	2.53	0.09	1	5
7/2/2004	3:00	7/2/2004	03:00	26.11	6.87	0.1993	0.614	32.2	2.61	0.09	1	5
7/2/2004	3:15	7/2/2004	03:15	26.01	6.86	0.1953	0.613	32	2.59	0.09	1	5
7/2/2004	3:30	7/2/2004	03:30	25.88	6.85	0.19	0.613	33.5	2.72	0.09	1	5
7/2/2004	3:45	7/2/2004	03:45	25.79	6.84	0.1837	0.612	33.7	2.75	0.08	1	5
7/2/2004	4:00	7/2/2004	04:00	25.67	6.83	0.1767	0.612	34.4	2.81	0.08	1	5
7/2/2004	4:15	7/2/2004	04:15	25.62	6.83	0.1723	0.611	35.5	2.9	0.08	1	5

7/2/2004	4:30	7/2/2004	04:30	25.54	6.82	0.1656	0.611	36.3	2.97	0.07	1	5
7/2/2004	4:45	7/2/2004	04:45	25.45	6.81	0.1586	0.61	36.8	3.01	0.07	1	5
7/2/2004	5:00	7/2/2004	05:00	25.42	6.81	0.1543	0.61	37.2	3.05	0.07	1	5
7/2/2004	5:15	7/2/2004	05:15	25.35	6.8	0.1475	0.609	37.9	3.11	0.06	1	5
7/2/2004	5:30	7/2/2004	05:30	25.31	6.8	0.142	0.608	38.5	3.16	0.06	1	5
7/2/2004	5:45	7/2/2004	05:45	25.27	6.79	0.137	0.608	38.7	3.18	0.06	1	5
7/2/2004	6:00	7/2/2004	06:00	25.25	6.79	0.1329	0.606	39.4	3.24	0.06	1	5
7/2/2004	6:15	7/2/2004	06:15	25.22	6.79	0.1286	0.607	39.6	3.26	0.05	1	5
7/2/2004	6:30	7/2/2004	06:30	25.2	6.79	0.1235	0.613	40.4	3.32	0.05	1	5
7/2/2004	6:45	7/2/2004	06:45	25.18	6.78	0.1202	0.608	40.5	3.33	0.05	1	5
7/2/2004	7:00	7/2/2004	07:00	25.18	6.78	0.1179	0.604	40	3.3	0.05	1	5
7/2/2004	7:15	7/2/2004	07:15	25.16	6.77	0.1135	0.603	40.6	3.35	0.05	1	5
7/2/2004	7:30	7/2/2004	07:30	25.16	6.77	0.1107	0.598	40.7	3.35	0.04	1	5
7/2/2004	7:45	7/2/2004	07:45	25.15	6.77	0.1078	0.6	40.3	3.32	0.04	1	5
7/2/2004	8:00	7/2/2004	08:00	25.14	6.76	0.1051	0.6	40.2	3.31	0.04	1	5
7/2/2004	8:15	7/2/2004	08:15	25.13	6.75	0.1026	0.596	40.7	3.36	0.04	1	5
7/2/2004	8:30	7/2/2004	08:30	25.14	6.75	0.1012	0.595	40.4	3.33	0.04	1	5
7/2/2004	8:45	7/2/2004	08:45	25.15	6.74	0.0998	0.595	39.6	3.27	0.04	1	5
7/2/2004	9:00	7/2/2004	09:00	25.14	6.74	0.0975	0.598	40.1	3.31	0.04	1	5
7/2/2004	9:15	7/2/2004	09:15	25.14	6.74	0.0964	0.596	39.7	3.27	0.04	1	5
7/2/2004	9:30	7/2/2004	09:30	25.2	6.73	0.0954	0.592	39.1	3.22	0.04	1	5
7/2/2004	9:45	7/2/2004	09:45	25.23	6.73	0.0939	0.595	39.2	3.23	0.03	1	5
7/2/2004	10:00	7/2/2004	10:00	25.29	6.73	0.0933	0.589	39	3.21	0.03	1	5
7/2/2004	10:15	7/2/2004	10:15	25.36	6.72	0.0926	0.59	38.4	3.15	0.03	1	5
7/2/2004	10:30	7/2/2004	10:30	25.45	6.73	0.0929	0.596	38.7	3.17	0.03	1	5
7/2/2004	10:45	7/2/2004	10:45	25.55	6.72	0.0921	0.594	38	3.11	0.03	1	5
7/2/2004	11:00	7/2/2004	11:00	25.52	6.71	0.0901	0.589	38.1	3.12	0.03	1	5
7/2/2004	11:15	7/2/2004	11:15	25.5	6.71	0.0912	0.589	37.7	3.08	0.03	1	5
7/2/2004	11:30	7/2/2004	11:30	25.47	6.71	0.0883	0.59	37.8	3.1	0.03	1	5
7/2/2004	11:45	7/2/2004	11:45	25.46	6.7	0.0877	0.589	37.7	3.09	0.03	1	5
7/2/2004	12:00	7/2/2004	12:00	25.45	6.71	0.0869	0.586	38.3	3.14	0.03	1	5
7/2/2004	12:15	7/2/2004	12:15	25.47	6.71	0.0867	0.586	38	3.11	0.03	1	5
7/2/2004	12:30	7/2/2004	12:30	25.47	6.71	0.087	0.587	37.9	3.11	0.03	1	5

7/2/2004	12:45	7/2/2004	12:45	25.48	6.7	0.087	0.589	37.9	3.11	0.03	1	5
7/2/2004	13:00	7/2/2004	13:00	25.51	6.7	0.0866	0.59	37.9	3.1	0.03	1	5
7/2/2004	13:15	7/2/2004	13:15	25.5	6.71	0.0873	0.593	38.4	3.14	0.03	1	5
7/2/2004	13:30	7/2/2004	13:30	25.51	6.71	0.0885	0.601	37.8	3.1	0.03	1	5
7/2/2004	13:45	7/2/2004	13:45	25.52	6.71	0.0879	0.588	37.8	3.09	0.03	1	5
7/2/2004	14:00	7/2/2004	14:00	25.53	6.7	0.088	0.596	37.8	3.1	0.03	1	5
7/2/2004	14:15	7/2/2004	14:15	25.52	6.7	0.088	0.596	37.2	3.04	0.03	1	5
7/2/2004	14:30	7/2/2004	14:30	25.53	6.7	0.0881	0.595	36.5	2.99	0.03	1	5
7/2/2004	14:45	7/2/2004	14:45	25.53	6.7	0.0885	0.599	35.7	2.92	0.03	1	5
7/2/2004	15:00	7/2/2004	15:00	25.55	6.69	0.089	0.595	35.1	2.87	0.03	1	5
7/2/2004	15:15	7/2/2004	15:15	25.56	6.69	0.0897	0.595	34.2	2.79	0.03	1	5
7/2/2004	15:30	7/2/2004	15:30	25.6	6.69	0.0901	0.598	33.3	2.72	0.03	1	5
7/2/2004	15:45	7/2/2004	15:45	25.64	6.69	0.0913	0.596	33.3	2.72	0.03	1	5
7/2/2004	16:00	7/2/2004	16:00	25.65	6.68	0.0915	0.597	32.4	2.65	0.03	1	5
7/2/2004	16:15	7/2/2004	16:15	25.68	6.69	0.092	0.603	32	2.61	0.03	1	5
7/2/2004	16:30	7/2/2004	16:30	25.69	6.68	0.0928	0.598	31.4	2.56	0.03	1	5
7/2/2004	16:45	7/2/2004	16:45	25.7	6.68	0.093	0.601	31.4	2.56	0.03	1	5
7/2/2004	17:00	7/2/2004	17:00	25.72	6.68	0.0939	0.6	30.9	2.51	0.03	1	5
7/2/2004	17:15	7/2/2004	17:15	25.78	6.68	0.0952	0.599	30.1	2.45	0.04	1	5
7/2/2004	17:30	7/2/2004	17:30	25.78	6.68	0.0961	0.606	29.2	2.38	0.04	1	5
7/2/2004	17:45	7/2/2004	17:45	25.82	6.68	0.0972	0.605	29.1	2.37	0.04	1	5
7/2/2004	18:00	7/2/2004	18:00	25.85	6.68	0.0983	0.599	28.1	2.29	0.04	1	5
7/2/2004	18:15	7/2/2004	18:15	25.87	6.68	0.0992	0.601	27.6	2.24	0.04	1	5
7/2/2004	18:30	7/2/2004	18:30	25.88	6.68	0.1008	0.598	27.4	2.23	0.04	1	5
7/2/2004	18:45	7/2/2004	18:45	25.9	6.67	0.1012	0.602	26.5	2.15	0.04	1	5
7/2/2004	19:00	7/2/2004	19:00	25.9	6.67	0.1015	0.601	26.4	2.15	0.04	1	5
7/2/2004	19:15	7/2/2004	19:15	25.9	6.67	0.1018	0.607	25.9	2.11	0.04	1	5
7/2/2004	19:30	7/2/2004	19:30	25.9	6.67	0.1018	0.601	26	2.11	0.04	1	5
7/2/2004	19:45	7/2/2004	19:45	25.9	6.67	0.1018	0.604	25.7	2.09	0.04	1	5
7/2/2004	20:00	7/2/2004	20:00	25.9	6.67	0.102	0.601	26.1	2.12	0.04	1	5
7/2/2004	20:15	7/2/2004	20:15	25.9	6.67	0.1021	0.603	25.4	2.07	0.04	1	5
7/2/2004	20:30	7/2/2004	20:30	25.89	6.67	0.1022	0.603	25.9	2.11	0.04	1	5
7/2/2004	20:45	7/2/2004	20:45	25.89	6.67	0.1022	0.602	25.6	2.08	0.04	1	5

7/2/2004	21:00	7/2/2004	21:00	25.88	6.66	0.102	0.602	24.8	2.01	0.04	1	5
7/2/2004	21:15	7/2/2004	21:15	25.87	6.67	0.1016	0.611	25	2.04	0.04	1	5
7/2/2004	21:30	7/2/2004	21:30	25.86	6.67	0.1016	0.597	25	2.03	0.04	1	5
7/2/2004	21:45	7/2/2004	21:45	25.86	6.67	0.1021	0.6	24.9	2.02	0.04	1	5
7/2/2004	22:00	7/2/2004	22:00	25.86	6.67	0.1023	0.603	25.1	2.04	0.04	1	5
7/2/2004	22:15	7/2/2004	22:15	25.85	6.67	0.1019	0.601	24.9	2.02	0.04	1	5
7/2/2004	22:30	7/2/2004	22:30	25.83	6.66	0.1019	0.605	24.6	2	0.04	1	5
7/2/2004	22:45	7/2/2004	22:45	25.83	6.66	0.102	0.605	24	1.96	0.04	1	5
7/2/2004	23:00	7/2/2004	23:00	25.82	6.66	0.1024	0.606	24	1.95	0.04	1	5
7/2/2004	23:15	7/2/2004	23:15	25.81	6.66	0.1029	0.604	23.6	1.92	0.04	1	5
7/2/2004	23:30	7/2/2004	23:30	25.81	6.66	0.1031	0.608	23.1	1.88	0.04	1	5
7/2/2004	23:45	7/2/2004	23:45	25.8	6.66	0.1038	0.601	22.7	1.85	0.04	1	5
7/3/2004	0:00	7/3/2004	00:00	25.8	6.66	0.105	0.6	22.9	1.86	0.04	1	5
7/3/2004	0:15	7/3/2004	00:15	25.81	6.66	0.1055	0.598	21.8	1.77	0.04	1	5
7/3/2004	0:30	7/3/2004	00:30	25.79	6.66	0.1055	0.598	21.5	1.75	0.04	1	5
7/3/2004	0:45	7/3/2004	00:45	25.76	6.65	0.1052	0.596	21	1.71	0.04	1	5
7/3/2004	1:00	7/3/2004	01:00	25.77	6.65	0.1059	0.595	20.3	1.65	0.04	1	5
7/3/2004	1:15	7/3/2004	01:15	25.75	6.65	0.1062	0.593	20.3	1.66	0.04	1	5
7/3/2004	1:30	7/3/2004	01:30	25.76	6.65	0.1075	0.593	19.7	1.6	0.04	1	5
7/3/2004	1:45	7/3/2004	01:45	25.74	6.65	0.1085	0.593	19.7	1.6	0.04	1	5
7/3/2004	2:00	7/3/2004	02:00	25.73	6.64	0.1083	0.596	18.8	1.53	0.04	1	5
7/3/2004	2:15	7/3/2004	02:15	25.75	6.64	0.1091	0.593	18.7	1.53	0.04	1	5
7/3/2004	2:30	7/3/2004	02:30	25.72	6.64	0.1101	0.592	18.7	1.52	0.04	1	5
7/3/2004	2:45	7/3/2004	02:45	25.72	6.64	0.1102	0.589	17.6	1.43	0.04	1	5
7/3/2004	3:00	7/3/2004	03:00	25.72	6.64	0.1109	0.59	17.7	1.44	0.04	1	5
7/3/2004	3:15	7/3/2004	03:15	25.71	6.64	0.1112	0.588	17.4	1.42	0.04	1	5
7/3/2004	3:30	7/3/2004	03:30	25.69	6.64	0.1116	0.588	17	1.39	0.04	1	5
7/3/2004	3:45	7/3/2004	03:45	25.69	6.64	0.1122	0.587	16.7	1.36	0.04	1	5
7/3/2004	4:00	7/3/2004	04:00	25.68	6.64	0.1131	0.587	16.3	1.33	0.05	1	5
7/3/2004	4:15	7/3/2004	04:15	25.65	6.63	0.1134	0.586	16.1	1.31	0.05	1	5
7/3/2004	4:30	7/3/2004	04:30	25.66	6.63	0.1145	0.584	15.2	1.24	0.05	1	5
7/3/2004	4:45	7/3/2004	04:45	25.65	6.63	0.1155	0.594	15.1	1.23	0.05	1	5
7/3/2004	5:00	7/3/2004	05:00	25.63	6.64	0.1155	0.577	14.8	1.21	0.05	1	5

7/3/2004	5:15	7/3/2004 05:15	25.62	6.64	0.1171	0.582	14.9	1.21	0.05	1	5
7/3/2004	5:30	7/3/2004 05:30	25.62	6.63	0.1182	0.581	14.4	1.18	0.05	1	5
7/3/2004	5:45	7/3/2004 05:45	25.57	6.63	0.1178	0.578	13.9	1.14	0.05	1	5
7/3/2004	6:00	7/3/2004 06:00	25.58	6.64	0.1193	0.579	13.6	1.11	0.05	1	5
7/3/2004	6:15	7/3/2004 06:15	25.58	6.63	0.1195	0.578	13.4	1.1	0.05	1	5
7/3/2004	6:30	7/3/2004 06:30	25.57	6.63	0.1203	0.575	13.6	1.11	0.05	1	5
7/3/2004	6:45	7/3/2004 06:45	25.55	6.63	0.1205	0.574	13	1.07	0.05	1	5
7/3/2004	7:00	7/3/2004 07:00	25.54	6.63	0.1213	0.575	12.4	1.01	0.05	1	5
7/3/2004	7:15	7/3/2004 07:15	25.55	6.63	0.1217	0.573	12.3	1	0.05	1	5
7/3/2004	7:30	7/3/2004 07:30	25.56	6.63	0.1227	0.572	11.9	0.98	0.05	1	5
7/3/2004	7:45	7/3/2004 07:45	25.57	6.63	0.1226	0.57	11.5	0.94	0.05	1	5
7/3/2004	8:00	7/3/2004 08:00	25.58	6.62	0.1235	0.573	11.5	0.94	0.05	1	5
7/3/2004	8:15	7/3/2004 08:15	25.6	6.62	0.1235	0.568	11.2	0.91	0.05	1	5
7/3/2004	8:30	7/3/2004 08:30	25.62	6.62	0.1247	0.569	10.7	0.87	0.05	1	5
7/3/2004	8:45	7/3/2004 08:45	25.66	6.62	0.1242	0.565	10.5	0.85	0.05	1	5
7/3/2004	9:00	7/3/2004 09:00	25.64	6.63	0.1253	0.562	10.8	0.88	0.05	1	5
7/3/2004	9:15	7/3/2004 09:15	25.78	6.62	0.1251	0.561	10.7	0.87	0.05	1	5
7/3/2004	9:30	7/3/2004 09:30	25.73	6.62	0.1258	0.56	10.6	0.86	0.05	1	5
7/3/2004	9:45	7/3/2004 09:45	25.89	6.62	0.126	0.56	10.3	0.84	0.05	1	5
7/3/2004	10:00	7/3/2004 10:00	25.89	6.62	0.1261	0.556	10.4	0.84	0.05	1	5
7/3/2004	10:15	7/3/2004 10:15	25.91	6.62	0.1267	0.555	10	0.81	0.05	1	5
7/3/2004	10:30	7/3/2004 10:30	26.04	6.62	0.1271	0.556	10.2	0.83	0.05	1	5
7/3/2004	10:45	7/3/2004 10:45	26.2	6.62	0.1274	0.553	11.1	0.9	0.05	1	5
7/3/2004	11:00	7/3/2004 11:00	26.26	6.62	0.1274	0.553	11.2	0.9	0.05	1	5
7/3/2004	11:15	7/3/2004 11:15	26.46	6.62	0.1275	0.557	11.4	0.92	0.05	1	5
7/3/2004	11:30	7/3/2004 11:30	26.52	6.62	0.128	0.549	11	0.88	0.05	1	5
7/3/2004	11:45	7/3/2004 11:45	26.53	6.61	0.1273	0.551	11.3	0.9	0.05	1	5
7/3/2004	12:00	7/3/2004 12:00	26.76	6.62	0.1293	0.548	11.5	0.92	0.05	1	5
7/3/2004	12:15	7/3/2004 12:15	26.78	6.63	0.1296	0.55	11.4	0.91	0.05	1	5
7/3/2004	12:30	7/3/2004 12:30	26.97	6.62	0.1294	0.547	10.8	0.86	0.05	1	5
7/3/2004	12:45	7/3/2004 12:45	26.86	6.63	0.1303	0.545	10.7	0.85	0.05	1	5
7/3/2004	13:00	7/3/2004 13:00	27.01	6.59	0.1297	0.546	10	0.8	0.05	1	5
7/3/2004	13:15	7/3/2004 13:15	26.8	6.6	0.1303	0.549	9.5	0.76	0.05	1	5

7/3/2004	13:30	7/3/2004	13:30	27.16	6.65	0.1315	0.546	10.4	0.83	0.05	1	5
7/3/2004	13:45	7/3/2004	13:45	26.99	6.63	0.1314	0.546	10.9	0.87	0.05	1	5
7/3/2004	14:00	7/3/2004	14:00	26.68	6.62	0.1318	0.545	14.7	1.18	0.06	1	5
7/3/2004	14:15	7/3/2004	14:15	26.53	6.68	0.1333	0.544	19.4	1.55	0.06	1	5
7/3/2004	14:30	7/3/2004	14:30	26.55	6.66	0.1316	0.556	18.4	1.47	0.06	1	5
7/3/2004	14:45	7/3/2004	14:45	26.53	6.66	0.1323	0.559	17.9	1.44	0.06	1	5
7/3/2004	15:00	7/3/2004	15:00	26.53	6.66	0.1319	0.553	18.7	1.5	0.06	1	5
7/3/2004	15:15	7/3/2004	15:15	26.5	6.64	0.1304	0.544	18.9	1.52	0.05	1	5
7/3/2004	15:30	7/3/2004	15:30	26.48	6.65	0.1329	0.55	15.5	1.24	0.06	1	5
7/3/2004	15:45	7/3/2004	15:45	26.48	6.64	0.133	0.565	14.9	1.2	0.06	1	5
7/3/2004	16:00	7/3/2004	16:00	26.47	6.64	0.134	0.58	13.5	1.08	0.06	1	5
7/3/2004	16:15	7/3/2004	16:15	26.47	6.65	0.1337	0.572	13.2	1.06	0.06	1	5
7/3/2004	16:30	7/3/2004	16:30	26.46	6.65	0.1357	0.576	12.2	0.98	0.06	1	5
7/3/2004	16:45	7/3/2004	16:45	26.46	6.64	0.135	0.574	12.3	0.99	0.06	1	5
7/3/2004	17:00	7/3/2004	17:00	26.45	6.65	0.1365	0.573	12.3	0.99	0.06	1	5
7/3/2004	17:15	7/3/2004	17:15	26.46	6.65	0.137	0.58	12.3	0.99	0.06	1	5
7/3/2004	17:30	7/3/2004	17:30	26.47	6.66	0.1385	0.58	12.3	0.99	0.06	1	5
7/3/2004	17:45	7/3/2004	17:45	26.49	6.66	0.1379	0.576	12.2	0.98	0.06	1	5
7/3/2004	18:00	7/3/2004	18:00	26.5	6.65	0.1378	0.581	12.2	0.98	0.06	1	5
7/3/2004	18:15	7/3/2004	18:15	26.52	6.64	0.1373	0.576	11.6	0.93	0.06	1	5
7/3/2004	18:30	7/3/2004	18:30	26.54	6.65	0.1368	0.579	11	0.88	0.06	1	5
7/3/2004	18:45	7/3/2004	18:45	26.55	6.64	0.1371	0.582	11.4	0.92	0.06	1	5
7/3/2004	19:00	7/3/2004	19:00	26.56	6.65	0.1378	0.578	11.9	0.96	0.06	1	5
7/3/2004	19:15	7/3/2004	19:15	26.56	6.65	0.1371	0.583	11.4	0.92	0.06	1	5
7/3/2004	19:30	7/3/2004	19:30	26.56	6.65	0.1368	0.584	11.3	0.91	0.06	1	5
7/3/2004	19:45	7/3/2004	19:45	26.55	6.64	0.1367	0.582	11.7	0.94	0.06	1	5
7/3/2004	20:00	7/3/2004	20:00	26.53	6.64	0.137	0.592	11.9	0.96	0.06	1	5
7/3/2004	20:15	7/3/2004	20:15	26.51	6.64	0.1362	0.591	11.7	0.94	0.06	1	5
7/3/2004	20:30	7/3/2004	20:30	26.5	6.65	0.1374	0.588	11.6	0.93	0.06	1	5
7/3/2004	20:45	7/3/2004	20:45	26.48	6.64	0.1366	0.586	11.5	0.92	0.06	1	5
7/3/2004	21:00	7/3/2004	21:00	26.47	6.64	0.1386	0.585	11.3	0.91	0.06	1	5
7/3/2004	21:15	7/3/2004	21:15	26.46	6.64	0.1367	0.586	10.9	0.88	0.06	1	5
7/3/2004	21:30	7/3/2004	21:30	26.46	6.64	0.1375	0.586	11.3	0.91	0.06	1	5

7/3/2004	21:45	7/3/2004	21:45	26.45	6.65	0.1385	0.591	11.6	0.93	0.06	1	5
7/3/2004	22:00	7/3/2004	22:00	26.45	6.66	0.1397	0.58	11.6	0.93	0.06	1	5
7/3/2004	22:15	7/3/2004	22:15	26.43	6.66	0.1389	0.589	11.5	0.93	0.06	1	5
7/3/2004	22:30	7/3/2004	22:30	26.44	6.66	0.1402	0.588	11	0.89	0.06	1	5
7/3/2004	22:45	7/3/2004	22:45	26.44	6.65	0.1404	0.585	10.7	0.86	0.06	1	5
7/3/2004	23:00	7/3/2004	23:00	26.44	6.66	0.1407	0.586	10.6	0.85	0.06	1	5
7/3/2004	23:15	7/3/2004	23:15	26.45	6.65	0.1407	0.585	9.8	0.79	0.06	1	5
7/3/2004	23:30	7/3/2004	23:30	26.45	6.65	0.1408	0.585	9.5	0.77	0.06	1	5
7/3/2004	23:45	7/3/2004	23:45	26.46	6.65	0.1408	0.592	9.3	0.75	0.06	1	5
7/4/2004	0:00	7/4/2004	00:00	26.46	6.65	0.1403	0.581	9	0.73	0.06	1	5
7/4/2004	0:15	7/4/2004	00:15	26.45	6.65	0.1402	0.585	8.6	0.69	0.06	1	5
7/4/2004	0:30	7/4/2004	00:30	26.47	6.65	0.1403	0.587	8.4	0.68	0.06	1	5
7/4/2004	0:45	7/4/2004	00:45	26.47	6.64	0.1405	0.586	8.2	0.66	0.06	1	5
7/4/2004	1:00	7/4/2004	01:00	26.48	6.64	0.1408	0.586	8	0.65	0.06	1	5
7/4/2004	1:15	7/4/2004	01:15	26.46	6.64	0.1406	0.584	7.6	0.61	0.06	1	5
7/4/2004	1:30	7/4/2004	01:30	26.48	6.64	0.1412	0.582	7.3	0.59	0.06	1	5
7/4/2004	1:45	7/4/2004	01:45	26.47	6.64	0.1413	0.582	7.4	0.59	0.06	1	5
7/4/2004	2:00	7/4/2004	02:00	26.46	6.64	0.1423	0.58	7.2	0.58	0.06	1	5
7/4/2004	2:15	7/4/2004	02:15	26.46	6.64	0.1433	0.586	7.4	0.59	0.06	1	5
7/4/2004	2:30	7/4/2004	02:30	26.45	6.64	0.144	0.583	7.3	0.59	0.06	1	5
7/4/2004	2:45	7/4/2004	02:45	26.42	6.65	0.145	0.58	8	0.65	0.06	1	5
7/4/2004	3:00	7/4/2004	03:00	26.42	6.64	0.146	0.577	7.7	0.62	0.06	1	5
7/4/2004	3:15	7/4/2004	03:15	26.39	6.65	0.1471	0.578	7.9	0.64	0.06	1	5
7/4/2004	3:30	7/4/2004	03:30	26.38	6.65	0.1478	0.577	7.9	0.63	0.06	1	5
7/4/2004	3:45	7/4/2004	03:45	26.36	6.65	0.1492	0.577	8.3	0.67	0.06	1	5
7/4/2004	4:00	7/4/2004	04:00	26.35	6.65	0.15	0.576	7.9	0.63	0.06	1	5
7/4/2004	4:15	7/4/2004	04:15	26.32	6.66	0.1509	0.576	8.1	0.65	0.07	1	5
7/4/2004	4:30	7/4/2004	04:30	26.31	6.66	0.1515	0.581	7.9	0.63	0.07	1	5
7/4/2004	4:45	7/4/2004	04:45	26.27	6.65	0.1521	0.572	7.6	0.61	0.07	1	5
7/4/2004	5:00	7/4/2004	05:00	26.26	6.65	0.1528	0.576	8	0.65	0.07	1	5
7/4/2004	5:15	7/4/2004	05:15	26.23	6.66	0.1536	0.572	7.9	0.64	0.07	1	5
7/4/2004	5:30	7/4/2004	05:30	26.21	6.66	0.1543	0.573	7.8	0.63	0.07	1	5
7/4/2004	5:45	7/4/2004	05:45	26.2	6.66	0.1553	0.571	7.5	0.6	0.07	1	5

7/4/2004	6:00	7/4/2004 06:00	26.16	6.66	0.1552	0.569	7.5	0.6	0.07	1	5
7/4/2004	6:15	7/4/2004 06:15	26.14	6.67	0.1569	0.569	7.6	0.62	0.07	1	5
7/4/2004	6:30	7/4/2004 06:30	26.12	6.67	0.1569	0.567	7.4	0.6	0.07	1	5
7/4/2004	6:45	7/4/2004 06:45	26.11	6.66	0.1579	0.566	8	0.64	0.07	1	5
7/4/2004	7:00	7/4/2004 07:00	26.08	6.67	0.1584	0.566	8	0.65	0.07	1	5
7/4/2004	7:15	7/4/2004 07:15	26.08	6.67	0.1582	0.568	7.4	0.6	0.07	1	5
7/4/2004	7:30	7/4/2004 07:30	26.07	6.67	0.1589	0.564	7.5	0.61	0.07	1	5
7/4/2004	7:45	7/4/2004 07:45	26.09	6.67	0.1592	0.564	7.9	0.64	0.07	1	5
7/4/2004	8:00	7/4/2004 08:00	26.09	6.67	0.1594	0.561	8	0.64	0.07	1	5
7/4/2004	8:15	7/4/2004 08:15	26.09	6.68	0.1605	0.561	7.9	0.64	0.07	1	5
7/4/2004	8:30	7/4/2004 08:30	26.12	6.68	0.1608	0.559	7.5	0.61	0.07	1	5
7/4/2004	8:45	7/4/2004 08:45	26.11	6.68	0.1607	0.556	7.4	0.6	0.07	1	5
7/4/2004	9:00	7/4/2004 09:00	26.17	6.68	0.1617	0.556	7.9	0.64	0.07	1	5
7/4/2004	9:15	7/4/2004 09:15	26.2	6.68	0.1614	0.552	7.5	0.6	0.07	1	5
7/4/2004	9:30	7/4/2004 09:30	26.38	6.68	0.1622	0.552	8	0.65	0.07	1	5
7/4/2004	9:45	7/4/2004 09:45	26.39	6.69	0.1629	0.55	8.9	0.72	0.07	1	5
7/4/2004	10:00	7/4/2004 10:00	26.41	6.68	0.163	0.554	8	0.65	0.07	1	5
7/4/2004	10:15	7/4/2004 10:15	26.52	6.68	0.1625	0.549	8.3	0.66	0.07	1	5
7/4/2004	10:30	7/4/2004 10:30	26.47	6.68	0.1624	0.55	7.7	0.62	0.07	1	5
7/4/2004	10:45	7/4/2004 10:45	26.59	6.67	0.1615	0.545	7.8	0.62	0.07	1	5
7/4/2004	11:00	7/4/2004 11:00	26.71	6.67	0.1609	0.548	7.4	0.59	0.07	1	5
7/4/2004	11:15	7/4/2004 11:15	26.52	6.66	0.1601	0.545	6.6	0.53	0.07	1	5
7/4/2004	11:30	7/4/2004 11:30	26.98	6.66	0.159	0.542	7.7	0.61	0.07	1	5
7/4/2004	11:45	7/4/2004 11:45	26.87	6.66	0.1571	0.543	6.8	0.54	0.07	1	5
7/4/2004	12:00	7/4/2004 12:00	26.75	6.58	0.1561	0.54	6.8	0.54	0.07	1	5
7/4/2004	12:15	7/4/2004 12:15	26.77	6.63	0.1528	0.54	5.5	0.44	0.07	1	5
7/4/2004	12:30	7/4/2004 12:30	26.86	6.63	0.1525	0.54	6.1	0.49	0.07	1	5
7/4/2004	12:45	7/4/2004 12:45	26.72	6.61	0.1529	0.542	5.7	0.46	0.07	1	5
7/4/2004	13:00	7/4/2004 13:00	26.65	6.64	0.1551	0.54	5.5	0.44	0.07	1	5
7/4/2004	13:15	7/4/2004 13:15	26.75	6.64	0.1593	0.539	6	0.48	0.07	1	5
7/4/2004	13:30	7/4/2004 13:30	26.6	6.65	0.1609	0.534	6.5	0.52	0.07	1	5
7/4/2004	13:45	7/4/2004 13:45	26.76	6.64	0.1597	0.537	6.3	0.5	0.07	1	5
7/4/2004	14:00	7/4/2004 14:00	27.76	6.64	0.1564	0.536	6.2	0.49	0.07	1	5

7/4/2004	14:15	7/4/2004	14:15	26.86	6.64	0.1601	0.536	5.8	0.46	0.07	1	5
7/4/2004	14:30	7/4/2004	14:30	27.3	6.64	0.1582	0.537	6.3	0.5	0.07	1	5
7/4/2004	14:45	7/4/2004	14:45	26.92	6.63	0.1583	0.536	5.6	0.45	0.07	1	5
7/4/2004	15:00	7/4/2004	15:00	27.04	6.62	0.1566	0.537	5.5	0.44	0.07	1	5
7/4/2004	15:15	7/4/2004	15:15	28.18	6.63	0.1558	0.535	7.7	0.6	0.07	1	5
7/4/2004	15:30	7/4/2004	15:30	27.45	6.63	0.1578	0.534	5.8	0.46	0.07	1	5
7/4/2004	15:45	7/4/2004	15:45	27.45	6.61	0.1521	0.535	5.1	0.4	0.07	1	5
7/4/2004	16:00	7/4/2004	16:00	28.33	6.58	0.145	0.535	6.2	0.48	0.06	1	5
7/4/2004	16:15	7/4/2004	16:15	27.73	6.57	0.1498	0.535	4.9	0.39	0.06	1	5
7/4/2004	16:30	7/4/2004	16:30	27.77	6.58	0.1503	0.537	4.5	0.35	0.07	1	5
7/4/2004	16:45	7/4/2004	16:45	28.1	6.59	0.1507	0.542	4.3	0.33	0.07	1	5
7/4/2004	17:00	7/4/2004	17:00	28.52	6.59	0.1509	0.546	4.4	0.34	0.07	1	5
7/4/2004	17:15	7/4/2004	17:15	28.45	6.61	0.153	0.549	4.6	0.36	0.07	1	5
7/4/2004	17:30	7/4/2004	17:30	27.96	6.56	0.1435	0.55	3.1	0.25	0.06	1	5
7/4/2004	17:45	7/4/2004	17:45	27.93	6.58	0.1503	0.547	3.5	0.28	0.07	1	5
7/4/2004	18:00	7/4/2004	18:00	27.81	6.5	0.1347	0.549	2.9	0.23	0.06	1	5
7/4/2004	18:15	7/4/2004	18:15	27.9	6.52	0.1392	0.546	1.8	0.14	0.06	1	5
7/4/2004	18:30	7/4/2004	18:30	27.83	6.54	0.1437	0.547	2.2	0.17	0.06	1	5
7/4/2004	18:45	7/4/2004	18:45	27.65	6.55	0.1457	0.551	1.7	0.14	0.06	1	5
7/4/2004	19:00	7/4/2004	19:00	27.65	6.45	0.1332	0.553	1.4	0.11	0.06	1	5
7/4/2004	19:15	7/4/2004	19:15	27.75	6.44	0.1213	0.554	0.7	0.05	0.05	1	5
7/4/2004	19:30	7/4/2004	19:30	27.99	6.44	0.1262	0.556	0.7	0.06	0.05	1	5
7/4/2004	19:45	7/4/2004	19:45	27.99	6.44	0.1276	0.556	1.4	0.11	0.05	1	5
7/4/2004	20:00	7/4/2004	20:00	28.17	6.44	0.1256	0.557	4.5	0.35	0.05	1	5
7/4/2004	20:15	7/4/2004	20:15	27.95	6.47	0.1318	0.558	1.2	0.1	0.06	1	5
7/4/2004	20:30	7/4/2004	20:30	27.77	6.44	0.1239	0.558	1.1	0.08	0.05	1	5
7/4/2004	20:45	7/4/2004	20:45	28.15	6.4	0.1163	0.558	1.7	0.14	0.05	1	5
7/4/2004	21:00	7/4/2004	21:00	28.15	6.44	0.1276	0.558	3.5	0.28	0.05	1	5
7/4/2004	21:15	7/4/2004	21:15	28.05	6.47	0.1313	0.558	2	0.15	0.05	1	5
7/4/2004	21:30	7/4/2004	21:30	27.98	6.46	0.1268	0.558	5.3	0.41	0.05	1	5
7/4/2004	21:45	7/4/2004	21:45	27.9	6.47	0.1306	0.556	4.5	0.36	0.05	1	5
7/4/2004	22:00	7/4/2004	22:00	27.81	6.48	0.1318	0.555	6.1	0.48	0.06	1	5
7/4/2004	22:15	7/4/2004	22:15	27.77	6.49	0.1349	0.562	4.9	0.38	0.06	1	5

7/4/2004	22:30	7/4/2004	22:30	27.74	6.52	0.1395	0.555	5.2	0.41	0.06	1	5
7/4/2004	22:45	7/4/2004	22:45	27.69	6.5	0.1377	0.558	4	0.31	0.06	1	5
7/4/2004	23:00	7/4/2004	23:00	27.69	6.53	0.1401	0.558	4.6	0.36	0.06	1	5
7/4/2004	23:15	7/4/2004	23:15	27.69	6.53	0.1411	0.559	4.3	0.34	0.06	1	5
7/4/2004	23:30	7/4/2004	23:30	27.74	6.53	0.1431	0.559	5.2	0.41	0.06	1	5
7/4/2004	23:45	7/4/2004	23:45	27.73	6.55	0.1461	0.557	5.7	0.45	0.06	1	5
7/5/2004	0:00	7/5/2004	00:00	27.76	6.57	0.1516	0.56	7.4	0.58	0.07	1	5
7/5/2004	0:15	7/5/2004	00:15	27.77	6.59	0.1525	0.559	7.9	0.62	0.07	1	5
7/5/2004	0:30	7/5/2004	00:30	27.77	6.59	0.1497	0.558	6.8	0.54	0.06	1	5
7/5/2004	0:45	7/5/2004	00:45	27.77	6.58	0.1532	0.557	8.3	0.65	0.07	1	5
7/5/2004	1:00	7/5/2004	01:00	27.79	6.59	0.152	0.557	8.3	0.65	0.07	1	5
7/5/2004	1:15	7/5/2004	01:15	27.8	6.6	0.1529	0.556	8.6	0.67	0.07	1	5
7/5/2004	1:30	7/5/2004	01:30	27.81	6.6	0.1542	0.555	9.2	0.72	0.07	1	5
7/5/2004	1:45	7/5/2004	01:45	27.81	6.62	0.1557	0.554	9.6	0.76	0.07	1	5
7/5/2004	2:00	7/5/2004	02:00	27.82	6.6	0.1562	0.555	9.5	0.74	0.07	1	5
7/5/2004	2:15	7/5/2004	02:15	27.81	6.63	0.1577	0.554	10	0.78	0.07	1	5
7/5/2004	2:30	7/5/2004	02:30	27.78	6.61	0.1569	0.554	9.3	0.73	0.07	1	5
7/5/2004	2:45	7/5/2004	02:45	27.77	6.61	0.158	0.555	8.7	0.69	0.07	1	5
7/5/2004	3:00	7/5/2004	03:00	27.73	6.62	0.1582	0.554	8.5	0.67	0.07	1	5
7/5/2004	3:15	7/5/2004	03:15	27.69	6.62	0.1578	0.553	7.9	0.62	0.07	1	5
7/5/2004	3:30	7/5/2004	03:30	27.63	6.62	0.1569	0.547	7.2	0.57	0.07	1	5
7/5/2004	3:45	7/5/2004	03:45	27.61	6.64	0.1591	0.549	7	0.55	0.07	1	5
7/5/2004	4:00	7/5/2004	04:00	27.54	6.63	0.1601	0.551	6.1	0.48	0.07	1	5
7/5/2004	4:15	7/5/2004	04:15	27.51	6.65	0.1594	0.548	6.4	0.51	0.07	1	5
7/5/2004	4:30	7/5/2004	04:30	27.48	6.65	0.1598	0.547	6.3	0.5	0.07	1	5
7/5/2004	4:45	7/5/2004	04:45	27.45	6.65	0.1597	0.547	4.6	0.37	0.07	1	5
7/5/2004	5:00	7/5/2004	05:00	27.42	6.58	0.1603	0.547	4.5	0.35	0.07	1	5
7/5/2004	5:15	7/5/2004	05:15	27.39	6.64	0.1603	0.548	4.4	0.35	0.07	1	5
7/5/2004	5:30	7/5/2004	05:30	27.37	6.65	0.1594	0.547	4	0.31	0.07	1	5
7/5/2004	5:45	7/5/2004	05:45	27.35	6.64	0.1587	0.547	3.4	0.27	0.07	1	5
7/5/2004	6:00	7/5/2004	06:00	27.32	6.65	0.158	0.548	2.8	0.22	0.07	1	5
7/5/2004	6:15	7/5/2004	06:15	27.29	6.65	0.1578	0.548	2.8	0.22	0.07	1	5
7/5/2004	6:30	7/5/2004	06:30	27.26	6.61	0.1565	0.545	2.8	0.22	0.07	1	5

7/5/2004	6:45	7/5/2004 06:45	27.26	6.6	0.1565	0.544	2.1	0.17	0.07	1	5
7/5/2004	7:00	7/5/2004 07:00	27.23	6.63	0.1551	0.543	2.1	0.16	0.07	1	5
7/5/2004	7:15	7/5/2004 07:15	27.22	6.58	0.1541	0.545	1.8	0.14	0.07	1	5
7/5/2004	7:30	7/5/2004 07:30	27.21	6.63	0.1527	0.542	1.2	0.09	0.07	1	5
7/5/2004	7:45	7/5/2004 07:45	27.2	6.61	0.1491	0.541	0.9	0.07	0.06	1	5
7/5/2004	8:00	7/5/2004 08:00	27.2	6.59	0.1471	0.54	1.2	0.09	0.06	1	5
7/5/2004	8:15	7/5/2004 08:15	27.2	6.52	0.1474	0.549	1.1	0.09	0.06	1	5
7/5/2004	8:30	7/5/2004 08:30	27.2	6.61	0.1504	0.531	0.8	0.07	0.07	1	5
7/5/2004	8:45	7/5/2004 08:45	27.24	6.55	0.1502	0.539	0.7	0.05	0.06	1	5
7/5/2004	9:00	7/5/2004 09:00	27.24	6.54	0.1517	0.539	1	0.08	0.07	1	5
7/5/2004	9:15	7/5/2004 09:15	27.27	6.6	0.1524	0.535	0.9	0.07	0.07	1	5
7/5/2004	9:30	7/5/2004 09:30	27.32	6.59	0.1524	0.537	1	0.08	0.07	1	5
7/5/2004	9:45	7/5/2004 09:45	27.34	6.59	0.1527	0.534	1.1	0.08	0.07	1	5
7/5/2004	10:00	7/5/2004 10:00	27.36	6.58	0.1533	0.533	0.6	0.05	0.07	1	5
7/5/2004	10:15	7/5/2004 10:15	27.46	6.55	0.1528	0.534	1	0.08	0.07	1	5
7/5/2004	10:30	7/5/2004 10:30	28.04	6.58	0.1536	0.531	2.6	0.21	0.07	1	5
7/5/2004	10:45	7/5/2004 10:45	27.32	6.58	0.152	0.53	1	0.08	0.07	1	5
7/5/2004	11:00	7/5/2004 11:00	27.42	6.58	0.152	0.529	0.3	0.03	0.07	1	5
7/5/2004	11:15	7/5/2004 11:15	27.61	6.55	0.145	0.528	0.7	0.06	0.06	1	5
7/5/2004	11:30	7/5/2004 11:30	27.41	6.51	0.1372	0.529	0.7	0.05	0.06	1	5
7/5/2004	11:45	7/5/2004 11:45	27.54	6.5	0.1383	0.527	0.4	0.03	0.06	1	5
7/5/2004	12:00	7/5/2004 12:00	27.59	6.54	0.1456	0.527	0.6	0.05	0.06	1	5
7/5/2004	12:15	7/5/2004 12:15	27.66	6.52	0.1394	0.526	0.7	0.06	0.06	1	5
7/5/2004	12:30	7/5/2004 12:30	28.01	6.54	0.1413	0.525	0.8	0.06	0.06	1	5
7/5/2004	12:45	7/5/2004 12:45	28	6.53	0.1408	0.528	0.4	0.03	0.06	1	5
7/5/2004	13:00	7/5/2004 13:00	27.86	6.54	0.145	0.528	0.8	0.06	0.06	1	5
7/5/2004	13:15	7/5/2004 13:15	27.79	6.55	0.1478	0.529	0.7	0.06	0.06	1	5
7/5/2004	13:30	7/5/2004 13:30	27.74	6.55	0.1456	0.531	0.9	0.07	0.06	1	5
7/5/2004	13:45	7/5/2004 13:45	28.06	6.55	0.1464	0.533	0.6	0.05	0.06	1	5
7/5/2004	14:00	7/5/2004 14:00	28.07	6.52	0.1368	0.533	1	0.08	0.06	1	5
7/5/2004	14:15	7/5/2004 14:15	28.18	6.49	0.1327	0.536	0.4	0.03	0.06	1	5
7/5/2004	14:30	7/5/2004 14:30	28.28	6.43	0.1218	0.534	1	0.08	0.05	1	5
7/5/2004	14:45	7/5/2004 14:45	28.38	6.43	0.1263	0.534	0.4	0.03	0.05	1	5

7/5/2004	15:00	7/5/2004	15:00	28.09	6.4	0.1254	0.539	0.8	0.06	0.05	1	5
7/5/2004	15:15	7/5/2004	15:15	28.15	6.45	0.1319	0.535	1.5	0.12	0.06	1	5
7/5/2004	15:30	7/5/2004	15:30	28.15	6.45	0.1323	0.541	0.5	0.04	0.06	1	5
7/5/2004	15:45	7/5/2004	15:45	28.53	6.43	0.1249	0.537	0.3	0.03	0.05	1	5
7/5/2004	16:00	7/5/2004	16:00	28.43	6.43	0.1261	0.538	0.6	0.04	0.05	1	5
7/5/2004	16:15	7/5/2004	16:15	28.93	6.29	0.0962	0.54	0.6	0.04	0.04	1	5
7/5/2004	16:30	7/5/2004	16:30	29.17	6.26	0.0977	0.54	0.7	0.06	0.04	1	5
7/5/2004	16:45	7/5/2004	16:45	28.83	6.26	0.103	0.539	0.4	0.03	0.04	1	5
7/5/2004	17:00	7/5/2004	17:00	28.5	6.33	0.117	0.538	0.4	0.03	0.05	1	5
7/5/2004	17:15	7/5/2004	17:15	28.44	6.41	0.133	0.538	0.5	0.04	0.06	1	5
7/5/2004	17:30	7/5/2004	17:30	28.53	6.39	0.1247	0.536	0.3	0.03	0.05	1	5
7/5/2004	17:45	7/5/2004	17:45	29.08	6.33	0.1049	0.536	0.5	0.04	0.04	1	5
7/5/2004	18:00	7/5/2004	18:00	28.85	6.25	0.0996	0.535	0.7	0.06	0.04	1	5
7/5/2004	18:15	7/5/2004	18:15	28.5	6.32	0.1152	0.537	0.7	0.05	0.05	1	5
7/5/2004	18:30	7/5/2004	18:30	28.43	6.34	0.1178	0.537	0.3	0.03	0.05	1	5
7/5/2004	18:45	7/5/2004	18:45	28.56	6.36	0.1192	0.532	0.4	0.03	0.05	1	5
7/5/2004	19:00	7/5/2004	19:00	29.21	6.32	0.1079	0.535	0.7	0.05	0.04	1	5
7/5/2004	19:15	7/5/2004	19:15	28.92	6.26	0.0993	0.532	0.3	0.03	0.04	1	5
7/5/2004	19:30	7/5/2004	19:30	29.29	6.31	0.1099	0.53	2.1	0.16	0.04	1	5
7/5/2004	19:45	7/5/2004	19:45	28.93	6.3	0.1085	0.534	1.9	0.15	0.04	1	5
7/5/2004	20:00	7/5/2004	20:00	28.54	6.29	0.1101	0.542	0.5	0.04	0.04	1	5
7/5/2004	20:15	7/5/2004	20:15	28.74	6.27	0.1032	0.536	1.3	0.1	0.04	1	5
7/5/2004	20:30	7/5/2004	20:30	28.64	6.28	0.1085	0.542	0.9	0.07	0.04	1	5
7/5/2004	20:45	7/5/2004	20:45	28.5	6.26	0.1007	0.549	0.8	0.06	0.04	1	5
7/5/2004	21:00	7/5/2004	21:00	28.51	6.36	0.1262	0.557	0.7	0.06	0.05	1	5
7/5/2004	21:15	7/5/2004	21:15	28.66	6.35	0.1174	0.541	2.5	0.19	0.05	1	5
7/5/2004	21:30	7/5/2004	21:30	28.62	6.35	0.1163	0.542	4.5	0.35	0.05	1	5
7/5/2004	21:45	7/5/2004	21:45	28.58	6.37	0.12	0.536	3.4	0.26	0.05	1	5
7/5/2004	22:00	7/5/2004	22:00	28.59	6.4	0.1269	0.545	4.9	0.38	0.05	1	5
7/5/2004	22:15	7/5/2004	22:15	28.56	6.41	0.1265	0.541	4.4	0.34	0.05	1	5
7/5/2004	22:30	7/5/2004	22:30	28.53	6.42	0.1281	0.544	2.6	0.2	0.05	1	5
7/5/2004	22:45	7/5/2004	22:45	28.52	6.43	0.129	0.552	3.1	0.24	0.05	1	5
7/5/2004	23:00	7/5/2004	23:00	28.51	6.44	0.131	0.548	4.7	0.36	0.05	1	5

7/5/2004	23:15	7/5/2004	23:15	28.49	6.45	0.1342	0.549	5.8	0.45	0.06	1	5
7/5/2004	23:30	7/5/2004	23:30	28.51	6.45	0.1337	0.546	5.2	0.4	0.06	1	5
7/5/2004	23:45	7/5/2004	23:45	28.5	6.46	0.1341	0.549	4.7	0.36	0.06	1	5
7/6/2004	0:00	7/6/2004	00:00	28.48	6.46	0.1325	0.554	4.9	0.38	0.06	1	5
7/6/2004	0:15	7/6/2004	00:15	28.45	6.45	0.1329	0.549	4	0.31	0.06	1	5
7/6/2004	0:30	7/6/2004	00:30	28.46	6.47	0.1341	0.552	5.4	0.42	0.06	1	5
7/6/2004	0:45	7/6/2004	00:45	28.45	6.47	0.1342	0.548	5.2	0.4	0.06	1	5
7/6/2004	1:00	7/6/2004	01:00	28.44	6.47	0.135	0.551	5.8	0.45	0.06	1	5
7/6/2004	1:15	7/6/2004	01:15	28.45	6.48	0.1354	0.55	5.8	0.45	0.06	1	5
7/6/2004	1:30	7/6/2004	01:30	28.45	6.48	0.1355	0.543	6.4	0.5	0.06	1	5
7/6/2004	1:45	7/6/2004	01:45	28.44	6.48	0.136	0.551	7	0.54	0.06	1	5
7/6/2004	2:00	7/6/2004	02:00	28.44	6.49	0.1368	0.553	6.7	0.52	0.06	1	5
7/6/2004	2:15	7/6/2004	02:15	28.45	6.49	0.1375	0.553	7.5	0.58	0.06	1	5
7/6/2004	2:30	7/6/2004	02:30	28.44	6.49	0.138	0.555	6.9	0.54	0.06	1	5
7/6/2004	2:45	7/6/2004	02:45	28.41	6.5	0.136	0.553	4.8	0.37	0.06	1	5
7/6/2004	3:00	7/6/2004	03:00	28.4	6.49	0.1367	0.559	3.2	0.25	0.06	1	5
7/6/2004	3:15	7/6/2004	03:15	28.38	6.49	0.1368	0.551	6.1	0.47	0.06	1	5
7/6/2004	3:30	7/6/2004	03:30	28.36	6.5	0.1383	0.552	7.2	0.56	0.06	1	5
7/6/2004	3:45	7/6/2004	03:45	28.36	6.5	0.1386	0.551	6.8	0.53	0.06	1	5
7/6/2004	4:00	7/6/2004	04:00	28.35	6.51	0.1408	0.551	7.7	0.6	0.06	1	5
7/6/2004	4:15	7/6/2004	04:15	28.35	6.51	0.1416	0.55	7.2	0.56	0.06	1	5
7/6/2004	4:30	7/6/2004	04:30	28.33	6.51	0.1423	0.549	7.4	0.58	0.06	1	5
7/6/2004	4:45	7/6/2004	04:45	28.33	6.53	0.1447	0.549	8.4	0.65	0.06	1	5
7/6/2004	5:00	7/6/2004	05:00	28.31	6.54	0.1461	0.548	8.6	0.67	0.06	1	5
7/6/2004	5:15	7/6/2004	05:15	28.29	6.54	0.1472	0.547	8	0.62	0.06	1	5
7/6/2004	5:30	7/6/2004	05:30	28.27	6.55	0.1493	0.547	8.7	0.68	0.06	1	5
7/6/2004	5:45	7/6/2004	05:45	28.25	6.56	0.1502	0.545	8.4	0.65	0.06	1	5
7/6/2004	6:00	7/6/2004	06:00	28.23	6.56	0.1515	0.542	8.3	0.65	0.07	1	5
7/6/2004	6:15	7/6/2004	06:15	28.21	6.55	0.1504	0.553	8.2	0.64	0.07	1	5
7/6/2004	6:30	7/6/2004	06:30	28.18	6.55	0.1505	0.54	7.4	0.58	0.07	1	5
7/6/2004	6:45	7/6/2004	06:45	28.17	6.57	0.1539	0.543	9.3	0.73	0.07	1	5
7/6/2004	7:00	7/6/2004	07:00	28.16	6.57	0.155	0.544	8.7	0.68	0.07	1	5
7/6/2004	7:15	7/6/2004	07:15	28.14	6.58	0.1551	0.541	8.2	0.64	0.07	1	5

7/6/2004	7:30	7/6/2004	07:30	28.14	6.58	0.157	0.542	9.1	0.71	0.07	1	5
7/6/2004	7:45	7/6/2004	07:45	28.15	6.59	0.1576	0.543	9.5	0.74	0.07	1	5
7/6/2004	8:00	7/6/2004	08:00	28.16	6.6	0.1583	0.542	9.1	0.71	0.07	1	5
7/6/2004	8:15	7/6/2004	08:15	28.19	6.59	0.1582	0.553	7.1	0.55	0.07	1	5
7/6/2004	8:30	7/6/2004	08:30	28.2	6.6	0.1589	0.543	8.7	0.67	0.07	1	5
7/6/2004	8:45	7/6/2004	08:45	28.24	6.6	0.1587	0.544	8.3	0.65	0.07	1	5
7/6/2004	9:00	7/6/2004	09:00	28.32	6.6	0.1604	0.539	10	0.78	0.07	1	5
7/6/2004	9:15	7/6/2004	09:15	28.39	6.62	0.1621	0.539	11.4	0.88	0.07	1	5
7/6/2004	9:30	7/6/2004	09:30	28.48	6.63	0.1665	0.539	11.5	0.89	0.07	1	5
7/6/2004	9:45	7/6/2004	09:45	28.6	6.63	0.1644	0.537	12.4	0.96	0.07	1	5
7/6/2004	10:00	7/6/2004	10:00	28.6	6.63	0.1639	0.535	11.5	0.89	0.07	1	5
7/6/2004	10:15	7/6/2004	10:15	28.7	6.64	0.1682	0.53	14.7	1.13	0.07	1	5
7/6/2004	10:30	7/6/2004	10:30	28.69	6.64	0.1664	0.535	12.8	0.99	0.07	1	5
7/6/2004	10:45	7/6/2004	10:45	28.83	6.64	0.1674	0.536	14.1	1.09	0.07	1	5
7/6/2004	11:00	7/6/2004	11:00	28.91	6.64	0.1683	0.532	16.7	1.29	0.07	1	5
7/6/2004	11:15	7/6/2004	11:15	29.05	6.65	0.1691	0.53	16.3	1.25	0.08	1	5
7/6/2004	11:30	7/6/2004	11:30	29.23	6.65	0.1675	0.527	16.5	1.27	0.07	1	5
7/6/2004	11:45	7/6/2004	11:45	29.22	6.65	0.169	0.528	16.7	1.28	0.08	1	5
7/6/2004	12:00	7/6/2004	12:00	29.55	6.68	0.173	0.532	19.6	1.49	0.08	1	5
7/6/2004	12:15	7/6/2004	12:15	28.92	6.62	0.1599	0.531	11.5	0.89	0.07	1	5

Site Number: BFOL-03 Site Name: Bayou Folse 0.5 mi below Theriot Canal
Subsegment #: 120302 Date: 6/29/2004

	Temp deg C	pH	SpCond uS/cm	Depth	DO %	DO mg/L
Minimum	25.13	6.25	0.09	0.52	0.30	0.03
Maximum	29.55	6.89	0.23	0.62	40.70	3.36
Average	26.82	6.67	0.16	0.57	11.54	0.93
25th Percentile	26.11	6.62	0.13	0.55	5.90	0.47
30th Percentile	26.31	6.63	0.14	0.55	6.70	0.53
40th Percentile	26.47	6.65	0.15	0.56	7.70	0.62
50th Percentile	26.59	6.67	0.16	0.57	8.70	0.69
Standard Deviation	0.95	0.12	0.04	0.02	9.75	0.80
Variance	0.91	0.02	0.00	0.00	95.02	0.64

Data Row Count	677
Total Values Failing DO Criteria	677
Percent failing DO Criteria	100.00 %

Appendix F5 – BOD Calculations

Bayou Folse/Cutoff BOD Summary

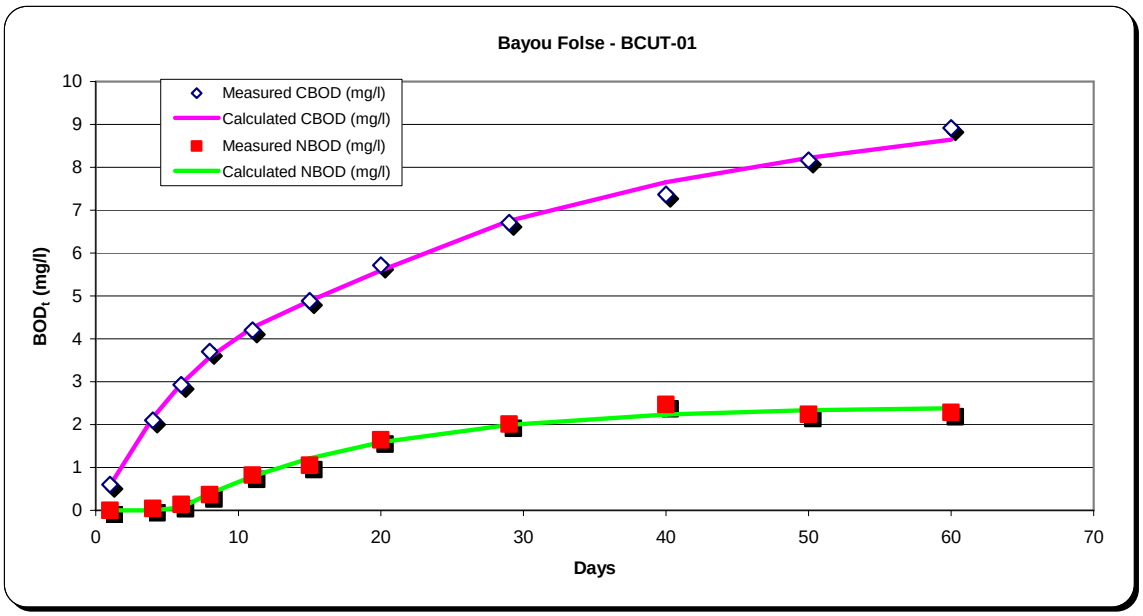
Site ID	CBOD1			CBOD2			NBOD		
	UBOD (mg/l)	k rate (1/day)	Lag time (days)	UBOD (mg/l)	k rate (1/day)	Lag time (days)	UBOD (mg/l)	k rate (1/day)	Lag time (days)
Bayou Folse - BCUT-01	5.919	0.117	0.122	4.228	0.024	17.506	2.425	0.074	5.590
Bayou Folse - BCUT-02	6.601	0.145	0.000	4.461	0.026	17.197	2.752	0.087	4.618
Bayou Folse - BCUT-03	6.360	0.129	0.170	4.307	0.031	23.060	2.956	0.087	3.500
Bayou Folse - BCUT-04	5.797	0.115	0.292	4.849	0.030	23.126	1.869	0.104	4.667
Bayou Folse - BFOL-03	5.336	0.092	0.243	2.835	0.038	25.167	1.744	0.101	4.910
Bayou Folse - BFOL-02	8.386	0.132	0.000	4.874	0.031	22.589	2.533	0.098	7.340
Bayou Folse - BFOL-01	7.543	0.117	0.194	3.956	0.032	24.193	1.757	0.116	9.062
Bayou Folse - CC-01	14.237	0.116	0.146	3.602	0.033	25.167	3.027	0.087	8.653
Bayou Folse - CC-02	16.889	0.129	0.502	3.662	0.039	25.167	4.128	0.087	7.924
Bayou Folse - AC-01	6.611	0.097	0.000	1.944	0.033	25.167	3.321	0.092	5.104

AVERAGE	0.118	0.031	0.093

Select Site to Graph:

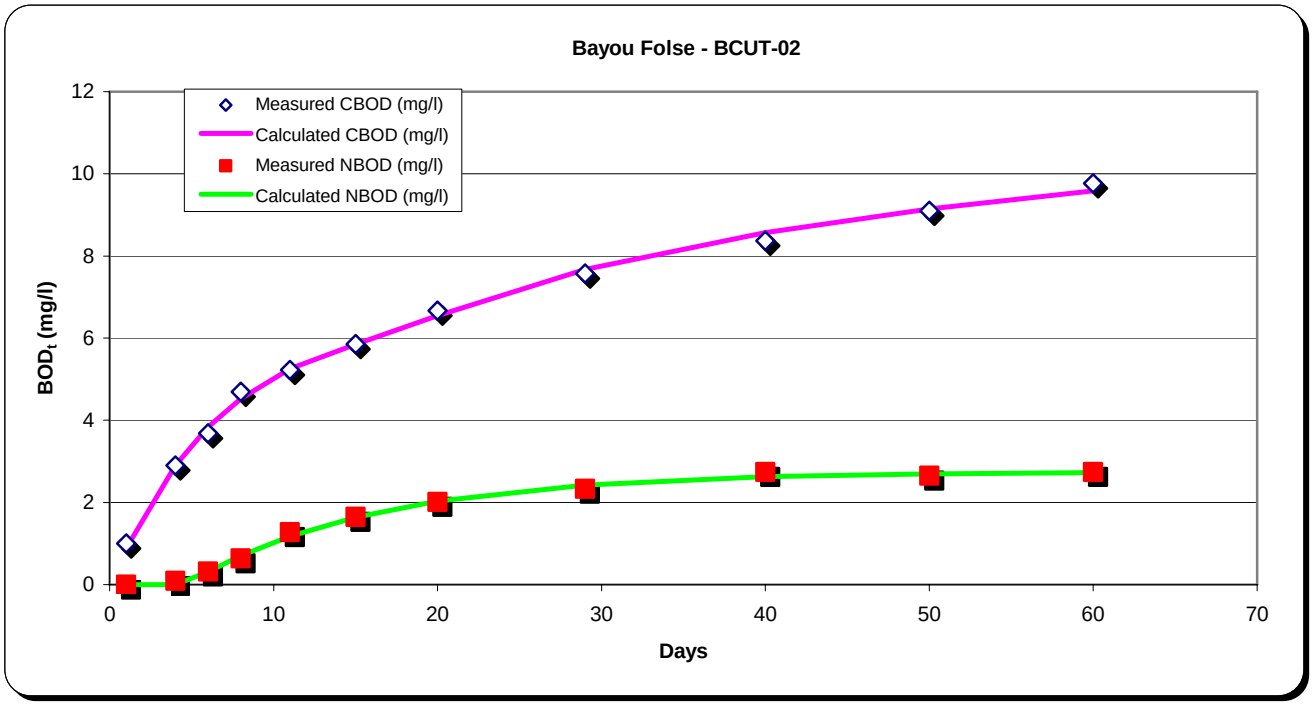
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.43	5.92	4.23
k rate (1/day)	0.074	0.117	0.024
Lag time (days)	5.59	0.12	17.51

Breakpoint: 11th day



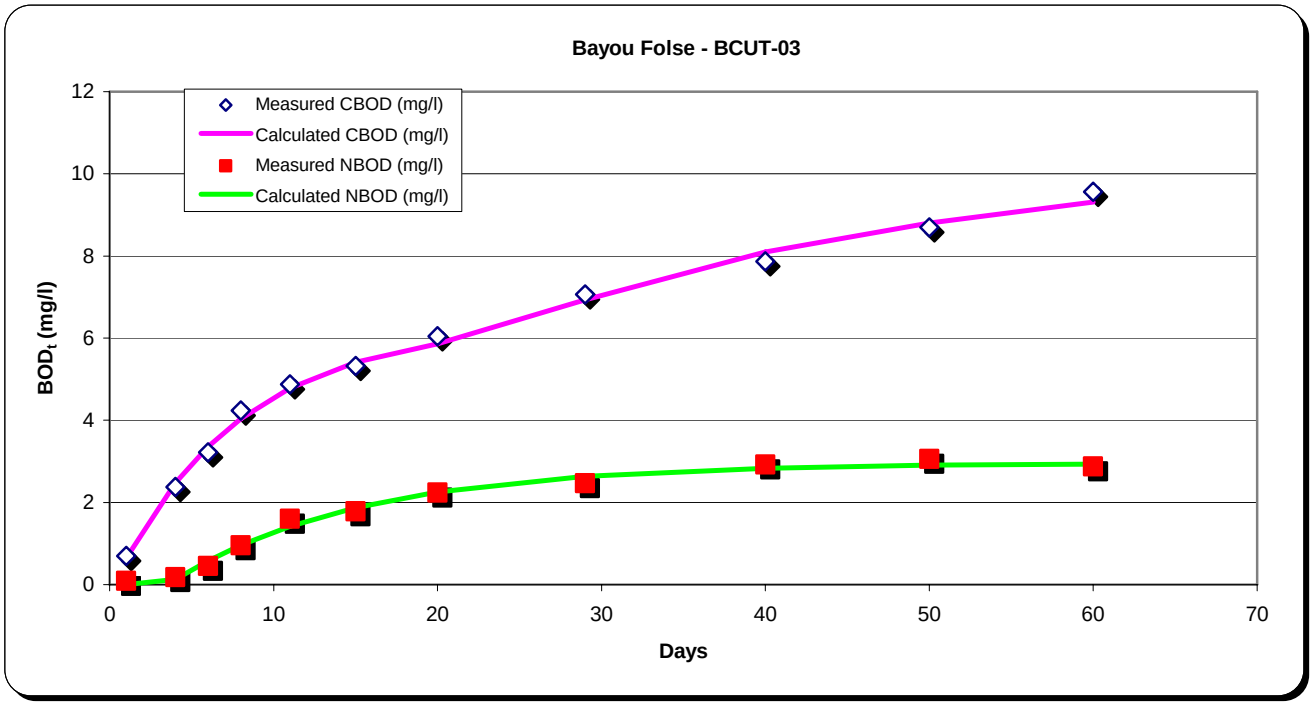
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.75	6.60	4.46
k rate (1/day)	0.087	0.145	0.026
Lag time (days)	4.62	0.00	17.20

Breakpoint: 11th day



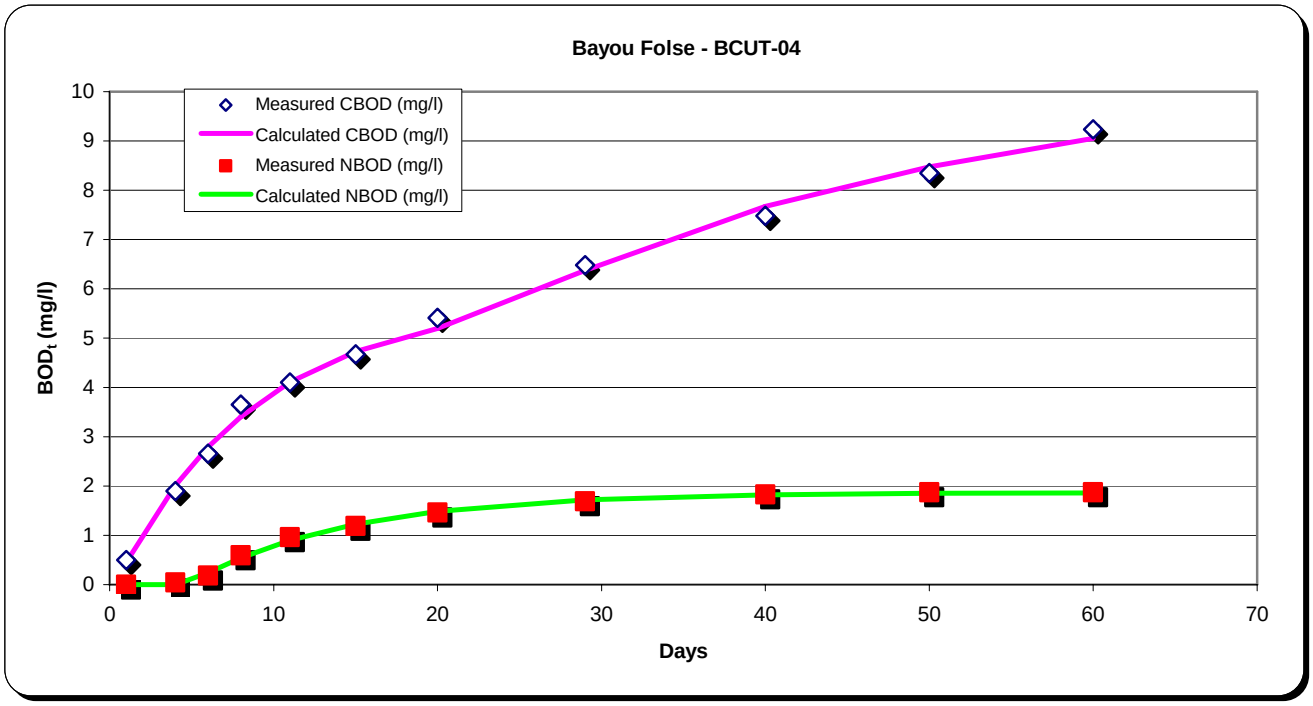
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.96	6.36	4.31
k rate (1/day)	0.087	0.129	0.031
Lag time (days)	3.50	0.17	23.06

Breakpoint: 15th day



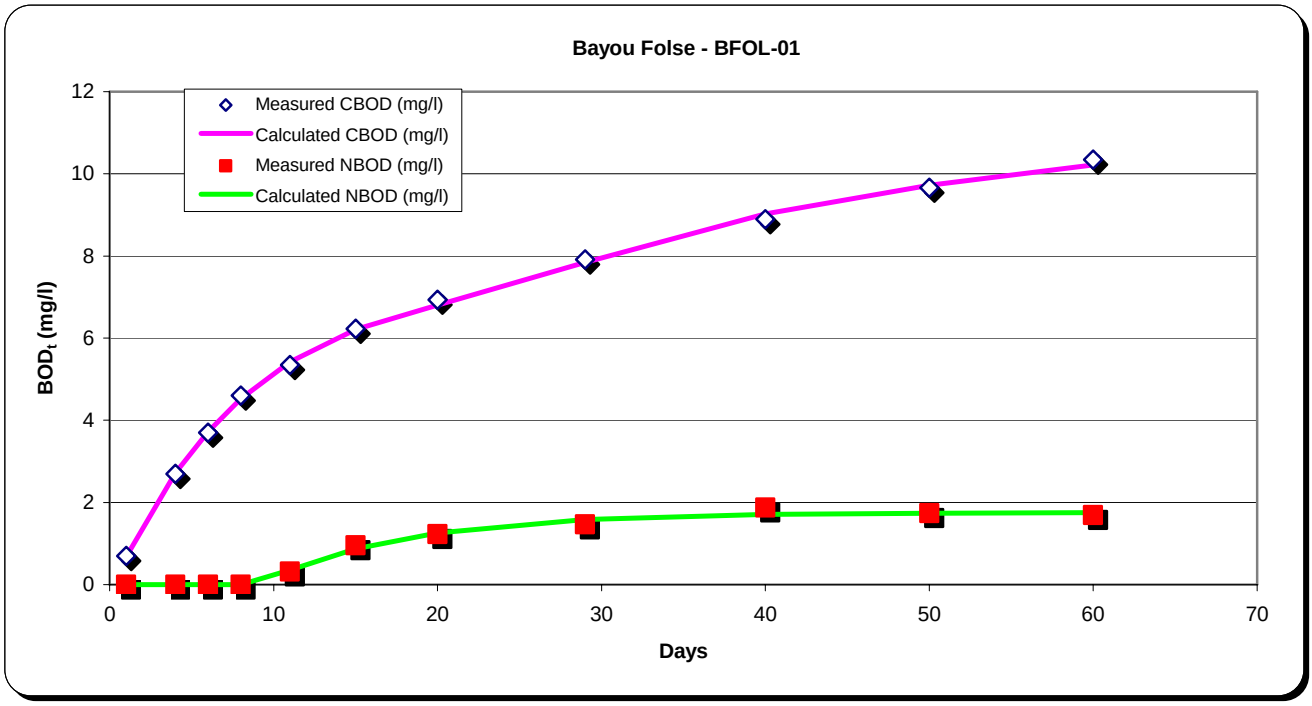
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	1.87	5.80	4.85
k rate (1/day)	0.104	0.115	0.030
Lag time (days)	4.67	0.29	23.13

Breakpoint: 15th day



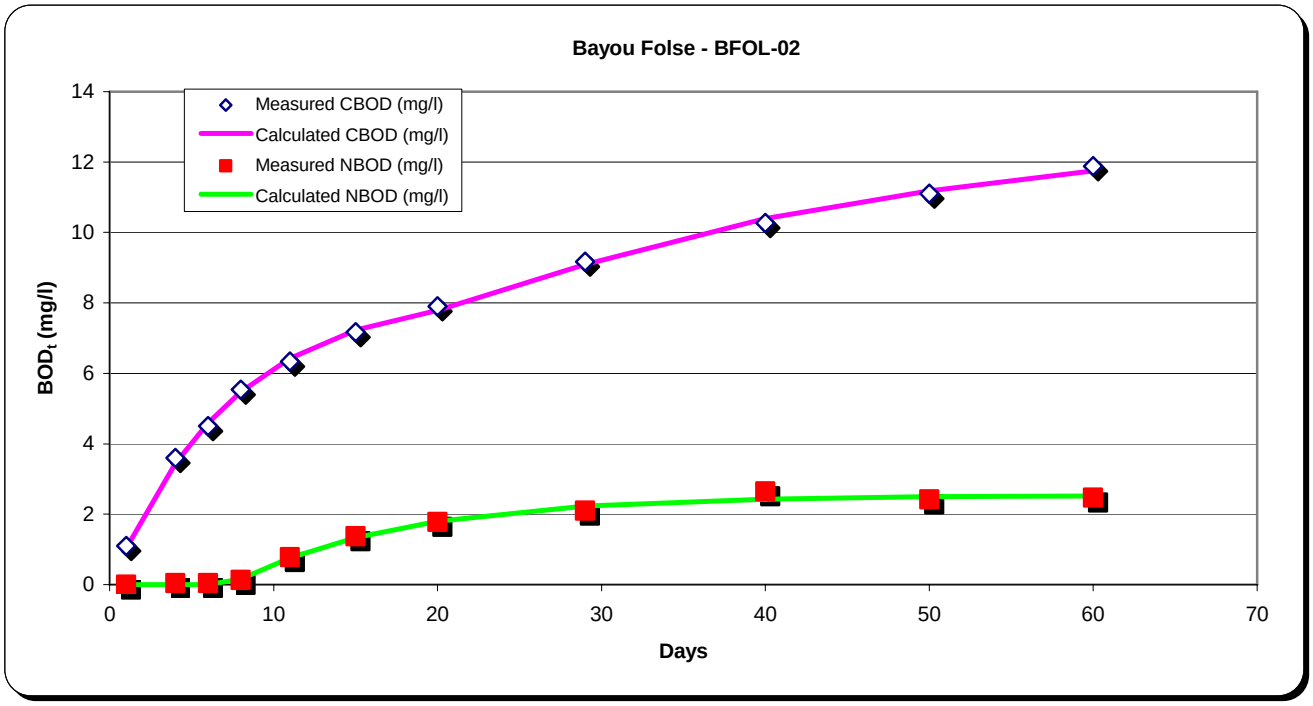
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	1.76	7.54	3.96
k rate (1/day)	0.116	0.117	0.032
Lag time (days)	9.06	0.19	24.19

Breakpoint: 15th day



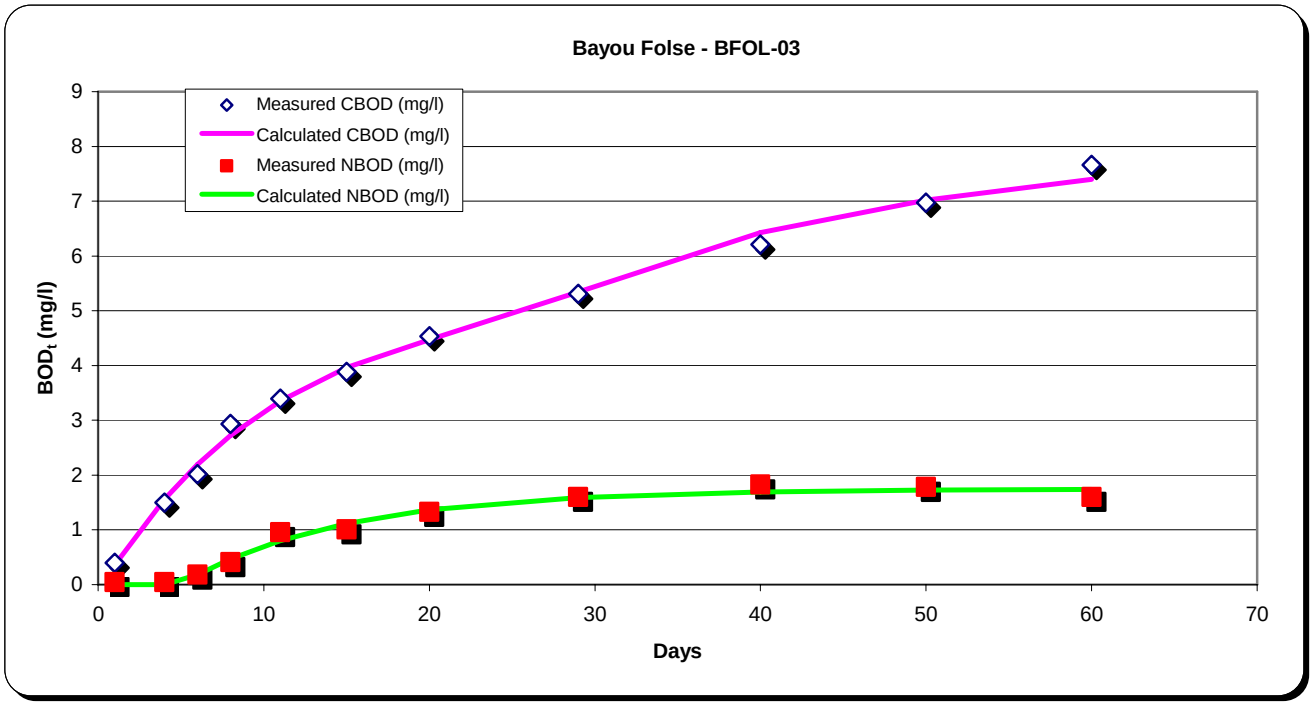
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.53	8.39	4.87
k rate (1/day)	0.098	0.132	0.031
Lag time (days)	7.34	0.00	22.59

Breakpoint: 20th day



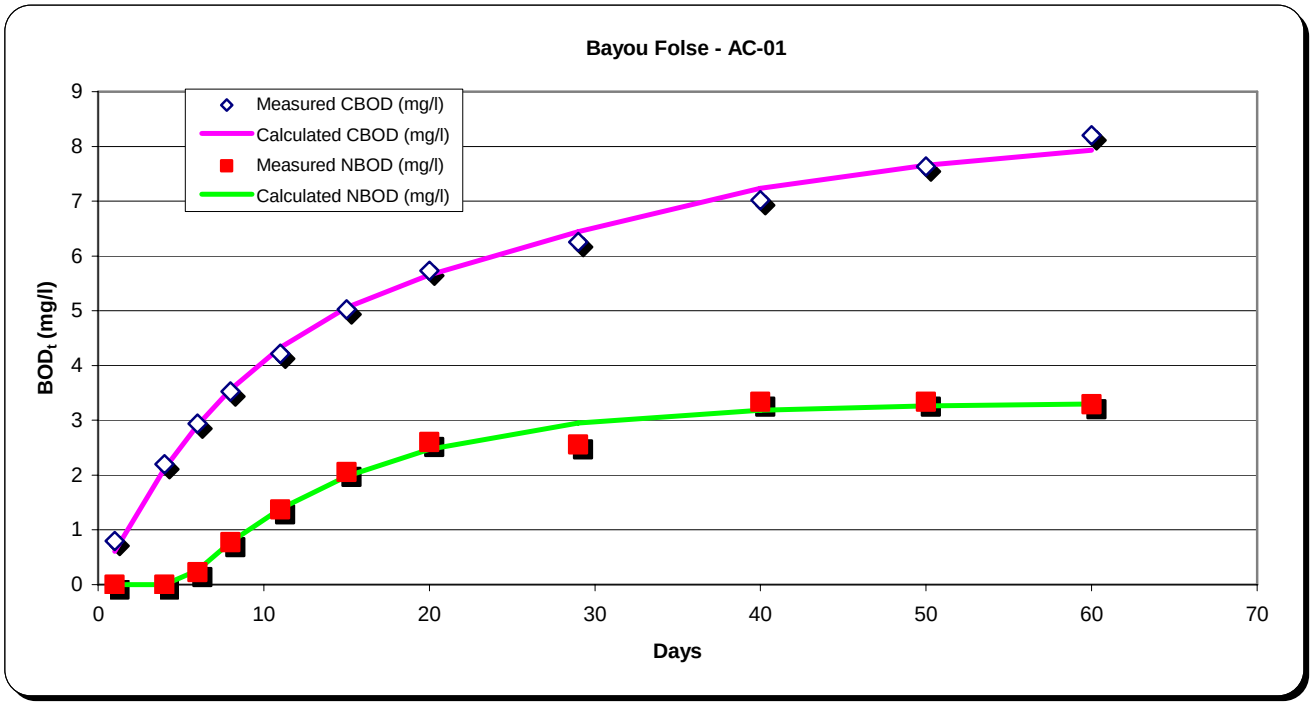
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	1.74	5.34	2.84
k rate (1/day)	0.101	0.092	0.038
Lag time (days)	4.91	0.24	25.17

Breakpoint: 15th day



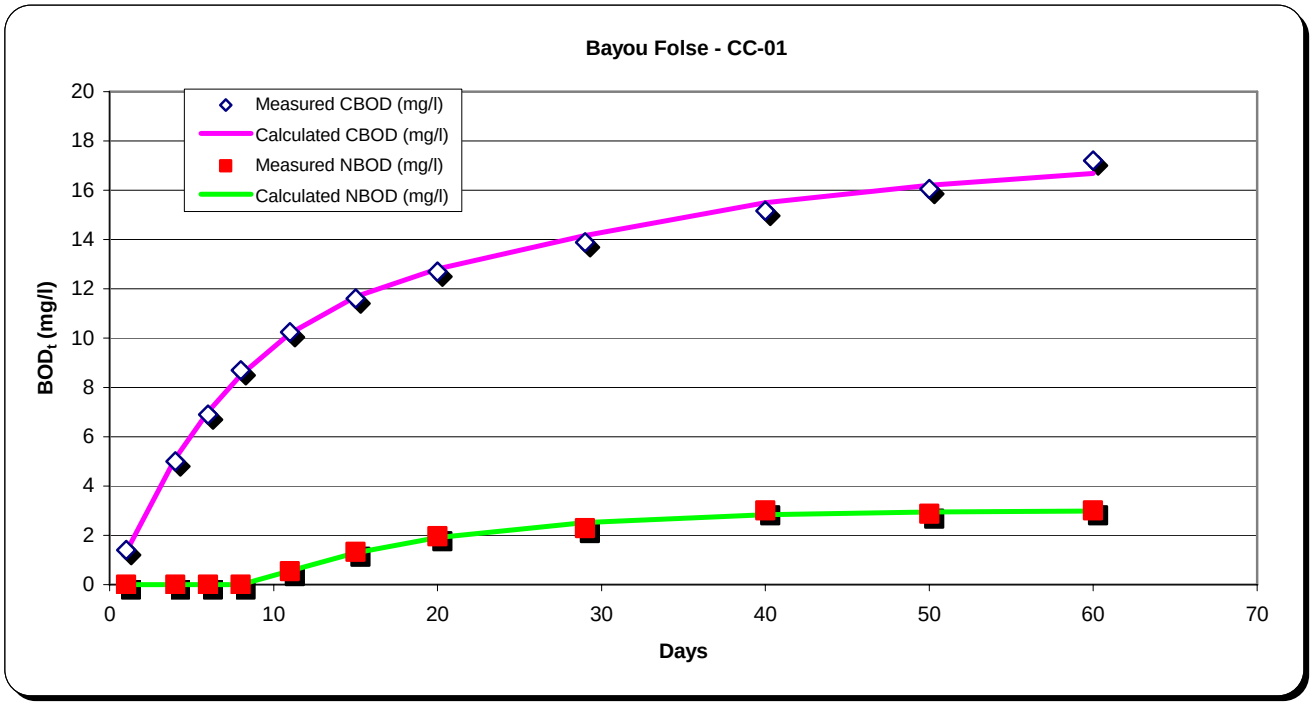
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	3.32	6.61	1.94
k rate (1/day)	0.092	0.097	0.033
Lag time (days)	5.10	0.00	25.17

Breakpoint: 20th day



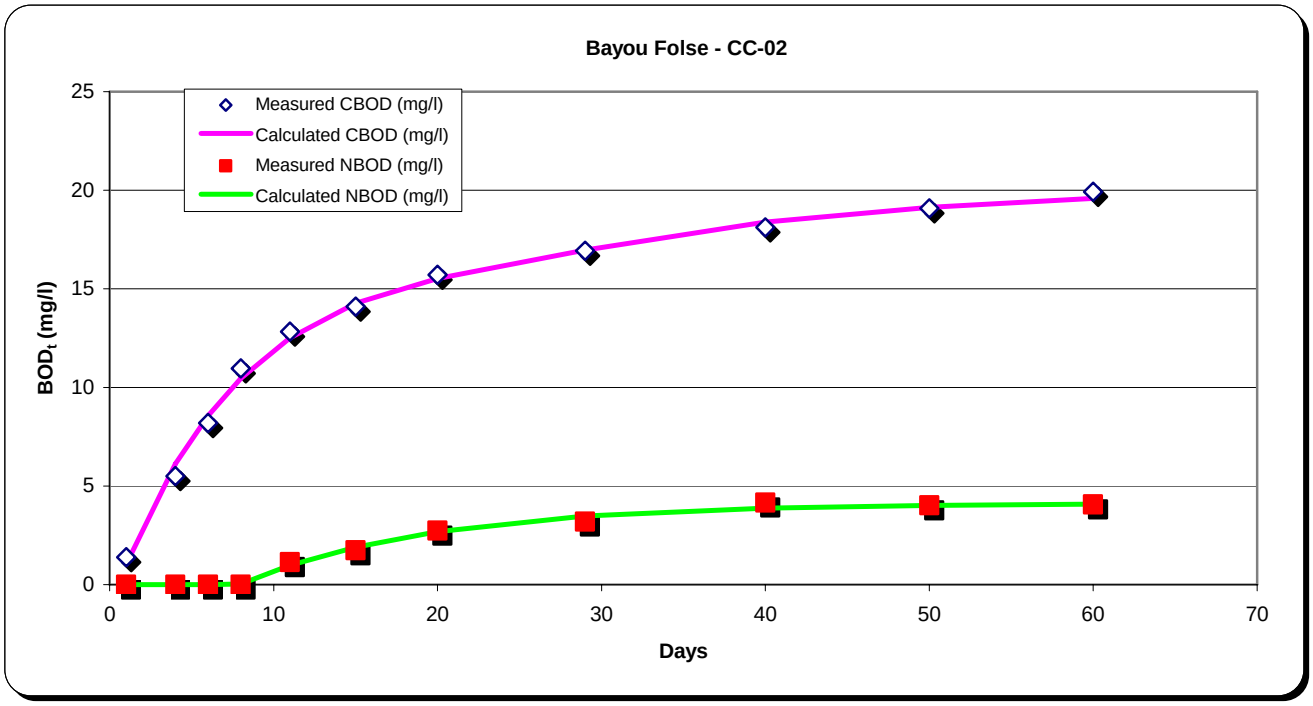
	NBOD	CBOD1	CBOD2
UBOD (mg/l)	3.03	14.24	3.60
k rate (1/day)	0.087	0.116	0.033
Lag time (days)	8.65	0.15	25.17

Breakpoint: 15th day

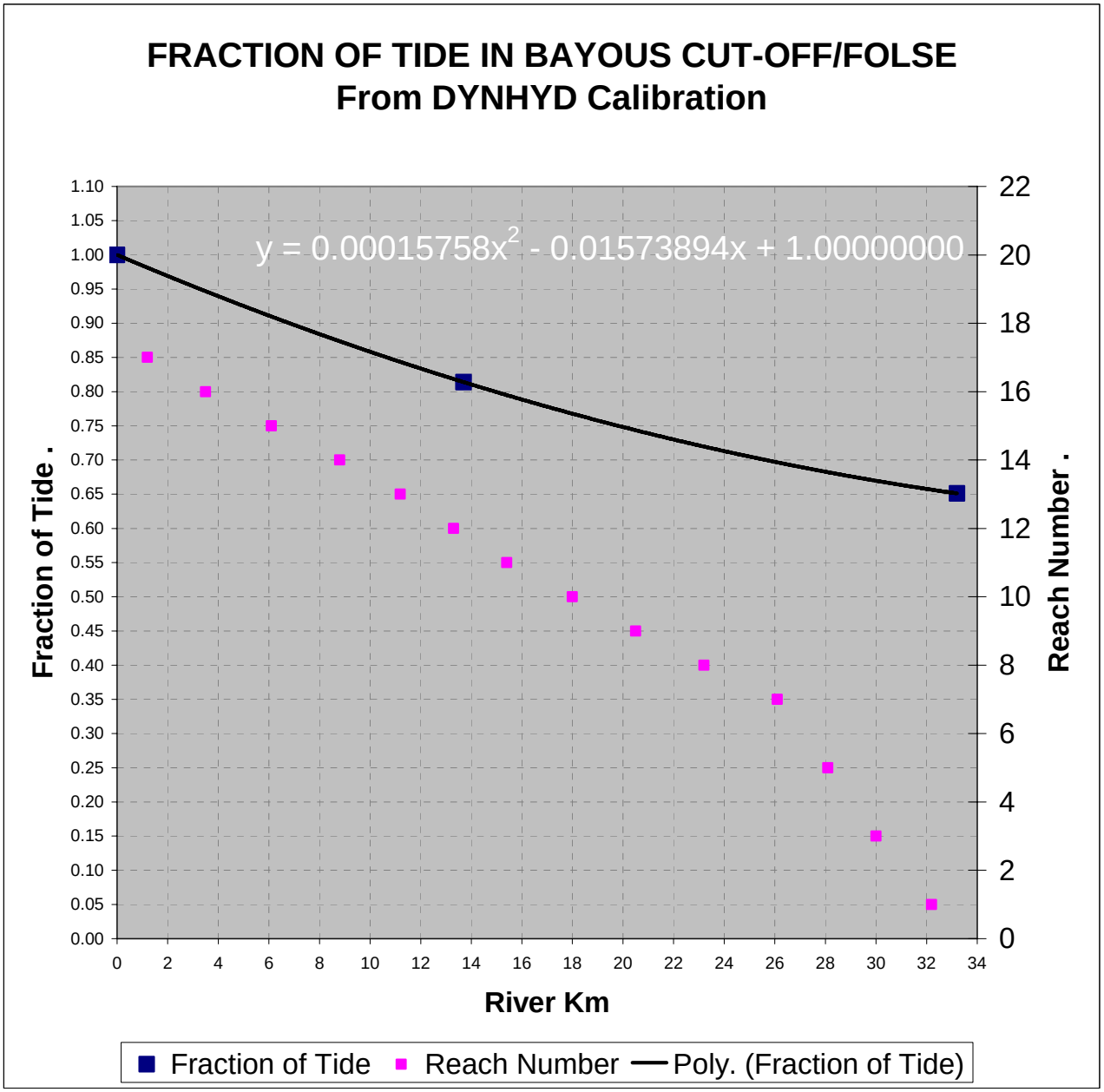


	NBOD	CBOD1	CBOD2
UBOD (mg/l)	4.13	16.89	3.66
k rate (1/day)	0.087	0.129	0.039
Lag time (days)	7.92	0.50	25.17

Breakpoint: 15th day



Appendix F6 – Dispersion Calculations


FRACTION OF TIDE IN BAYOUS CUT-OFF/FOLSE
From DYNHYD Calibration
y = 0.00015758x2 - 0.01573894x + 1.00000000
Fraction of Tide .
Reach Number .
River Km
Fraction of Tide
Reach Number
Poly. (Fraction of Tide)

BAYOU CUTOFF - BAYOU FOLSE				
RKM	Tidal Amplitude (m)	Fract of Tide	Middle of Reach	Tidal Fract from Curve Fit
32.2			1	0.657
31.2	Dugas Ditch			0.662
30.0			3	0.670
29.9	Arpent Canal			0.670
28.1			5	0.682
27.6	Thoroughbred Ditch			0.686
26.1			7	0.697
23.2			8	0.720
20.5			9	0.744
18.0			10	0.768
15.4			11	0.795
13.3			12	0.819
11.2			13	0.843
8.8			14	0.874
6.1			15	0.910
3.5			16	0.947
1.2			17	0.981
0.0	0.043	1		1.000

Bayou Folse Cross Section Summary

SITE	WIDTH (feet)	WIDTH (meters)	DEPTH (feet)	DEPTH (meters)
BLB DYE DUMP XS	84.000	25.603	4.881	1.488
BLB RUN 1 XS 1	82.000	24.994	5.180	1.579
BLB RUN 1 XS 2	76.000	23.165	5.178	1.578
BLB RUN 1 XS 3	72.000	21.946	5.491	1.674
Dye Run 1	78.500	23.927	5.182	1.580

Bayou Folse Dye Arc Table Calculations

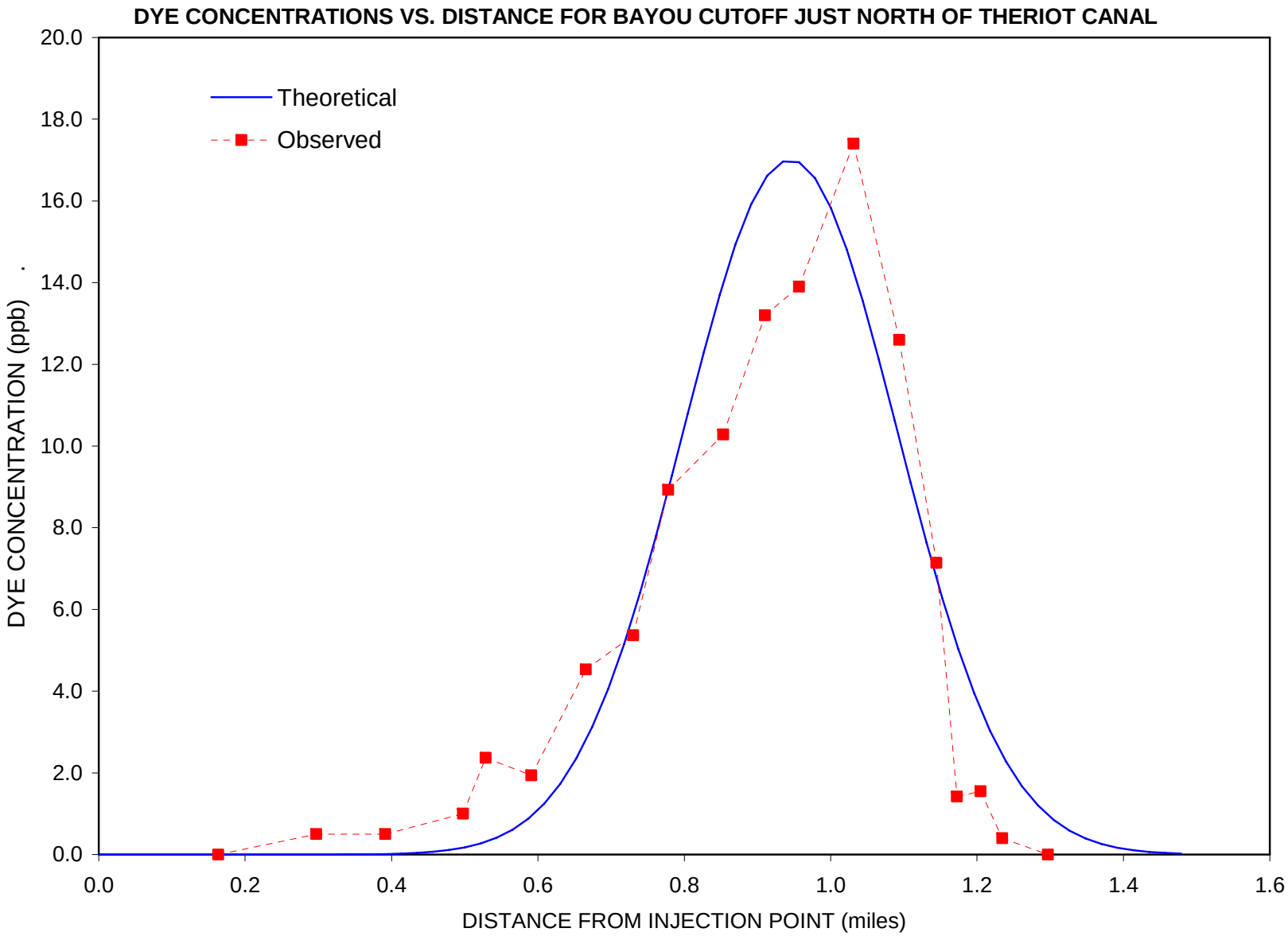
Y	X	RUN	Value	Kilometers Distance from Dye Dump	Meters Distance from Dye Dump	Date + Time	Run - Dump	PROJECTION	ZONE
3290348	720926	DUMP				6/30/04 9:29		NAD 83 CONUS	Zone 15 North
3289706	722904	r1 01	0.0	2.09	2087.00	6/30/04 14:29	0.207813	NAD 83 CONUS	Zone 15 North
3289727	722806	r1 02	0.4	1.99	1987.00	6/30/04 14:32	0.210394	NAD 83 CONUS	Zone 15 North
3289740	722760	r1 03	1.5	1.94	1939.00	6/30/04 14:34	0.211620	NAD 83 CONUS	Zone 15 North
3289748	722709	r1 04	1.4	1.89	1887.00	6/30/04 14:36	0.212616	NAD 83 CONUS	Zone 15 North
3289759	722667	r1 04	7.1	1.84	1842.00	6/30/04 14:37	0.213657	NAD 83 CONUS	Zone 15 North
3289778	722587	r1 06	12.6	1.76	1760.00	6/30/04 14:39	0.214757	NAD 83 CONUS	Zone 15 North
3289803	722491	r1 07	17.4	1.66	1660.00	6/30/04 14:40	0.216007	NAD 83 CONUS	Zone 15 North
3289844	722379	r1 08	13.9	1.54	1540.00	6/30/04 14:46	0.220081	NAD 83 CONUS	Zone 15 North
3289875	722310	r1 09	13.2	1.47	1465.00	6/30/04 14:48	0.221250	NAD 83 CONUS	Zone 15 North
3289909	722224	r1 10	10.3	1.37	1373.00	6/30/04 14:50	0.222546	NAD 83 CONUS	Zone 15 North
3289955	722111	r1 11	8.9	1.25	1252.00	6/30/04 14:52	0.224144	NAD 83 CONUS	Zone 15 North
3289973	722037	r1 12	5.4	1.18	1175.00	6/30/04 14:54	0.225301	NAD 83 CONUS	Zone 15 North
3289983	721933	r1 13	4.5	1.07	1071.00	6/30/04 14:56	0.226956	NAD 83 CONUS	Zone 15 North
3290025	721820	r1 14	1.9	0.95	951.00	6/30/04 14:58	0.228356	NAD 83 CONUS	Zone 15 North
3290062	721727	r1 15	2.4	0.85	851.00	6/30/04 15:00	0.229826	NAD 83 CONUS	Zone 15 North
3290082	721681	r1 16	1.0	0.80	801.00	6/30/04 15:02	0.230787	NAD 83 CONUS	Zone 15 North
3290143	721521	r1 17	0.5	0.63	630.00	6/30/04 15:05	0.233021	NAD 83 CONUS	Zone 15 North
3290194	721378	r1 18	0.5	0.48	478.00	6/30/04 15:08	0.234792	NAD 83 CONUS	Zone 15 North
3290259	721173	r1 bg	0.0	0.26	263.00	6/30/04 15:12	0.237546	NAD 83 CONUS	Zone 15 North
						Dye Run 1			
						Average Time	0.222183		
						Average Time in Hours	5.332383		
						Average Time in Seconds	**19196.578947**		

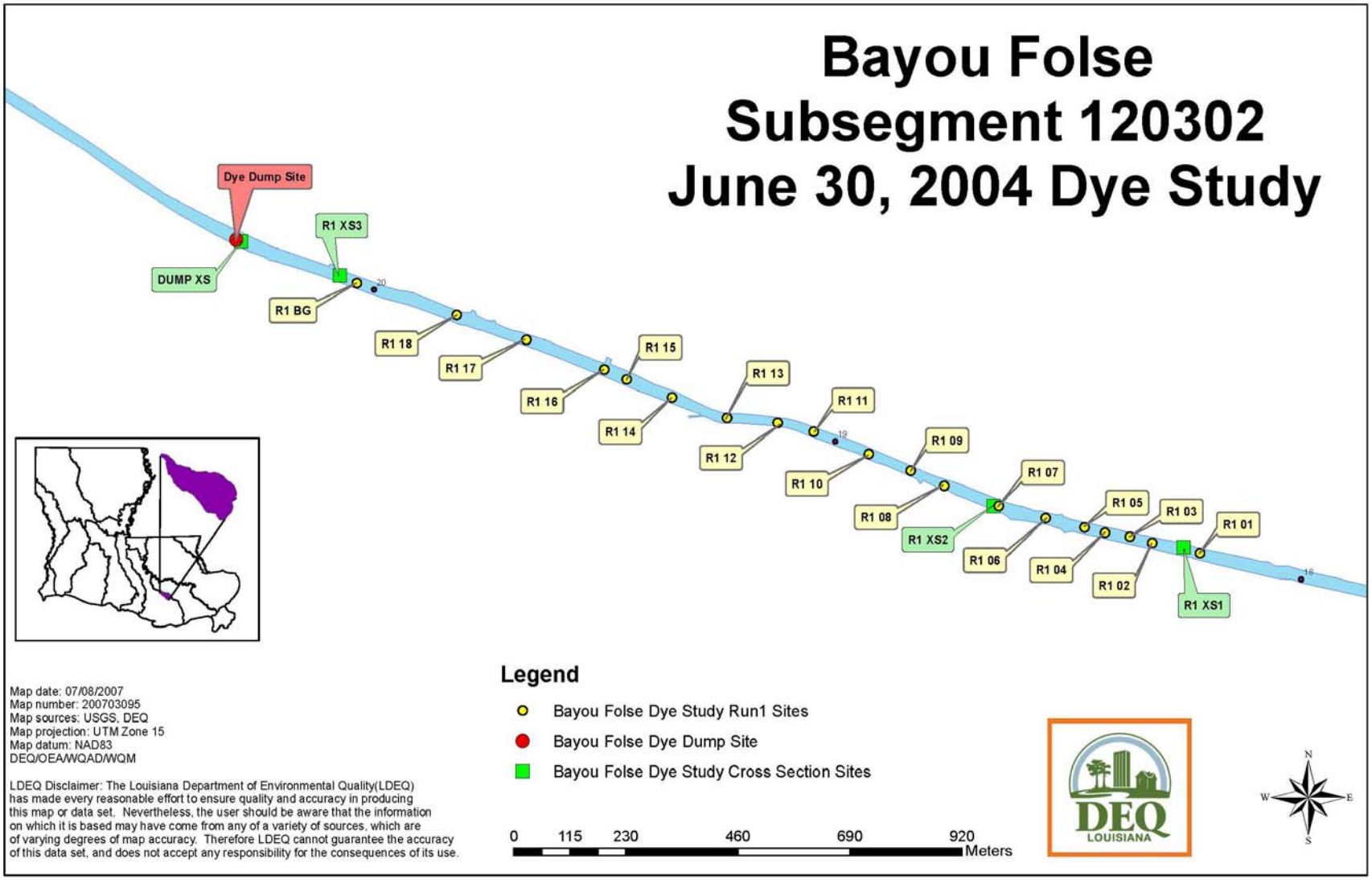
TITLE: DYE CONCENTRATIONS VS. DISTANCE FOR BAYOU CUTOFF JUST NORTH OF THERIOT CANAL
ASSUMES 1-D ANALYSIS (LATERALLY AND VERTICALLY MIXED) OF SLUG INJECTION
COMPARES THEORETICAL WITH FIELD DATA
PHM 9-11-02 (revised 5-28-03, 10-17-06 RKD)
DATA INPUT CELLS

AVG FLOW =	48.8	cfs (calculated)
MEAN VELOCITY =	0.12	ft/sec (composite of adjective and tidal velocity - vary to adjust width of predicted curve)
AVG XS AREA =	407	ft^2 (calculated)
AVG DEPTH =	5.2	ft (average of measured XS's)
AVG WIDTH =	78.5	ft (average of measured XS's)
ELAPSED TIME =	5.33	hr (approx elapsed time from injection to dye run)
INJECT. MASS =	4.42	lbs stock solution (20% dye)
ADV VELOCITY =	0.2600	ft/sec (adjust to get predicted and observed data lined up horizontally)

PREDICTED MAXIMUM DYE CONCENTRATION =	17.90	ppb	(1-D advective dispersion equation)
ADJUSTMENT FACTOR FOR DYE LOSS =	0.95		(chlorine, adsorption, photodegradation)
ADJUSTED MAXIMUM DYE CONCENTRATION =	17.00	ppb	(after applying dye loss factor)

LONGITUDINAL DISPERSION COEFFICIENT =	15.7	ft^2/sec	(eqn. 5.19 from Fischer et al, 1979)
ADJUSTMENT FACTOR FOR DISPERSION =	1		("calibration" factor - 1.00 yields Fischer theoretical dispersion)
ADJUSTED LONGITUDINAL DISPERS. COEFF. =	15.7	ft^2/sec	(after applying adjustment factor)
=	1.46	m^2/sec	(converted to metric)


DYE CONCENTRATIONS VS. DISTANCE FOR BAYOU CUTOFF JUST NORTH OF THERIOT CANAL
Theoretical
Observed
DYE CONCENTRATION (ppb)
DISTANCE FROM INJECTION POINT (miles)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6


Bayou Folse
Subsegment 120302
June 30, 2004 Dye Study
Dye Dump Site
DUMP XS
R1 XS3
R1 BG
R1 18
R1 17
R1 16
R1 15
R1 14
R1 13
R1 12
R1 11
R1 10
R1 09
R1 08
R1 07
R1 XS2
R1 06
R1 05
R1 04
R1 03
R1 02
R1 01
R1 XS1
Legend
Bayou Folse Dye Study Run1 Sites
Bayou Folse Dye Dump Site
Bayou Folse Dye Study Cross Section Sites
0 115 230 460 690 920
Meters
Map date: 07/08/2007
Map number: 200703095
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.
DEQ
LOUISIANA
N
W
E
S

STREAM CROSS-SECTION SPREADSHEET

Site Number: Folse Dye Dump **Subsegment:** 120302 **Waterbody:** Bayou Cutoff

Site Description:

Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual

Initial Bank: ☐ RDB ☑ LDB

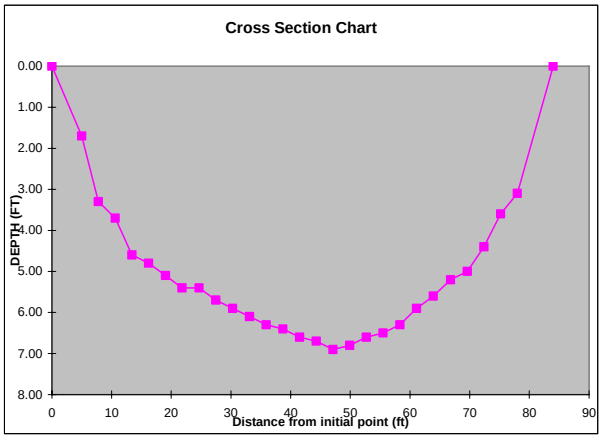
Tapedown:

Guage Height:

Date: 7/1/2004

WIDTH[1] (ft):	84.00
AREA[2] (ft[2]):	409.97
AVG. DEPTH[3](ft):	4.88

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	2.50	0.00	0.00	
2	5.0	3.90	1.70	6.63	1.62%
3	7.8	2.80	3.30	9.24	2.25%
4	10.6	2.80	3.70	10.36	2.53%
5	13.4	2.80	4.60	12.88	3.14%
6	16.2	2.82	4.80	13.52	3.30%
7	19.0	2.80	5.10	14.28	3.48%
8	21.8	2.81	5.40	15.16	3.70%
9	24.6	2.83	5.40	15.27	3.72%
10	27.5	2.83	5.70	16.11	3.93%
11	30.3	2.82	5.90	16.65	4.06%
12	33.1	2.80	6.10	17.08	4.17%
13	35.9	2.80	6.30	17.64	4.30%
14	38.7	2.80	6.40	17.92	4.37%
15	41.5	2.80	6.60	18.48	4.51%
16	44.3	2.80	6.70	18.76	4.58%
17	47.1	2.80	6.90	19.32	4.71%
18	49.9	2.80	6.80	19.04	4.64%
19	52.7	2.80	6.60	18.48	4.51%
20	55.5	2.80	6.50	18.20	4.44%
21	58.3	2.80	6.30	17.64	4.30%
22	61.1	2.80	5.90	16.52	4.03%
23	63.9	2.85	5.60	15.96	3.89%
24	66.8	2.85	5.20	14.82	3.61%
25	69.6	2.80	5.00	14.00	3.41%
26	72.4	2.80	4.40	12.32	3.01%
27	75.2	2.79	3.60	10.05	2.45%
28	78.0	4.40	3.10	13.64	3.33%
29	84.0	3.01	0.00	0.00	0.00%
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	84.00		409.97	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Garner	**Data Inputed by / Date:**	Garner 7/7/2004
Notetaker/Recorder:	Cal F	**Data Input Checked by / Date:**	Cal F 7/8/2004
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: Folse Dye R1 XS1 **Subsegment:** 120302 **Waterbody:** Bayou Cutoff

Site Description:

Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual

Initial Bank: ☐ RDB ☑ LDB

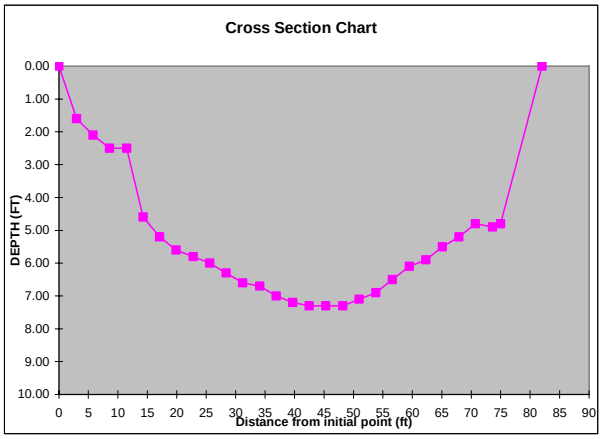
Tapedown:

Guage Height:

Date: 7/1/2004

WIDTH[1] (ft):	82.00
AREA[2] (ft^2):	424.77
AVG. DEPTH[3](ft):	5.18

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	1.50	0.00	0.00	
2	3.0	2.90	1.60	4.64	1.09%
3	5.8	2.80	2.10	5.88	1.38%
4	8.6	2.85	2.50	7.13	1.68%
5	11.5	2.85	2.50	7.13	1.68%
6	14.3	2.80	4.60	12.88	3.03%
7	17.1	2.80	5.20	14.56	3.43%
8	19.9	2.85	5.60	15.96	3.76%
9	22.8	2.85	5.80	16.53	3.89%
10	25.6	2.80	6.00	16.80	3.96%
11	28.4	2.80	6.30	17.64	4.15%
12	31.2	2.85	6.60	18.81	4.43%
13	34.1	2.85	6.70	19.10	4.50%
14	36.9	2.80	7.00	19.60	4.61%
15	39.7	2.80	7.20	20.16	4.75%
16	42.5	2.80	7.30	20.44	4.81%
17	45.3	2.85	7.30	20.81	4.90%
18	48.2	2.84	7.30	20.76	4.89%
19	51.0	2.80	7.10	19.88	4.68%
20	53.8	2.81	6.90	19.36	4.56%
21	56.6	2.85	6.50	18.53	4.36%
22	59.5	2.85	6.10	17.39	4.09%
23	62.3	2.80	5.90	16.52	3.89%
24	65.1	2.80	5.50	15.40	3.63%
25	67.9	2.80	5.20	14.56	3.43%
26	70.7	2.85	4.80	13.68	3.22%
27	73.6	2.14	4.90	10.49	2.47%
28	75.0	4.20	4.80	20.16	4.75%
29	82.0	3.51	0.00	0.00	0.00%
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	82.00		424.77	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Garner	Data Inputed by / Date:	Garner 7/7/2004
Notetaker/Recorder:	Cal F	Data Input Checked by / Date:	Cal F 7/7/2004
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: Folse Dye R1 XS 2 **Subsegment:** 120302 **Waterbody:** Bayou Cutoff

Site Description:

Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual

Initial Bank: ☐ RDB ☑ LDB

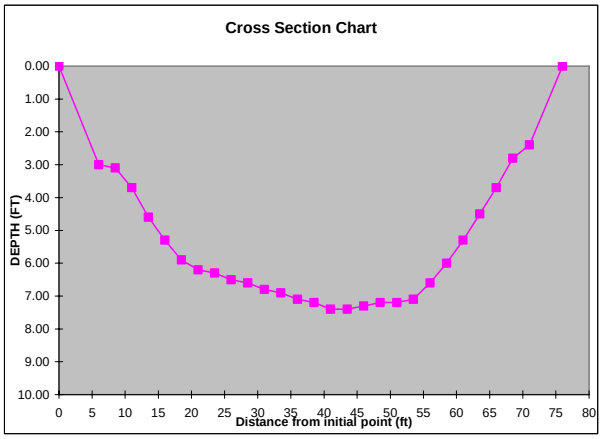
Tapedown:

Guage Height:

Date: 7/1/2004

WIDTH[1] (ft):	76.00
AREA[2] (ft^2):	393.50
AVG. DEPTH[3](ft):	5.18

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	3.00	0.00	0.00	
2	6.0	4.25	3.00	12.75	3.24%
3	8.5	2.50	3.10	7.75	1.97%
4	11.0	2.50	3.70	9.25	2.35%
5	13.5	2.50	4.60	11.50	2.92%
6	16.0	2.50	5.30	13.25	3.37%
7	18.5	2.50	5.90	14.75	3.75%
8	21.0	2.50	6.20	15.50	3.94%
9	23.5	2.50	6.30	15.75	4.00%
10	26.0	2.50	6.50	16.25	4.13%
11	28.5	2.50	6.60	16.50	4.19%
12	31.0	2.50	6.80	17.00	4.32%
13	33.5	2.50	6.90	17.25	4.38%
14	36.0	2.50	7.10	17.75	4.51%
15	38.5	2.50	7.20	18.00	4.57%
16	41.0	2.50	7.40	18.50	4.70%
17	43.5	2.50	7.40	18.50	4.70%
18	46.0	2.50	7.30	18.25	4.64%
19	48.5	2.50	7.20	18.00	4.57%
20	51.0	2.50	7.20	18.00	4.57%
21	53.5	2.50	7.10	17.75	4.51%
22	56.0	2.50	6.60	16.50	4.19%
23	58.5	2.50	6.00	15.00	3.81%
24	61.0	2.50	5.30	13.25	3.37%
25	63.5	2.50	4.50	11.25	2.86%
26	66.0	2.50	3.70	9.25	2.35%
27	68.5	2.50	2.80	7.00	1.78%
28	71.0	3.75	2.40	9.00	2.29%
29	76.0	2.50	0.00	0.00	0.00%
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	76.00		393.50	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	E. Garner	Data Inputed by / Date:	J. Earles / 7/7/2004
Notetaker/Recorder:	Cal F.	Data Input Checked by / Date:	E. Garner / 7/7/2004
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: Folse Dye R1 X3 **Subsegment:** 120302 **Waterbody:** Bayou Cutoff

Site Description:

Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual

Initial Bank: ☐ RDB ☑ LDB

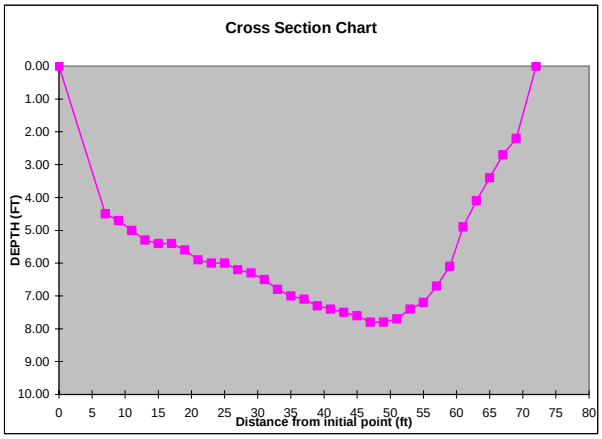
Tapedown:

Guage Height:

Date: 7/1/2004

WIDTH[1] (ft):	72.00
AREA[2] (ft^2):	395.35
AVG. DEPTH[3](ft):	5.49

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	3.50	0.00	0.00	
2	7.0	4.50	4.50	20.25	5.12%
3	9.0	2.00	4.70	9.40	2.38%
4	11.0	2.00	5.00	10.00	2.53%
5	13.0	2.00	5.30	10.60	2.68%
6	15.0	2.00	5.40	10.80	2.73%
7	17.0	2.00	5.40	10.80	2.73%
8	19.0	2.00	5.60	11.20	2.83%
9	21.0	2.00	5.90	11.80	2.98%
10	23.0	2.00	6.00	12.00	3.04%
11	25.0	2.00	6.00	12.00	3.04%
12	27.0	2.00	6.20	12.40	3.14%
13	29.0	2.00	6.30	12.60	3.19%
14	31.0	2.00	6.50	13.00	3.29%
15	33.0	2.00	6.80	13.60	3.44%
16	35.0	2.00	7.00	14.00	3.54%
17	37.0	2.00	7.10	14.20	3.59%
18	39.0	2.00	7.30	14.60	3.69%
19	41.0	2.00	7.40	14.80	3.74%
20	43.0	2.00	7.50	15.00	3.79%
21	45.0	2.00	7.60	15.20	3.84%
22	47.0	2.00	7.80	15.60	3.95%
23	49.0	2.00	7.80	15.60	3.95%
24	51.0	2.00	7.70	15.40	3.90%
25	53.0	2.00	7.40	14.80	3.74%
26	55.0	2.00	7.20	14.40	3.64%
27	57.0	2.00	6.70	13.40	3.39%
28	59.0	2.00	6.10	12.20	3.09%
29	61.0	2.00	4.90	9.80	2.48%
30	63.0	2.00	4.10	8.20	2.07%
31	65.0	2.00	3.40	6.80	1.72%
32	67.0	2.00	2.70	5.40	1.37%
33	69.0	2.50	2.20	5.50	1.39%
34	72.0	1.50	0.00	0.00	0.00%
35					
36					
37					
38					
39					
40					
	Total	72.00		395.35	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	E. Garner	Data Inputed by / Date:	J. Earles / 7/7/2004
Notetaker/Recorder:	Cal F.	Data Input Checked by / Date:	E. Garner / 7/7/2004
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 G– Historical and Ambient Data

Appendix G1 – Ambient Data

Critical Temperature and DO Determinations:

SITE NUMBER: 0341

SITE DESCRIPTION: Bayou Folse north of Houma, Louisiana

	Summer Season	***Winter Season***
90th Percentile Temperature(°C):	30.94	22.24
90 % DO Sat (mg/L):	6.69	7.83
Months:	May To Oct	Nov To Apr

Date	***Water Temp. (°C)***	***DO (mg/L)***
8/22/2005	30.11	3.24
8/2/2005	30.80	2.36
7/12/2005	30.35	5.26
6/14/2005	30.70	8.44
5/17/2005	27.31	4.40
4/26/2005	22.14	5.50
4/5/2005	21.92	8.00
3/15/2005	18.32	3.24
2/21/2005	17.44	4.83
2/15/2005	16.78	4.51
1/11/2005	13.67	8.38
12/6/2000	10.82	3.34
11/1/2000	23.70	4.21
10/4/2000	25.00	2.57
9/6/2000	30.96	2.05
8/9/2000	30.70	1.90

Date	Water Temp. (°C)	DO (mg/L)
7/12/2000	31.00	5.40
6/7/2000	27.30	4.47
5/10/2000	27.70	5.02
4/12/2000	20.90	7.61
3/15/2000	19.00	8.40
2/9/2000	12.20	7.37
1/12/2000	17.40	8.36
5/12/1998	27.70	7.30
3/10/1998	14.90	5.10
1/13/1998	15.60	6.40
11/18/1997	13.80	4.80
9/9/1997	26.80	3.40
7/15/1997	27.50	2.60
5/13/1997	23.10	5.20
3/11/1997	23.20	7.20
1/7/1997	15.20	3.80
11/19/1996	21.00	
9/10/1996	28.60	3.20
5/14/1996	27.50	5.20
3/12/1996	10.60	14.00
1/9/1996	8.20	7.80
11/14/1995	17.30	7.80

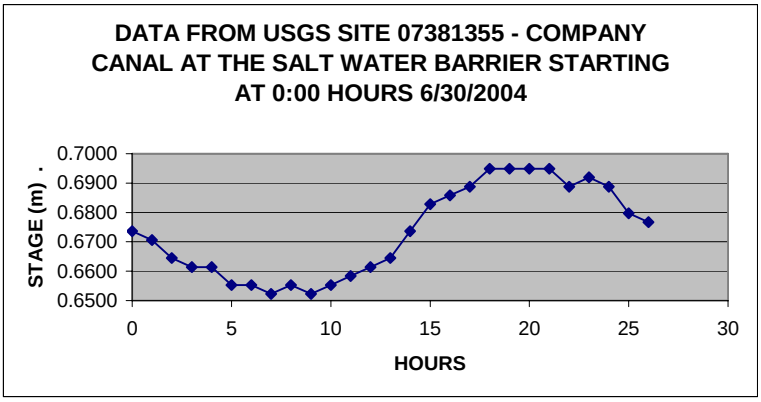
Date	Water Temp. (°C)	DO (mg/L)
9/12/1995	26.30	3.60
7/11/1995	31.00	6.80
5/9/1995	25.70	3.00
3/14/1995	20.10	5.50
1/10/1995	16.10	5.60
11/15/1994	22.30	5.80
9/13/1994	27.80	3.10
7/12/1994	25.70	3.90
5/10/1994	27.30	6.40
3/15/1994	19.30	7.00
1/11/1994	12.30	7.90
11/16/1993	22.60	4.30
9/14/1993	28.90	6.28
7/13/1993	26.50	2.06
5/11/1993	23.80	3.10
3/9/1993	17.10	4.50
1/12/1993	18.90	9.90
11/17/1992	14.80	4.60
9/15/1992	26.00	1.80
7/14/1992	31.48	3.04
5/12/1992	23.76	4.24
3/10/1992	21.92	5.44

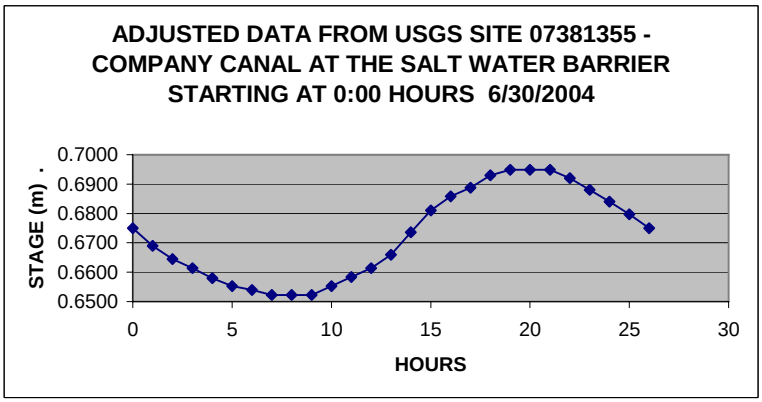
Date	Water Temp. (°C)	DO (mg/L)
1/7/1992	13.15	4.12
11/19/1991	20.58	7.14
9/10/1991	27.40	1.80
7/16/1991	29.20	1.32
5/14/1991	25.60	1.95
3/12/1991	17.80	4.64
1/15/1991	11.80	5.10

Appendix G2 – Historical Data

Days	Hours	Min	Head (m)	Adjusted Head (m)
1	0	0	0.6736	0.6750
1	1	0	0.6706	0.6690
1	2	0	0.6645	0.6645
1	3	0	0.6614	0.6614
1	4	0	0.6614	0.6580
1	5	0	0.6553	0.6553
1	6	0	0.6553	0.6540
1	7	0	0.6523	0.6523
1	8	0	0.6553	0.6523
1	9	0	0.6523	0.6523
1	10	0	0.6553	0.6553
1	11	0	0.6584	0.6584
1	12	0	0.6614	0.6614
1	13	0	0.6645	0.6660
1	14	0	0.6736	0.6736
1	15	0	0.6828	0.6810
1	16	0	0.6858	0.6858
1	17	0	0.6888	0.6888
1	18	0	0.6949	0.6930
1	19	0	0.6949	0.6949
1	20	0	0.6949	0.6949
1	21	0	0.6949	0.6949
1	22	0	0.6888	0.6920
1	23	0	0.6919	0.6880
2	24	0	0.6888	0.6840
2	25	0	0.6797	0.6797
2	26	0	0.6767	0.6750
			Max Adj	0.6949
			Min Adj	0.6523
			Tide Height	0.0426

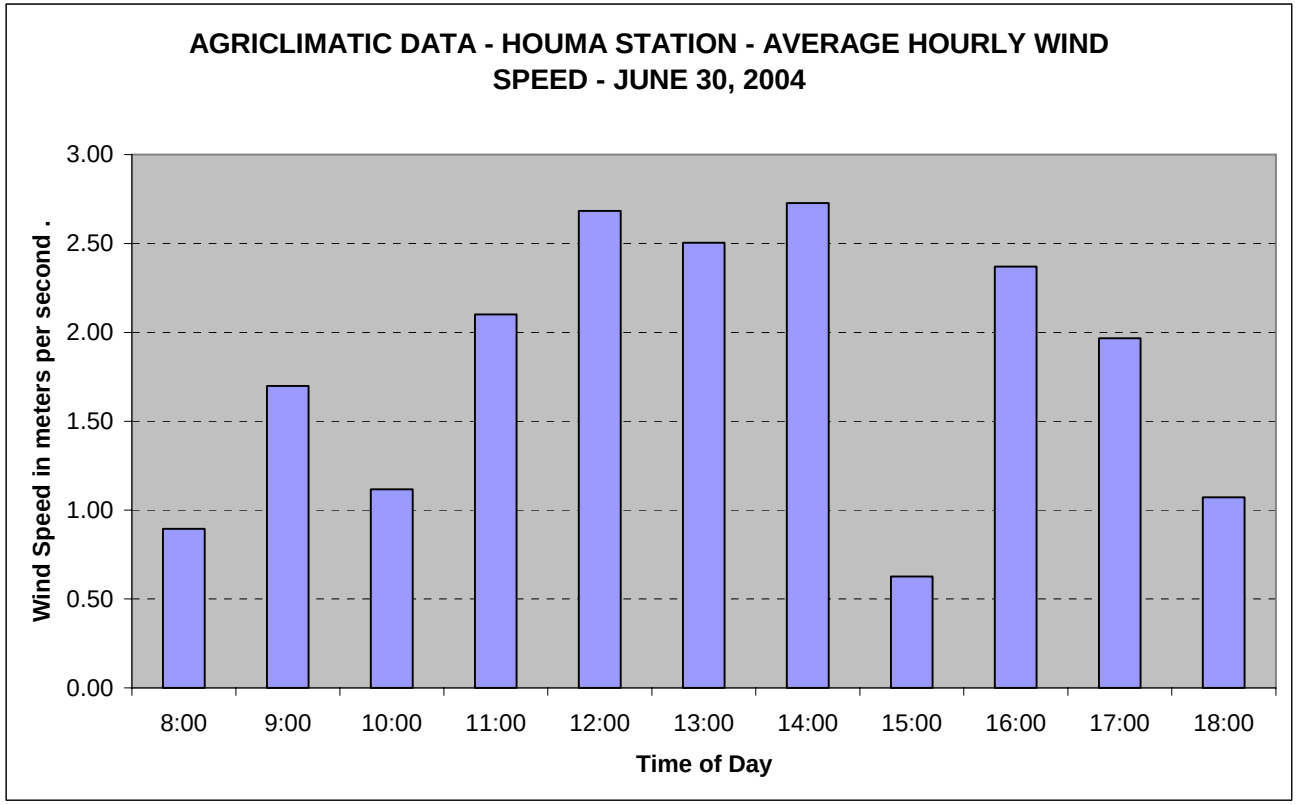
bottom	8
top	20
period of rise	12





JUNE 30, 2004 WIND SPEED DATA AT HOUMA

HOUR	AVG HOURLY WIND SPEED (miles/h)	AVG HOURLY WIND SPEED (meters/s)
8:00	2.00	0.89
9:00	3.80	1.70
10:00	2.50	1.12
11:00	4.70	2.10
12:00	6.00	2.68
13:00	5.60	2.50
14:00	6.10	2.73
15:00	1.40	0.63
16:00	5.30	2.37
17:00	4.40	1.97
18:00	2.40	1.07
AVG @ 10 m ---->	4.02	1.80
TARGET HEIGHT (m)		0.30
ADJ TO .3 m ---->		1.09



Appendix G3 – Land Use

Land Use Summary

Subsegment 120302

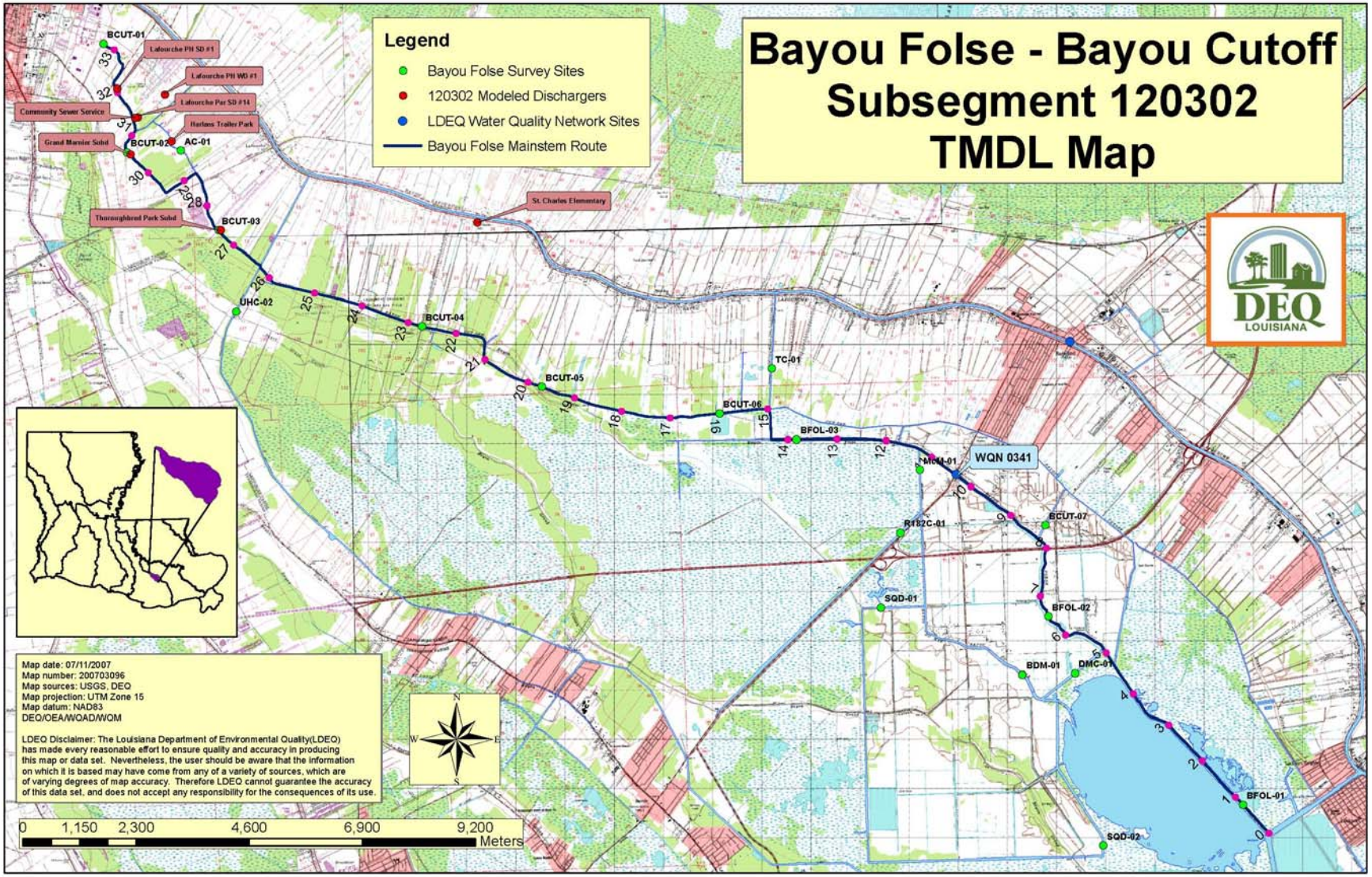
Data Source Name: LA-GAP June 2000

Grid Name	*Area (Acres)*	*% Land Use*
Agriculture/Cropland/Grassland	26644.64	38.67
Fresh Marsh	13775.12	19.99
Wetland Forest Deciduous	12683.83	18.41
Vegetated Urban	6372.94	9.25
Water	5860.76	8.51
Wetland S/S Deciduous	1754.91	2.55
Upland Forest Deciduous	697.65	1.01
Wetland S/S Evergreen	425.89	0.62
Upland Forest Mixed	301.34	0.44
Upland S/S Mixed	265.98	0.39
Non-Vegetated Urban	121.43	0.18

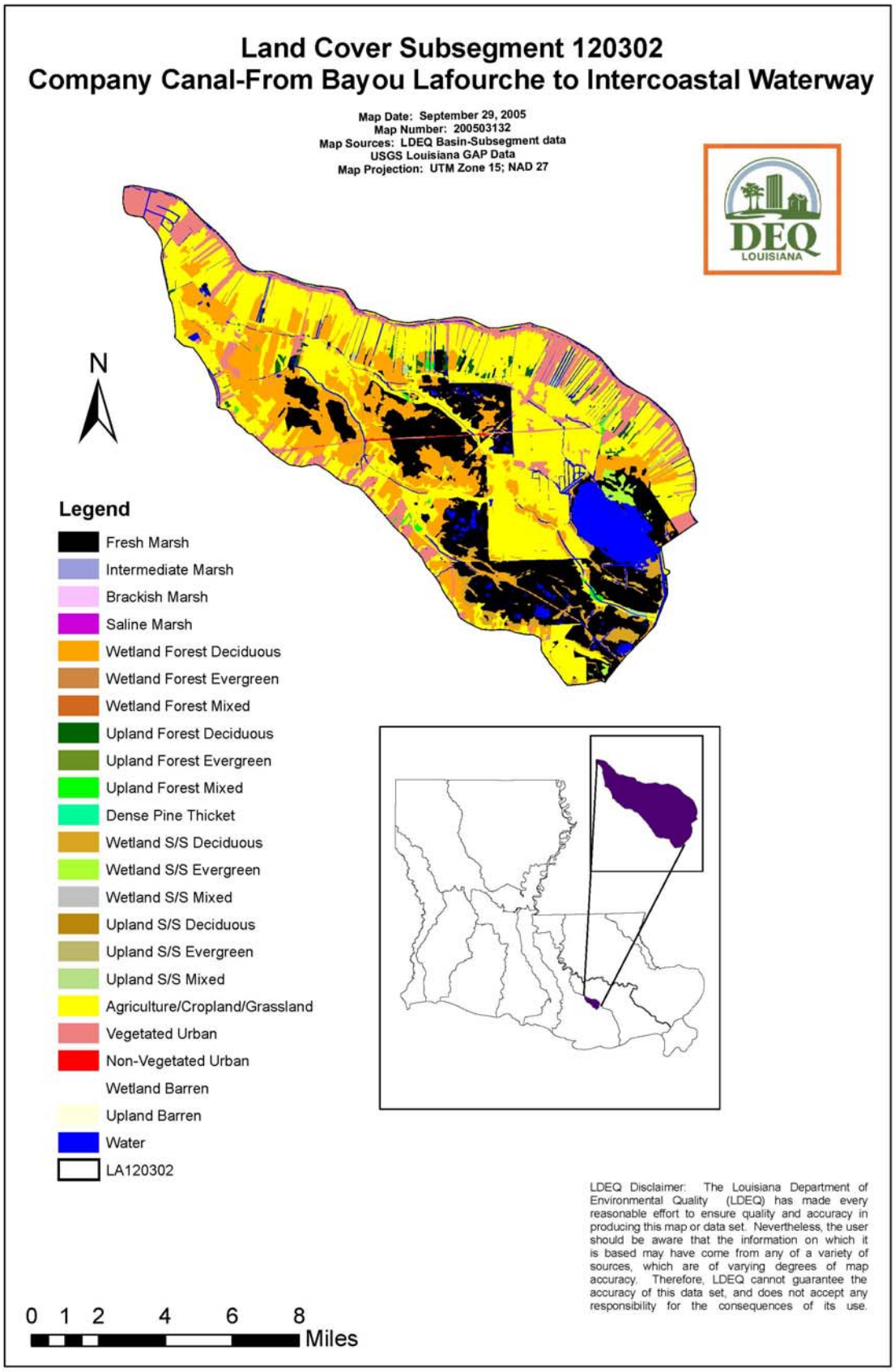
Wednesday, July 11, 2007

Appendix H – Maps and Diagrams

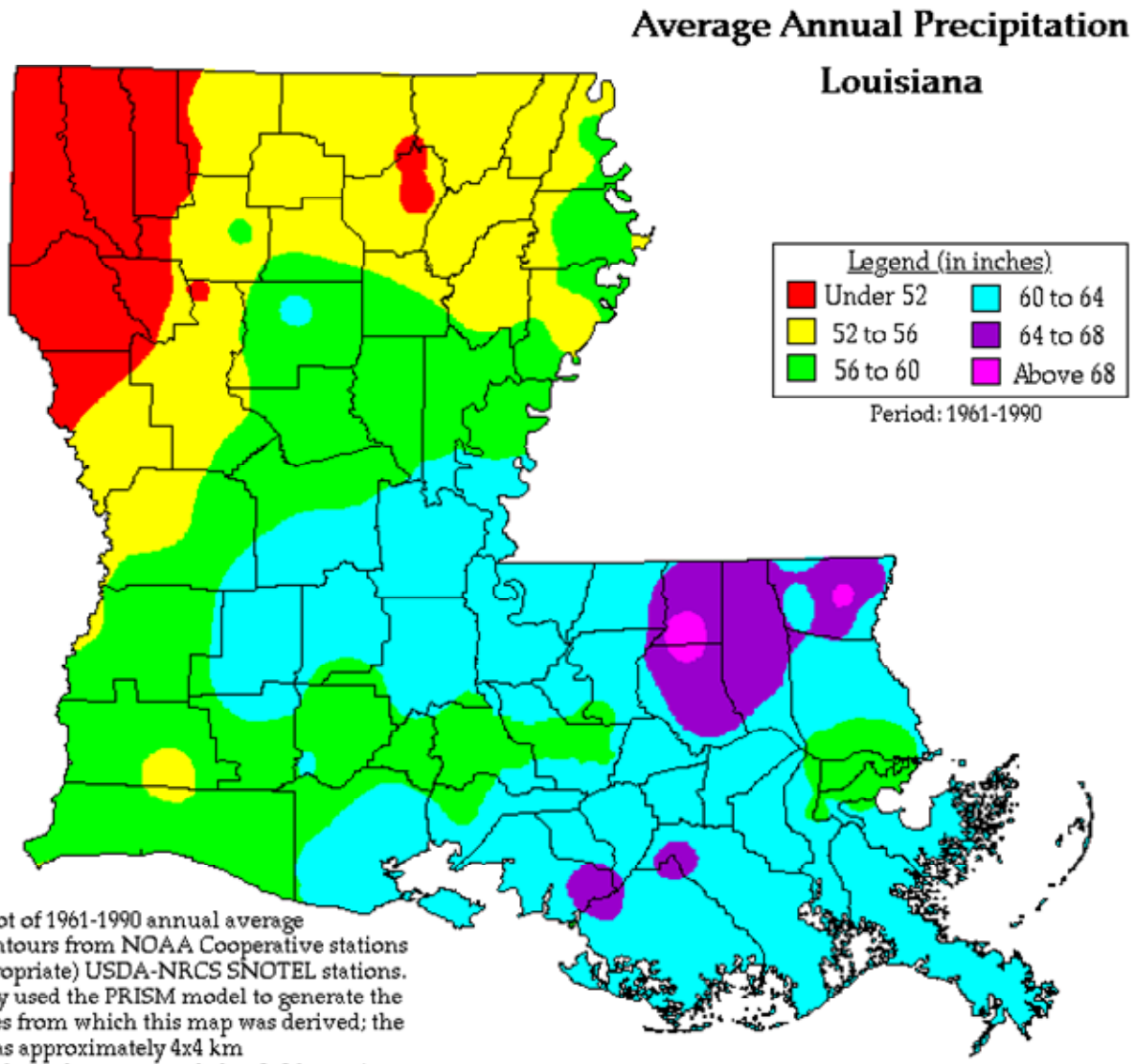
Appendix H1- Overview map


Bayou Folse - Bayou Cutoff
Subsegment 120302
TMDL Map
Legend
Bayou Folse Survey Sites
120302 Modeled Dischargers
LDEQ Water Quality Network Sites
Bayou Folse Mainstem Route
DEQ
LOUISIANA
BCUT-01
BCUT-02
AC-01
BCUT-03
UHC-02
BCUT-04
BCUT-05
BCUT-06
TC-01
BFOL-03
WQN 0341
BCUT-07
R182C-01
SQD-01
BFOL-02
BDM-01
DMC-01
BFOL-01
SQD-02
Lafourche PH SD #1
Lafourche PH WD #1
Lafourche Par SD #14
Community Sewer Service
Harlans Trailer Park
Grand Marnier Subd
Thoroughbred Park Subd
St. Charles Elementary
Map date: 07/11/2007
Map number: 200703096
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 1,150 2,300 4,600 6,900 9,200
Meters

Appendix H2 – Land Use Map


Land Cover Subsegment 120302
Company Canal-From Bayou Lafourche to Intercoastal Waterway
Map Date: September 29, 2005
Map Number: 200503132
Map Sources: LDEQ Basin-Subsegment data
USGS Louisiana GAP Data
Map Projection: UTM Zone 15; NAD 27
DEQ
LOUISIANA
N
Legend
Fresh Marsh
Intermediate Marsh
Brackish Marsh
Saline Marsh
Wetland Forest Deciduous
Wetland Forest Evergreen
Wetland Forest Mixed
Upland Forest Deciduous
Upland Forest Evergreen
Upland Forest Mixed
Dense Pine Thicket
Wetland S/S Deciduous
Wetland S/S Evergreen
Wetland S/S Mixed
Upland S/S Deciduous
Upland S/S Evergreen
Upland S/S Mixed
Agriculture/Cropland/Grassland
Vegetated Urban
Non-Vegetated Urban
Wetland Barren
Upland Barren
Water
LA120302
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 1 2 4 6 8
Miles

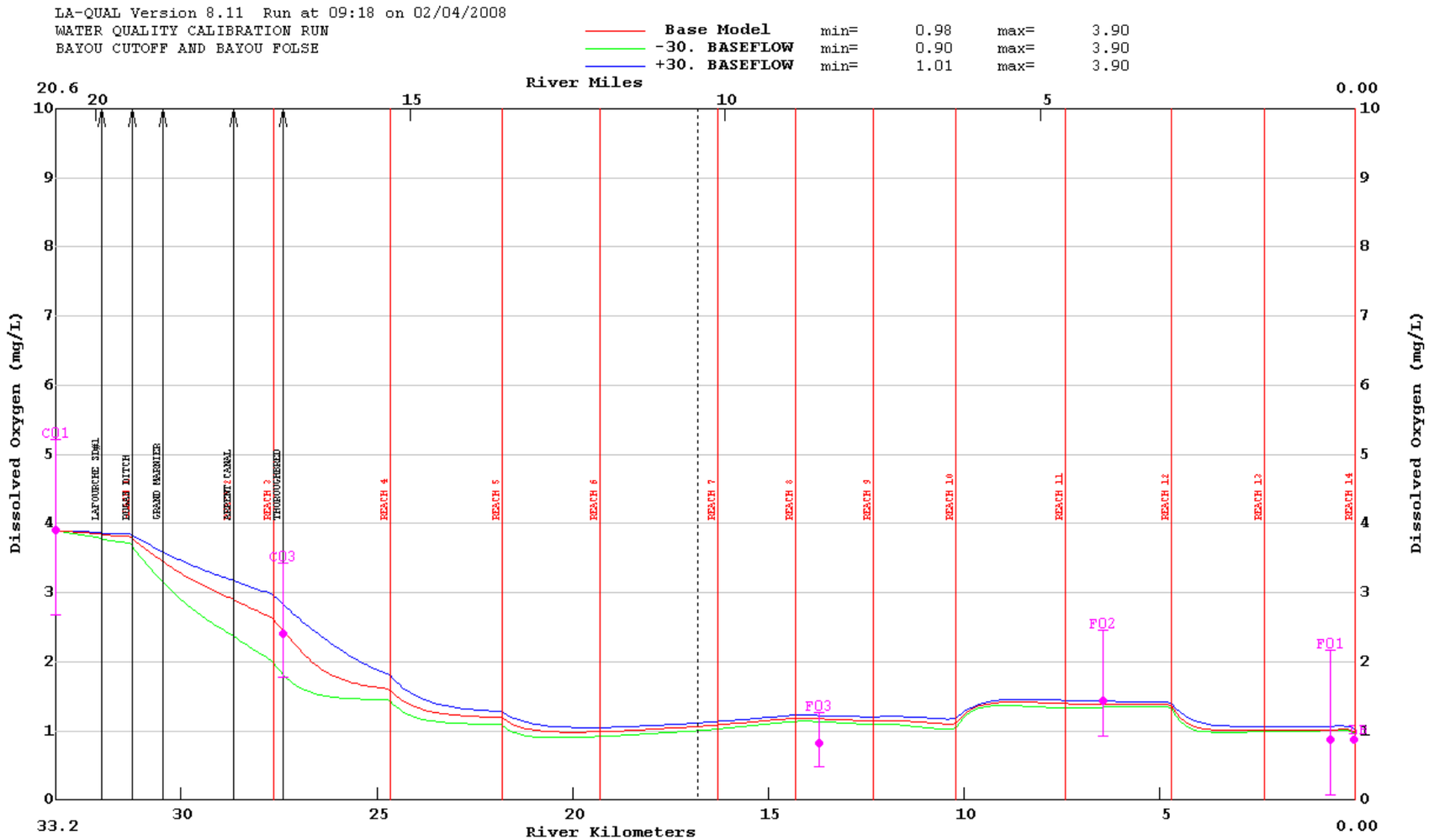
Appendix H3 – La Precipitation Map

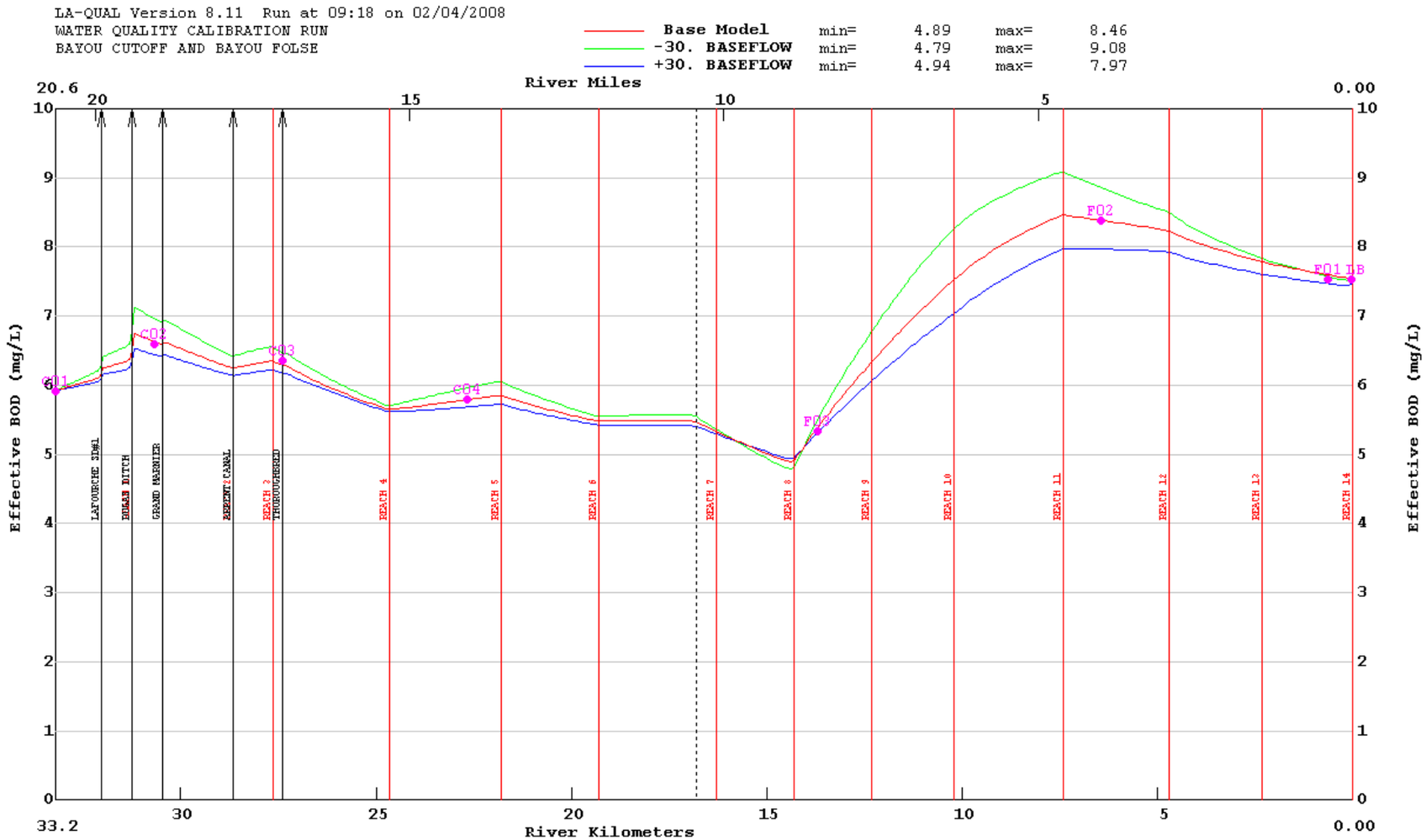


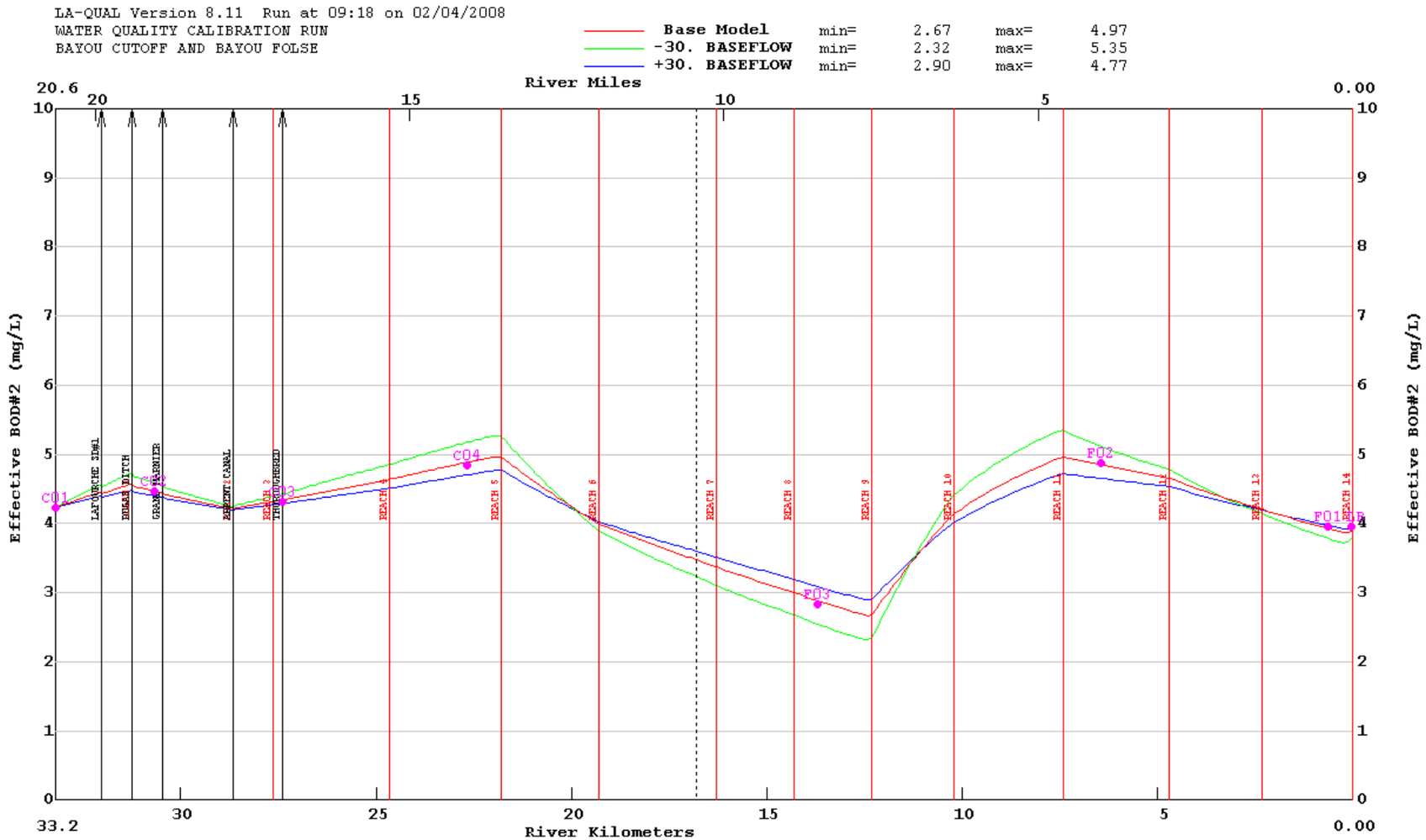
This map is a plot of 1961-1990 annual average precipitation contours from NOAA Cooperative stations and (where appropriate) USDA-NRCS SNOTEL stations. Christopher Daly used the PRISM model to generate the gridded estimates from which this map was derived; the modeled grid was approximately 4x4 km latitude/longitude, 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.

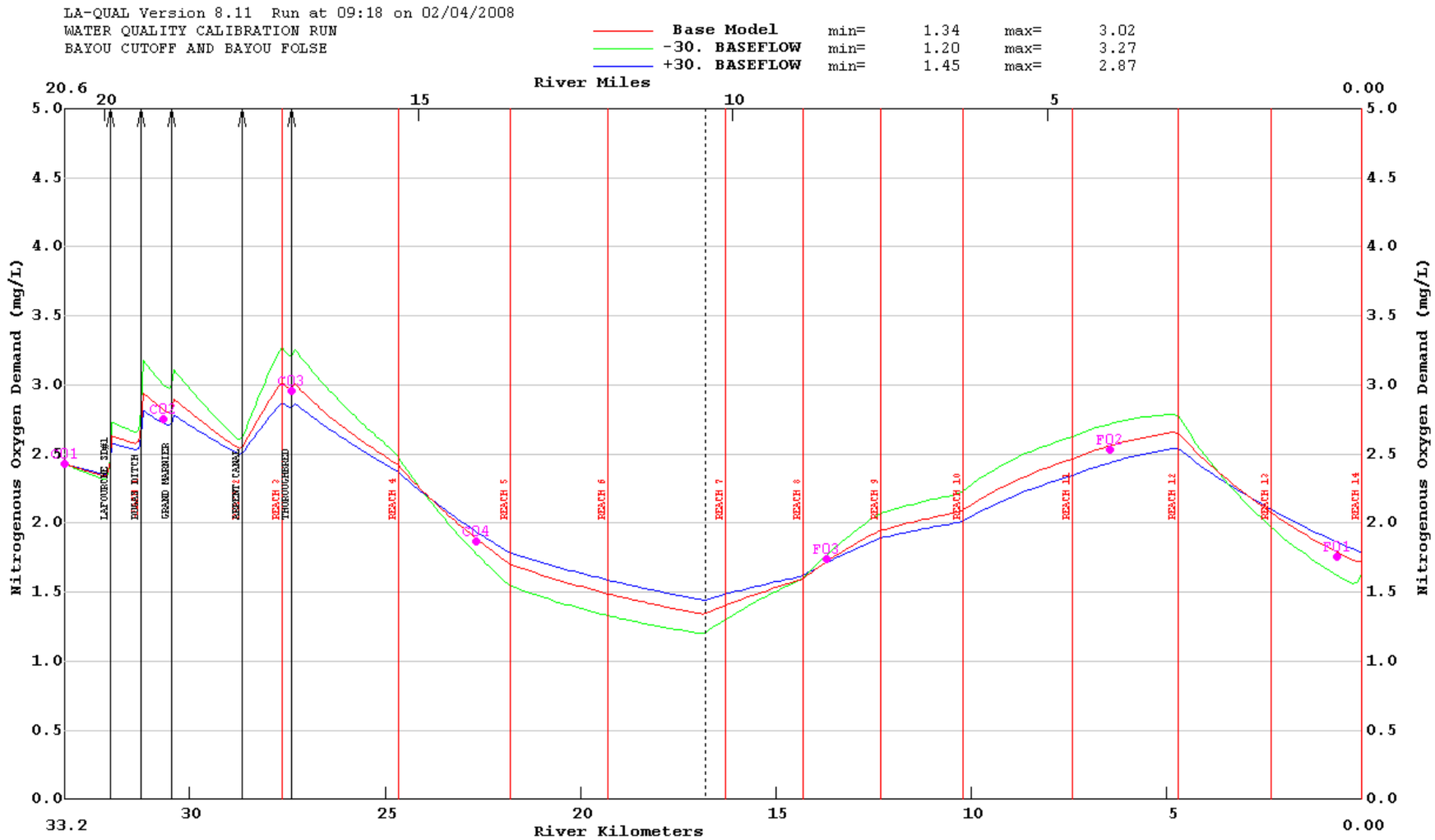
Appendix I – Sensitivity Analysis

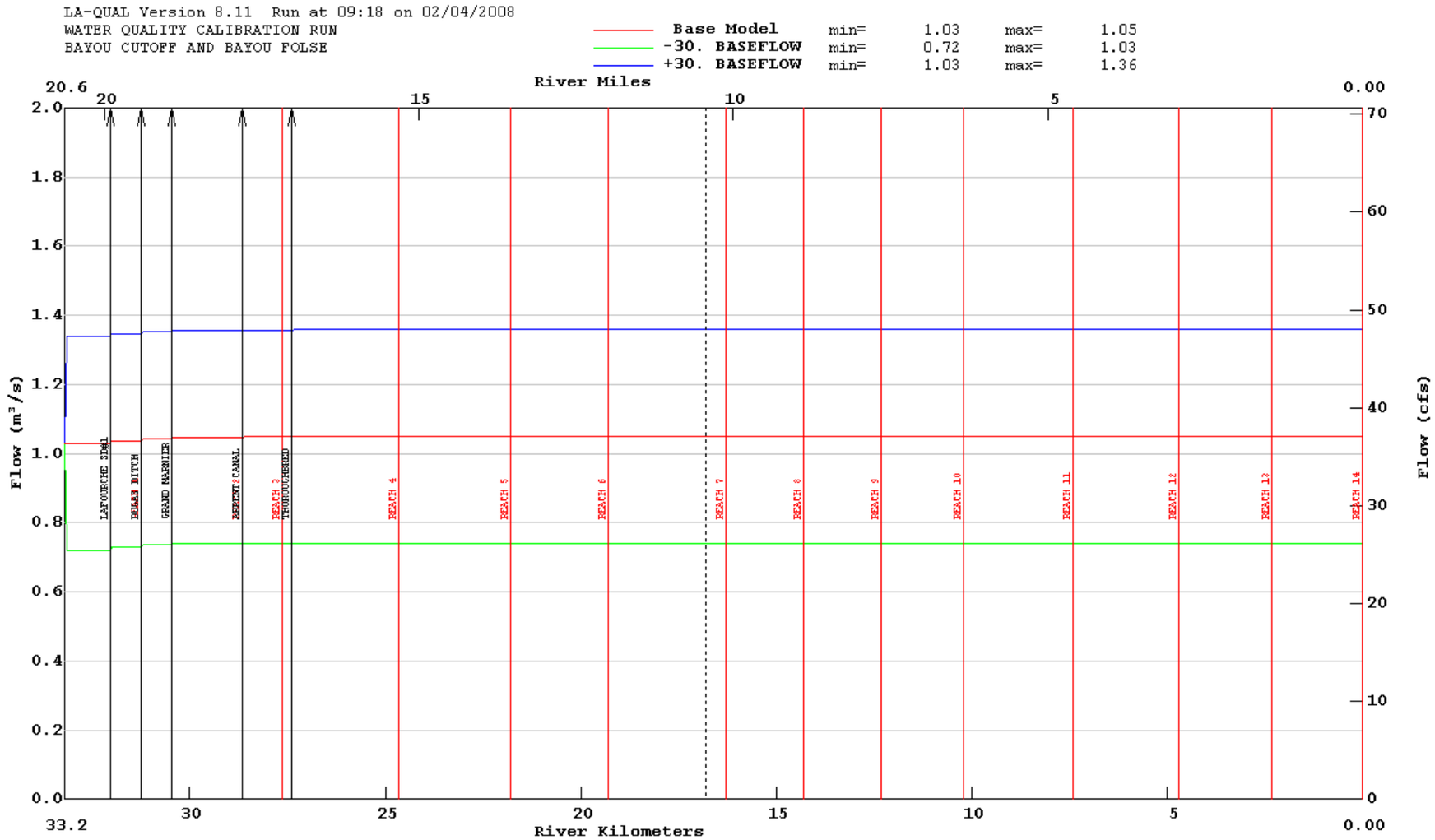
Appendix I1 – Sensitivity Output Graphs

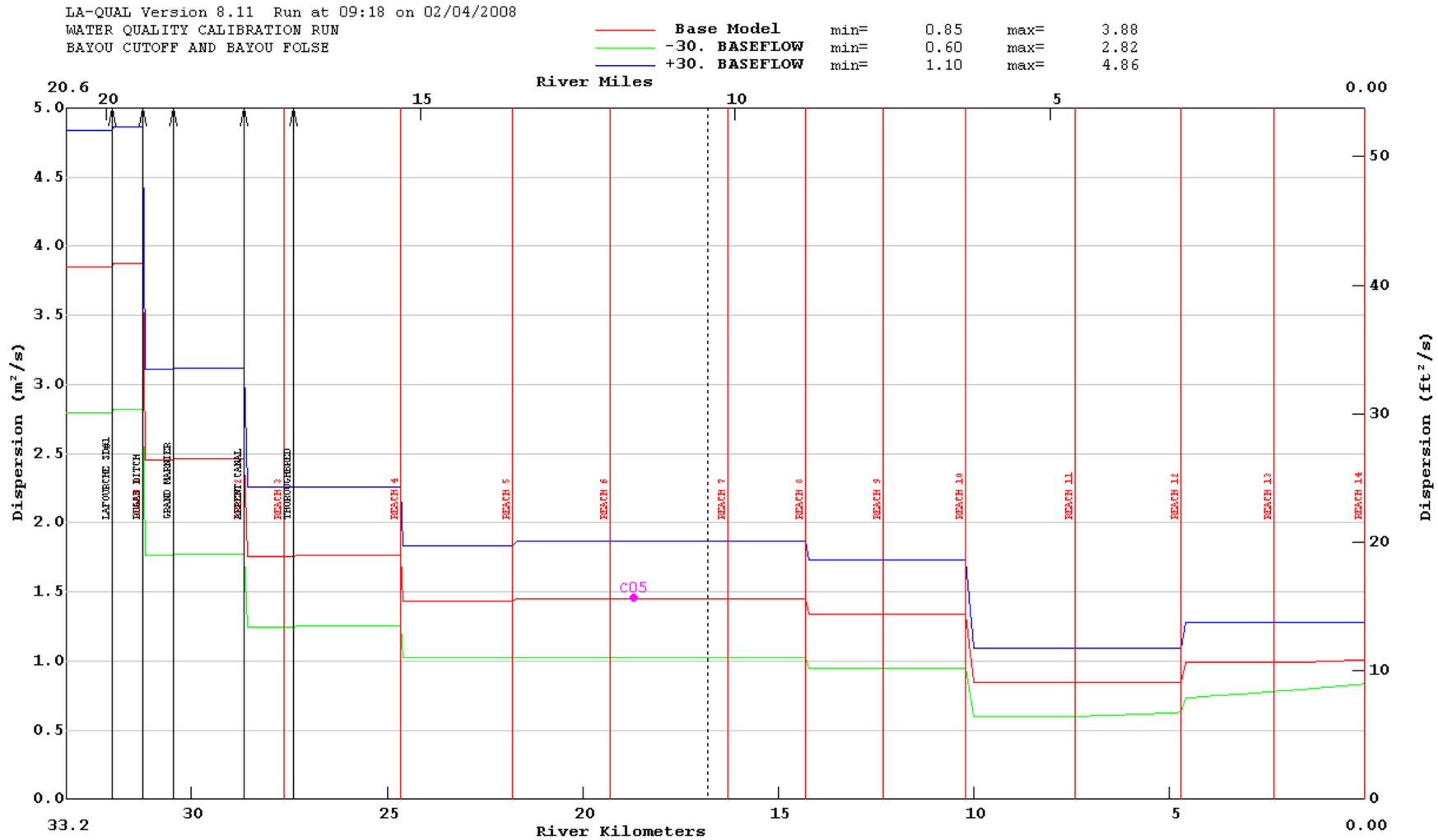

LA-QUAL Version 8.11 Run at 09:18 on 02/04/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
Base Model min= 0.98 max= 3.90
-30. BASEFLOW min= 0.90 max= 3.90
+30. BASEFLOW min= 1.01 max= 3.90
River Miles
20.6
0.00
33.2
0.00
River Kilometers
Dissolved Oxygen (mg/L)
LAFOURCHE STREET
HOGAN DITCH
GRAND MARGUERITE
ASSUMPTION CANAL
REACH 2
THIBODAUX HIGHWAY
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14
C01
C03
F03
F02
F01

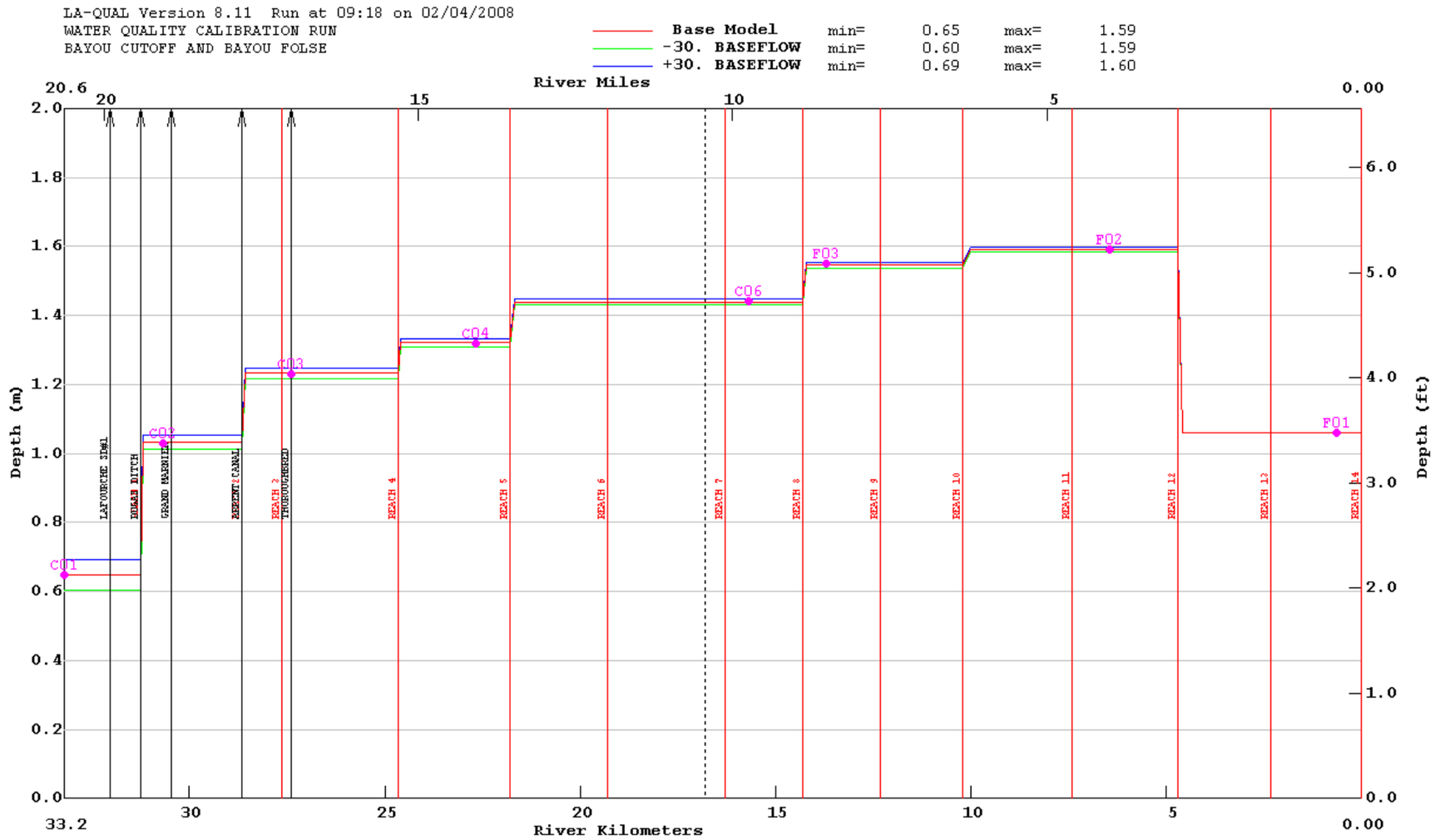

LA-QUAL Version 8.11 Run at 09:18 on 02/04/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
Base Model min= 4.89 max= 8.46
-30. BASEFLOW min= 4.79 max= 9.08
+30. BASEFLOW min= 4.94 max= 7.97
River Miles
20.6
0.00
33.2
River Kilometers
Effective BOD (mg/L)
CO1
CO2
CO3
CO4
FO1
FO2
FO3
LAFOURCHE STREET
HOGAN DITCH
GRAND BARRIER
ESCONT CANAL
REACH 2
THROUGHERED
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14

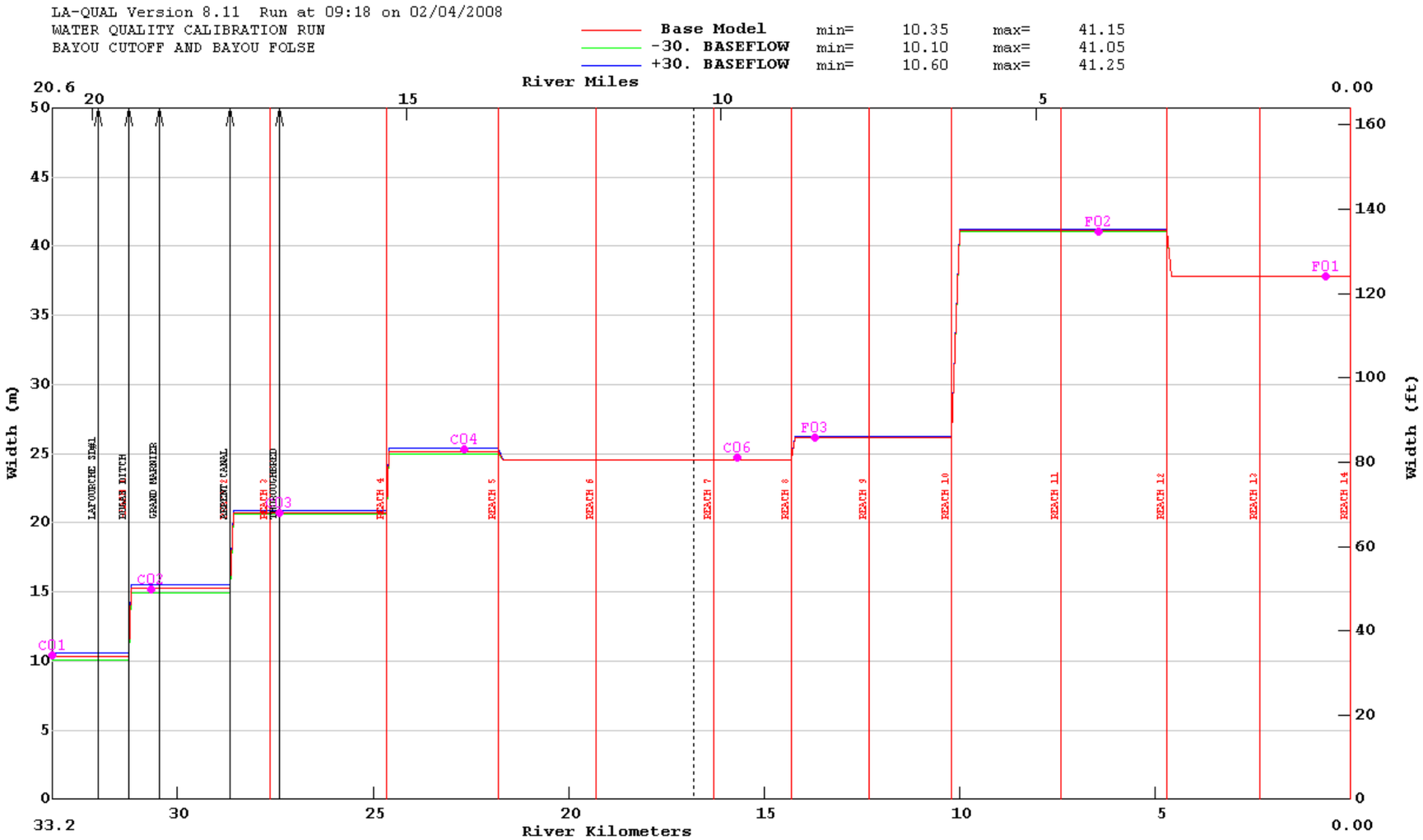

LA-QUAL Version 8.11 Run at 09:18 on 02/04/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
Base Model min= 2.67 max= 4.97
-30. BASEFLOW min= 2.32 max= 5.35
+30. BASEFLOW min= 2.90 max= 4.77
River Miles
River Kilometers
Effective BOD#2 (mg/L)
C01
C02
C03
C04
F01
F02
F03

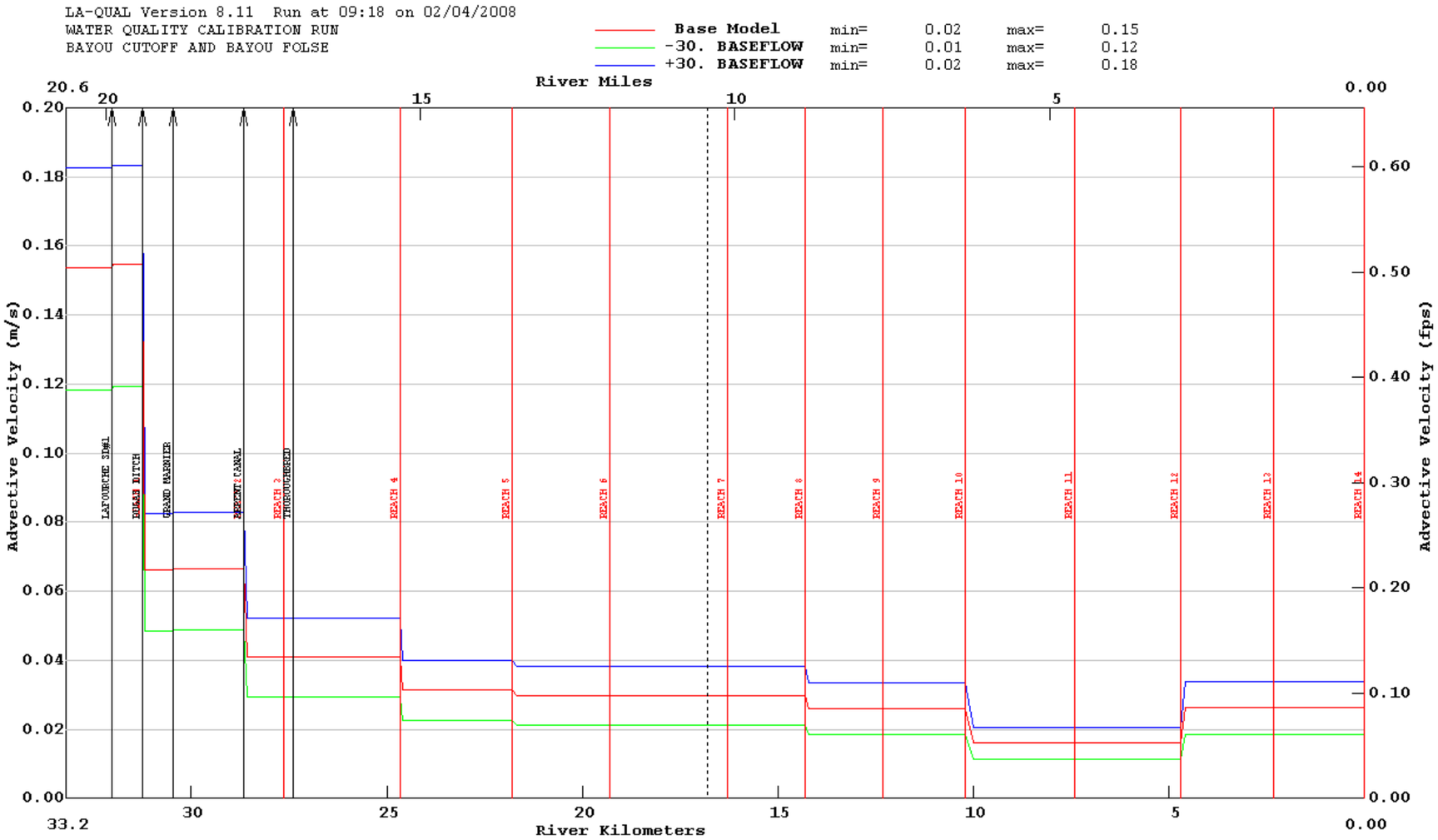

LA-QUAL Version 8.11 Run at 09:18 on 02/04/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
Base Model min= 1.34 max= 3.02
-30. BASEFLOW min= 1.20 max= 3.27
+30. BASEFLOW min= 1.45 max= 2.87
River Miles
River Kilometers
Nitrogenous Oxygen Demand (mg/L)
CO1
CO2
CO3
CO4
FO1
FO2
FO3
LAFOURCHE SIDE1
DULAS DITCH
GRAND MARNIER
REGENT CANAL
THOROUGHBRED
REACH 2
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14

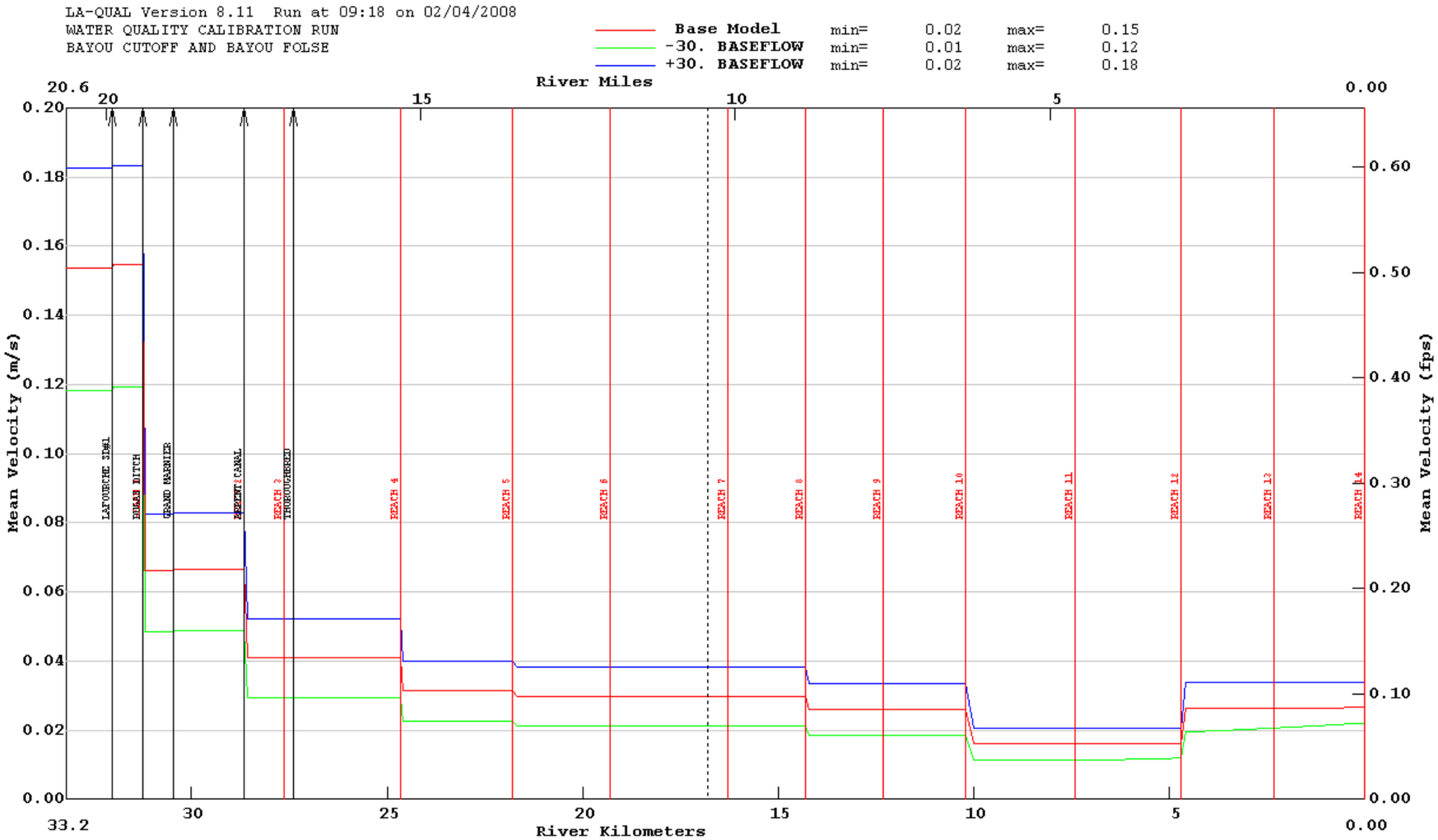

LA-QUAL Version 8.11 Run at 09:18 on 02/04/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
Base Model min= 1.03 max= 1.05
-30. BASEFLOW min= 0.72 max= 1.03
+30. BASEFLOW min= 1.03 max= 1.36
River Miles
20.6
20
15
10
5
0.00
Flow (m³/s)
Flow (cfs)
LAFOURCHE SIDE
GRAND MARNIER
THOROUGHBRED
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14
33.2
30
25
20
15
10
5
0.00
River Kilometers

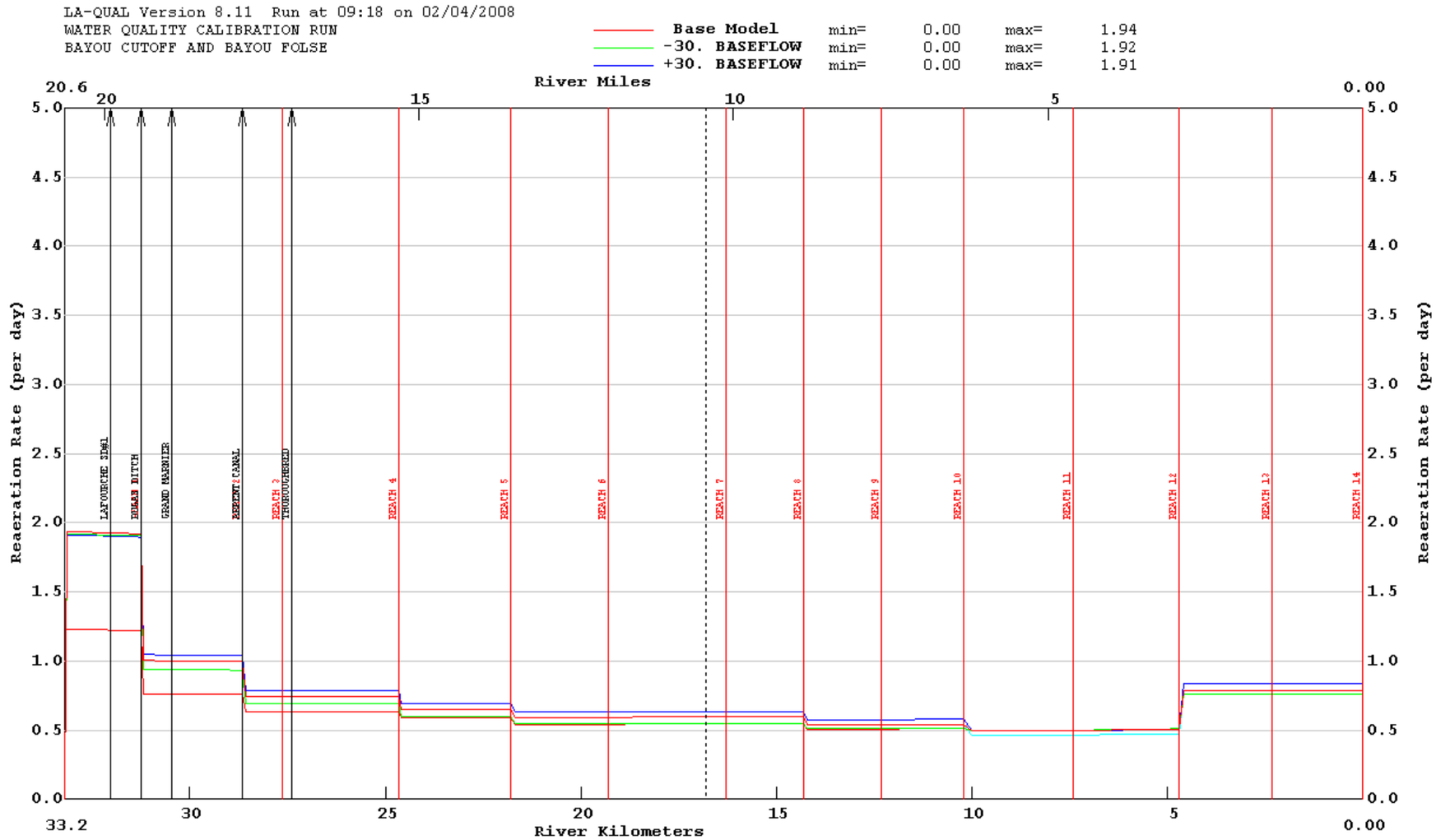

LA-QUAL Version 8.11 Run at 09:18 on 02/04/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
Base Model min= 0.85 max= 3.88
-30. BASEFLOW min= 0.60 max= 2.82
+30. BASEFLOW min= 1.10 max= 4.86
River Miles
River Kilometers
Dispersion (m²/s)
Dispersion (ft²/s)
LAFOURCHE SB#1
GRAND MARAIS
THOROUGHFARE
REACH 2
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14
C05

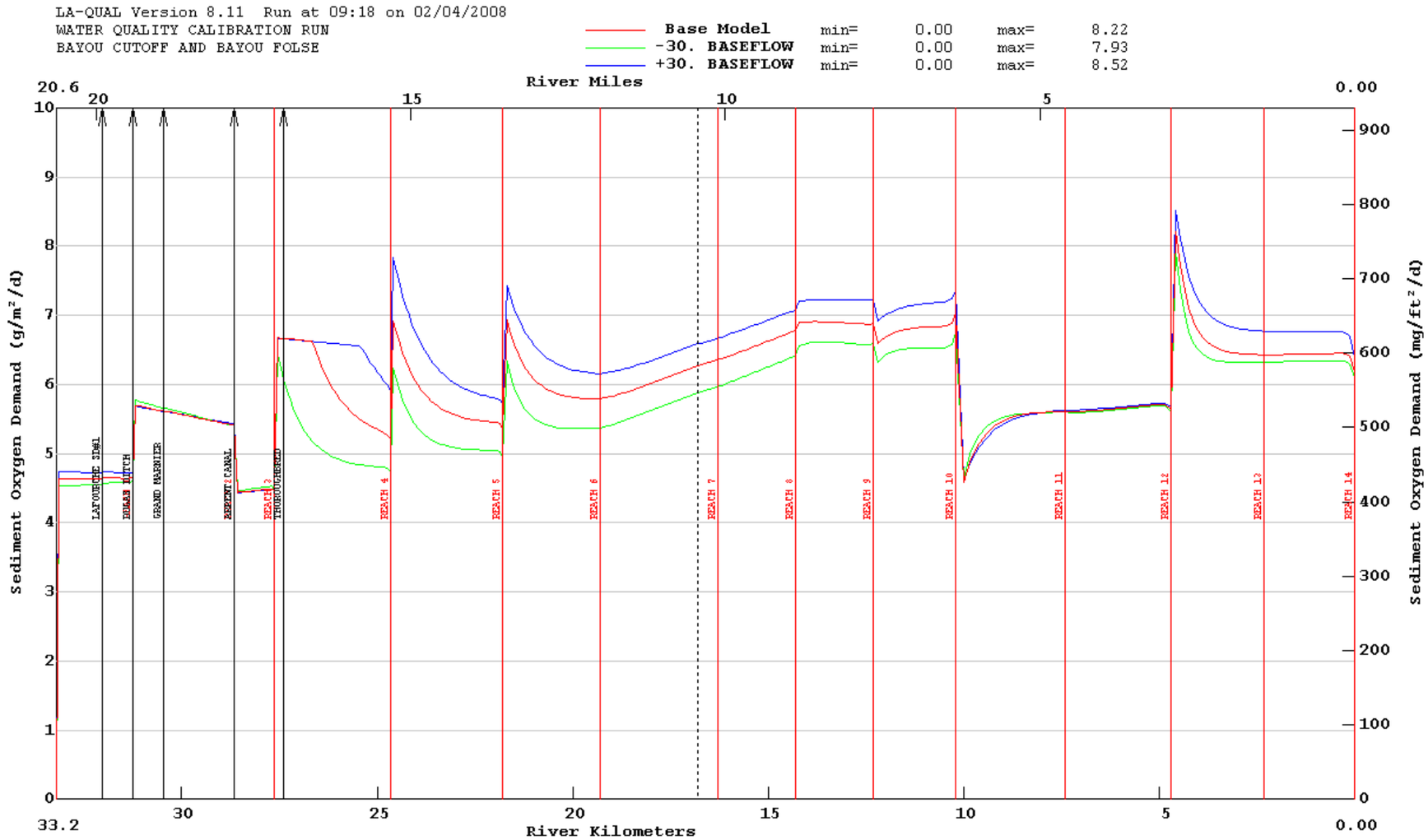

LA-QUAL Version 8.11 Run at 09:18 on 02/04/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
Base Model min= 0.65 max= 1.59
-30. BASEFLOW min= 0.60 max= 1.59
+30. BASEFLOW min= 0.69 max= 1.60
River Miles
River Kilometers
Depth (m)
Depth (ft)
CO1
CO2
CO3
CO4
CO6
FO1
FO2
FO3
LAFOURCHE STREET
GRAND MARNIER
REACH 2
THOROUGHBRED
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14


LA-QUAL Version 8.11 Run at 09:18 on 02/04/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
Base Model min= 10.35 max= 41.15
-30. BASEFLOW min= 10.10 max= 41.05
+30. BASEFLOW min= 10.60 max= 41.25
River Miles
River Kilometers
Width (m)
Width (ft)
LAFOURCHE SB#1
GRAND MARNIER
CO1
CO2
CO3
CO4
CO6
FO1
FO2
FO3


LA-QUAL Version 8.11 Run at 09:18 on 02/04/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
Base Model min= 0.02 max= 0.15
-30. BASEFLOW min= 0.01 max= 0.12
+30. BASEFLOW min= 0.02 max= 0.18
River Miles
River Kilometers
Advective Velocity (m/s)
Advective Velocity (fps)
LAFOURCHE STREET
DUGAS DITCH
GRAND MARNIER
PERCENT CANAL
THIBODOUX BRIDGE
REACH 2
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14


LA-QUAL Version 8.11 Run at 09:18 on 02/04/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
Base Model min= 0.02 max= 0.15
-30. BASEFLOW min= 0.01 max= 0.12
+30. BASEFLOW min= 0.02 max= 0.18
River Miles
River Kilometers
Mean Velocity (m/s)
Mean Velocity (fps)
LAFOURCHE SB#1
GRAND MARNIER
THOROUGHBRED
REACH 2
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14


LA-QUAL Version 8.11 Run at 09:18 on 02/04/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
Base Model min= 0.00 max= 1.94
-30. BASEFLOW min= 0.00 max= 1.92
+30. BASEFLOW min= 0.00 max= 1.91
River Miles
River Kilometers
Reaeration Rate (per day)
LAFOURCHE SB#1
GRAND MARNIER
THOROUGHBRED
REACH 2
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14


LA-QUAL Version 8.11 Run at 09:18 on 02/04/2008
WATER QUALITY CALIBRATION RUN
BAYOU CUTOFF AND BAYOU FOLSE
Base Model min= 0.00 max= 8.22
-30. BASEFLOW min= 0.00 max= 8.93
+30. BASEFLOW min= 0.00 max= 8.52
River Miles
River Kilometers
Sediment Oxygen Demand (g/m²/d)
Sediment Oxygen Demand (mg/ft²/d)
LAFOURCHE SIDE1
GRAND MARNIER
THOROUGHBRED
REACH 4
REACH 5
REACH 6
REACH 7
REACH 8
REACH 9
REACH 10
REACH 11
REACH 12
REACH 13
REACH 14

Appendix I2 – Sensitivity Output Data Set

BAYOU FOLSE/BAYOU CUTOFF 120302 Sensitivity Analysis Input Data Set

```
CNTROL01     WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
CNTROL02     WATER QUALITY SENSITIVITY RUN ON CALIBRATION
CNTROL12 YES METRIC UNITS
ENDATA01
MODOPT01  NO TEMPERATURE
MODOPT02  NO SALINITY
MODOPT03 YES CONSERVATIVE MATERIAL  I = CONDUCTIVITY               IN uS/cm
MODOPT04 YES CONSERVATIVE MATERIAL II = CHLORIDES                  IN MG/L
MODOPT05 YES DISSOLVED OXYGEN
MODOPT06 YES BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07 YES BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08 YES NBOD OXYGEN DEMAND
MODOPT09  NO PHOSPHORUS
MODOPT10  NO CHLOROPHYLL A
MODOPT11  NO MACROPHYTES
MODOPT12  NO COLIFORM
MODOPT13  NO NONCONSERVATIVE MATERIAL
ENDATA02
PROGRAM  DISPERSION EQUATION               =     3.0
PROGRAM  OCEAN EXCHANGE RATIO              =     1.0
PROGRAM  TIDE HEIGHT                       =   0.0426
PROGRAM  TIDAL PERIOD                      =     26.0
PROGRAM  PERIOD OF TIDAL RISE              =     12.0
PROGRAM  K2 MAXIMUM                        =     25.0
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  SETTLING RATE UNITS               =     2.
!24 hour wind speed for Houma Weather Station on 6/30/2004
PROGRAM  WIND VELOCITY                     =     0.68
PROGRAM  KL MINIMUM                        =     0.70
ENDATA03
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!Reach Identification Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -- ******************************----------**********----------
```

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!          R#  ID   SITE NAME                          RKM        RKM    LENGTH
REACH ID   1   BC CUTOFF: THIBODAUX TO DUGAS DITCH    33.20      31.24    0.0400
REACH ID   2   BC CUTOFF: DUGAS DITCH TO ARPENT C     31.24      28.66    0.0600
REACH ID   3   BC CUTOFF: ARPENT TO THOROUGHBRED      28.66      27.62    0.0800
REACH ID   4   BC CUTOFF:THOROUGHBRED TO RKM 24.66    27.62      24.66    0.0800
REACH ID   5   BC CUTOFF: RKM 24.66 TO ST CHAS        24.66      21.78    0.0800
REACH ID   6   BC CUTOFF: ST CHAS TO RKM 19.28        21.78      19.28    0.1000
REACH ID   7   BC CUTOFF: RKm 19.28 TO RKM 16.28      19.28      16.80    0.0800
REACH ID   8   BC CUTOFF: RKM 16.28 TO BAYOU FOLSE    16.80      14.30    0.1000
REACH ID   9   BF FOLSE: THERIOT CANAL TO RKM 12.3    14.30      12.30    0.1000
REACH ID  10   BF FOLSE: RKM 12.30 TO RKM 10.20       12.30      10.20    0.1000
REACH ID  11   BF FOLSE: RKM 10.20 TO RKM 7.40        10.20       7.40    0.2000
REACH ID  12   BF FOLSE: RKM 7.40 TO RACELAND C.       7.40       4.70    0.1500
REACH ID  13   BF FOLSE: RACELAND C. TO RKM 2.32       4.70       2.32    0.1190
REACH ID  14   BF FOLSE: RKM 2.32 TO COMPANY CANAL     2.32       0.00    0.1160
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
!LAQUAL reaches are all less than 3 kilometers long to allow flexibility in varying stream geometry.
!Dugas Ditch, Arpent Canal, and Thoroughbred Ditch are modeled with estimated geometry.
!The rating curves, W=aQ**b+c and D=dQ**e+f are developed from measured cross sections.
!Bayou Cutoff BCUT-01
HYDR-1      1   0.806  1.00    9.52  0.143  1.00    0.50          0.050
!Bayou Cutoff BCUT-02
HYDR-1      2   0.942  1.00   14.26  0.070  1.00    0.96          0.050
!Bayou Cutoff BCUT-03
HYDR-1      3   0.400  1.00   20.31  0.050  1.00    1.18          0.050
!Bayou Cutoff BCUT-03
HYDR-1      4   0.400  1.00   20.31  0.050  1.00    1.18          0.050
!Bayou Cutoff BCUT-04
HYDR-1      5   0.762  1.00   24.38  0.039  1.00    1.28          0.050
!Bayou Cutoff BCUT-06
HYDR-1      6   0.029  1.00   24.55  0.028  1.00    1.41          0.050
!Bayou Cutoff BCUT-06
HYDR-1      7   0.029  1.00   24.55  0.028  1.00    1.41          0.050
```

```
!Bayou Cutoff BCUT-06
HYDR-1      8   0.029  1.00   24.55  0.028  1.00    1.41          0.050
!Bayou Folse  BF-03
HYDR-1      9   0.067  1.00   26.14  0.025  1.00    1.52          0.050
!Bayou Folse  BF-03
HYDR-1     10   0.067  1.00   26.14  0.025  1.00    1.52          0.050
!Bayou Folse  BF-02
HYDR-1     11   0.333  1.00   40.80  0.021  1.00    1.57          0.050
!Bayou Folse  BF-02
HYDR-1     12   0.333  1.00   40.80  0.021  1.00    1.57          0.050
!Bayou Folse  BF-01
HYDR-1     13   0.0    0.0    37.80  0.0    0.00    1.06          0.050
!Bayou Folse  BF-01
HYDR-1     14   0.0    0.0    37.80  0.0    0.00    1.06          0.050
ENDATA09
!Dispersive Hydraulic Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----**********----------**********----------
!              TIDAL
!          R#  RANGE    a          b         c         d
! Tidal fraction was obtained from Dynhyd Hydrologic Calibration.
! The equation for tidal fraction for mainstem was determined to be:
! [(0.00015758)*(RKM**2)] - [(0.01573894)*(RKM)] + [1.0]
! Middle of Reach 1 is RKM 32.2
HYDR-2      1  0.657  36.000   0.833    0.0       1.0
! Middle of Reach 3 is RKM 30.0
HYDR-2      2  0.670  36.000   0.833    0.0       1.0
! Middle of Reach 5 is RKM 28.1
HYDR-2      3  0.682  36.000   0.833    0.0       1.0
! Middle of Reach 7 is RKM 26.1
HYDR-2      4  0.697  36.000   0.833    0.0       1.0
! Middle of Reach 8 is RKM 23.2
HYDR-2      5  0.720  36.000   0.833    0.0       1.0
! Middle of Reach 9 is RKM 20.5
HYDR-2      6  0.744  36.000   0.833    0.0       1.0
! Middle of Reach 10 is RKM 18.0
HYDR-2      7  0.768  36.000   0.833    0.0       1.0
! Middle of Reach 11 is RKM 15.4
HYDR-2      8  0.795  36.000   0.833    0.0       1.0
```

```
! Middle of Reach 12 is RKM 13.3
HYDR-2      9  0.819  36.000   0.833    0.0       1.0
! Middle of Reach 13 is RKM 11.2
HYDR-2     10  0.843  36.000   0.833    0.0       1.0
! Middle of Reach 14 is RKM 8.8
HYDR-2     11  0.874  36.000   0.833    0.0       1.0
! Middle of Reach is 15 RKM 6.1
HYDR-2     12  0.910  36.000   0.833    0.0       1.0
! Middle of Reach is 16 RKM 3.5
HYDR-2     13  0.947  36.000   0.833    0.0       1.0
! Middle of Reach 17 is RKM 1.2
HYDR-2     14  0.981  36.000   0.833    0.0       1.0
ENDATA10
!Initial Conditions
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         ***  --------********--------********--------********--------********
!          R#    TEMP  SALINITY   DO                            CHL A
!CHL A is achieved through calibration.  There are only two sample points on the mainstem.
!The two sample points for CHL A are BCUT-03 and BFOL-03.
!All salinity values are from insitu.
!BCUT-01 Average Cont Mont for Temp and DO
INITIAL     1      26.9    0.22   3.90                            2.0
!BCUT-02 Insitu for Temp and DO
INITIAL     2      26.4    0.09   1.37                            2.0
!BCUT-03 Average Cont Mont for Temp and DO
INITIAL     3      26.0    0.07   2.40                            2.0
!BCUT-03 Average Cont Mont for Temp and DO
!BCUT-03 for CHL A
INITIAL     4      26.0    0.07   2.40                            3.2
!BCUT-04 Insitu for Temp and DO
INITIAL     5      25.9    0.12   0.92                            3.5
!BCUT-04 Insitu for Temp and DO
INITIAL     6      25.9    0.12   0.92                            4.0
!BCUT-04 Insitu for Temp and DO
INITIAL     7      25.9    0.12   0.92                            5.0
!BFOL-03 Cont Mont for Temp and DO
INITIAL     8      26.3    0.09   0.83                           12.0
!BFOL-03 Cont Mont for Temp and DO
!BFOL-03 for CHL A
```

```
INITIAL     9      26.3    0.09   0.83                            19.2
!BFOL-03 Cont Mont for Temp and DO
INITIAL    10      26.3    0.09   0.83                            19.5
!BFOL-02 Cont Mont for Temp and DO
INITIAL    11      26.6    0.09   1.44                            19.5
!BFOL-02 Cont Mont for Temp and DO
INITIAL    12      26.6    0.09   1.44                            20.0
!BFOL-01 Cont Mont for Temp and DO
INITIAL    13      27.9    0.10   0.88                            21.0
!BFOL-01 Cont Mont for Temp and DO
INITIAL    14      27.9    0.10   0.88                            21.0
ENDATA11
!Reaeration, Sediment Oxygen Demand and BOD Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8---------9
!234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!         ***  -----******----- ******-------*******-------*******-------******-------***
!Texas equation was determined to be most suitable for this model.
!Settling rates were determined by calibration.
!Decay rate is the average decay rates of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02,
!BFOL-03, CC-01, CC-02, AND AC-01.
!               REA                          BOD 1  BOD 1 BOD1SET       BOD 2    BOD 2 BOD2SET
!          R#   EQ                       SOD  DECAY  SETT   TO SOD       DECAY    SETT   TO SOD
COEF-1      1   11.0                     2.00  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      2   11.0                     2.00  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      3   11.0                     1.00  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      4   11.0                     2.50  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      5   11.0                     4.00  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      6   11.0                     5.90  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      7   11.0                     5.90  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      8   11.0                     5.90  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1      9   11.0                     5.90  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     10   11.0                     5.50  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     11   11.0                     2.00  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     12   11.0                     2.00  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     13   11.0                     5.90  0.118   0.20    1.0         0.031   0.20    1.0
COEF-1     14   11.0                     5.90  0.118   0.20    1.0         0.031   0.20    1.0
ENDATA12
!Nitrogen and Phosphorus Coefficients
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
```

```
!          ***  -------*******-------*******-------*******-------
!               NBOD     NBOD
!           R#  DECAY    SETT
!Settling rates were determined by calibration.
!Decay rate is the average decay rates of BCUT-01, BCUT-02, BCUT-03, BCUT-04, BFOL-01, BFOL-02,
!BFOL-03, CC-01, CC-02, AND AC-01.
COEF-2      1    0.100   0.30
COEF-2      2    0.100   0.30
COEF-2      3    0.100   0.30
COEF-2      4    0.100   0.30
COEF-2      5    0.100   0.30
COEF-2      6    0.100   0.30
COEF-2      7    0.100   0.30
COEF-2      8    0.100   0.30
COEF-2      9    0.100   0.30
COEF-2     10    0.100   0.30
COEF-2     11    0.100   0.30
COEF-2     12    0.100   0.30
COEF-2     13    0.100   0.30
COEF-2     14    0.100   0.30
ENDATA13
ENDATA14
ENDATA15
ENDATA16
ENDATA17
ENDATA18
!Nonpoint Source Data
!--------1---------2---------3---------4---------5---------6---------7---------8
!23456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
!          ***  ---------*********---------*********---------*********
!           R#     BOD 1    NBOD                                BOD 2
NONPOINT    1       60.0      0.0                                 50.0
NONPOINT    2       50.0      0.0                                 20.0
NONPOINT    3       75.0     80.0                                 40.0
NONPOINT    4      100.0     25.0                                120.0
NONPOINT    5      200.0      5.0                                150.0
NONPOINT    6      120.0     30.0                                 10.0
NONPOINT    7      150.0     30.0                                 35.0
NONPOINT    8       90.0     70.0                                 30.0
NONPOINT    9      280.0     85.0                                 25.0
```

```
NONPOINT   10      300.0     75.0                                210.0
NONPOINT   11      600.0    195.0                                300.0
NONPOINT   12      500.0    195.0                                200.0
NONPOINT   13      210.0     30.0                                 70.0
NONPOINT   14      210.0     30.0                                 65.0
ENDATA19
!Headwater Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  -------------------- *** --------********--------********--------
!         E#    NAME                       FLOW    TEMP  SALIN   COND    CHLORIDES
!Bayou Cutoff headwater flow will be simulated as the DYNHYD average flow for the
!24 hours prior to the sample time at BCUT-01.
!BCUT-01 Cont Mont for Temp, Insitu for Conductivity and Salinity, Lab for Chlorides
HDWTR-1     1  BAYOU CUTOFF             1.030000  26.900    0.22   200.0     8.0
ENDATA20
!Headwater Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------*********---------*********---------*********
!          E#      DO      BOD 1    NBOD                       BOD 2
!BCUT-01 Average Cont Mont for DO.  Lab for BOD1, BOD2, and NBOD.
HDWTR-2     1       3.90     5.92     2.43                        4.23
ENDATA21
!Headwater Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------*********---------*********
!          E#             CHL A
HDWTR-3     1                 0.0
ENDATA22
ENDATA23
!Wasteload Data for Flow, Temperature, Salinity, and Conservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  --------------------*********---------*********---------*********
!          E#     NAME               FLOW      TEMP   SALINITY   COND  CHLORIDES
!Lafourche SD#1 has a design flow of 180,000 gpd = 0.007886 cms
WSTLD-1    30  LAFOURCHE SD#1      0.007886  27.0
!Dugas Ditch
```

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!Lafourche WD#1 has a design flow of 108,000 gpd = 0.004732 cms
!Lafourche SD#14 has a design flow of  27,200 gpd = 0.001192 cms
!Community Sewage Service has a design flow of 20,800 gpd = 0.000911 cms
WSTLD-1    50  DUGAS DITCH         0.0068    30.0
!Grand Marnier has a design flow of 84,400 gpd = 0.003698 cms
WSTLD-1    63  GRAND MARNIER       0.003698  26.0
!Harlan's MHP is located on AC has a design flow of 10,000 gpd = 0.000438 cms
!AC-01 Insitu for Temperature
WSTLD-1    93  ARPENT CANAL        0.000438  26.0
!Thoroughbred Park Sub has a design flow of 50,400 gpd = 0.002208 cms
WSTLD-1   109  THOROUGHBRED        0.002208  26.0
ENDATA24
!Wasteload Data for DO, BOD, and Nitrogen
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********-----********---------*****---------********
!          E#       DO    BOD 1         NBOD                            BOD 2
!Permit Limits
WSTLD-2    30        2.0   23.0          43.0                                0.0
!Permit Limits
WSTLD-2    50        2.0   69.0          64.5                                0.0
!Permit Limits
WSTLD-2    63        2.0   23.0          43.0                                0.0
!Survey measurement for AC because it if between discharger and Bayou Folse
WSTLD-2    93        2.0    6.6           3.3                                1.9
!Permit Limits
WSTLD-2   109        2.0   23.0          43.0                                0.0
ENDATA25
!Wasteload Data for Phosphorus, Chlorophyll, Coliform, and Nonconservatives
!--------1---------2---------3---------4---------5---------6---------7---------8
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!        ****  ---------********---------********
!          E#            CHL A
WSTLD-3    30
WSTLD-3    50
WSTLD-3    63
WSTLD-3    93
WSTLD-3   109
ENDATA26
!BFOL-01 Average Cont Mont
```

```
LOWER BC TEMPERATURE                        =  27.90
!BFOL-01 Insitu
LOWER BC SALINITY                           =   0.10
!BFOL-01 Insitu
LOWER BC CONSERVATIVE MATERIAL I            = 218.00
!BFOL-01 Lab Data
LOWER BC CONSERVATIVE MATERIAL II           =  16.90
!BFOL-01 Average Cont Mont
LOWER BC DISSOLVED OXYGEN                   =   0.88
!BFOL-01 Lab Data
LOWER BC BOD1 BIOCHEMICAL OXYGEN DEMAND     =   7.54
!BFOL-01 Lab Data
LOWER BC BOD2 BIOCHEMICAL OXYGEN DEMAND     =   3.96
!BFOL-01 Lab Data
LOWER BC NBOD                               =   1.76
!Calibration
LOWER BC CHLOROPHYLL A                      =  21.00
ENDATA27
ENDATA28
SENSITIV BASEFLOW   30    -30
SENSITIV CHLOR A    30    -30
SENSITIV VELOCITY   30    -30
SENSITIV TEMPERAT    2     -2
SENSITIV BOD DECA   30    -30
SENSITIV BOD2 DEC   30    -30
SENSITIV BOD SETT   30    -30
SENSITIV BOD2 SET   30    -30
SENSITIV NBOD DEC   30    -30
SENSITIV NBOD SET   30    -30
SENSITIV BENTHAL    30    -30
SENSITIV DISPERSI   30    -30
SENSITIV REAERATI   30    -30
SENSITIV HDW FLOW   30    -30
SENSITIV HDW DO     30    -30
SENSITIV HDW BOD    30    -30
SENSITIV HDW BOD2   30    -30
SENSITIV HDW NBOD   30    -30
SENSITIV DEPTH      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 LBC TEMP    2     -2
SENSITIV LBC DO     30    -30
SENSITIV LBC BOD    30    -30
SENSITIV LBC BOD2   30    -30
SENSITIV LBC NBOD   30    -30
ENDATA29
NUMBER OF PLOTS = 2
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
NUMBER OF REACHES IN PLOT 2 =  4
PLOT RCH  1  2  3  4
ENDATA30
OVERLAY 1 OPDATA_1.TXT                      BAYOU CUTOFF AND BAYOU FOLSE
OVERLAY 2 OPDATA_1.TXT                      BAYOU CUTOFF AND BAYOU FOLSE
ENDATA31
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BAYOU FOLSE/BAYOU CUTOFF 120302 Sensitivity Analysis Output Dataset

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LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is O:\Personal_Folders\Karen\Bayou Folse via Karen\Input Files\Folsesensical.txt
Output produced at 16:11 on 01/24/2008

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

CARD TYPE       CONTROL TITLES

TITLE01         WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
TITLE02         WATER QUALITY SENSITIVITY RUN ON CALIBRATION
CNTROL12  YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03  YES   CONSERVATIVE MATERIAL  I = CONDUCTIVITY              IN uS/cm
MODOPT04  YES   CONSERVATIVE MATERIAL II = CHLORIDES                 IN MG/L
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND
MODOPT07  YES   BOD2 BIOCHEMICAL OXYGEN DEMAND
MODOPT08  YES   NBOD OXYGEN DEMAND
```

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MODOPT09   NO   PHOSPHORUS
MODOPT10   NO   CHLOROPHYLL A
MODOPT11   NO   MACROPHYTES
MODOPT12   NO   COLIFORM
MODOPT13   NO   NONCONSERVATIVE MATERIAL
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

PROGRAM         DISPERSION EQUATION                =         3.00000 (values entered as a function of D,Q,Vmean)
PROGRAM         OCEAN EXCHANGE RATIO               =         1.00000
PROGRAM         TIDE HEIGHT                        =         0.04260 meters
PROGRAM         TIDAL PERIOD                       =        26.00000 hours
PROGRAM         PERIOD OF TIDAL RISE               =        12.00000 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)
PROGRAM         WIND VELOCITY                      =         0.68000 meters/sec
PROGRAM         KL MINIMUM                         =         0.70000 meters/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   BC  CUTOFF: THIBODAUX TO DUGAS DITCH     33.20  TO   31.24   0.0400     1.96      49       1     49
REACH ID      2   BC  CUTOFF: DUGAS DITCH TO ARPENT C      31.24  TO   28.66   0.0600     2.58      43      50     92
REACH ID      3   BC  CUTOFF: ARPENT TO THOROUGHBRED       28.66  TO   27.62   0.0800     1.04      13      93    105
REACH ID      4   BC  CUTOFF:THOROUGHBRED TO RKM 24.66     27.62  TO   24.66   0.0800     2.96      37     106    142
REACH ID      5   BC  CUTOFF: RKM 24.66 TO ST CHAS         24.66  TO   21.78   0.0800     2.88      36     143    178
REACH ID      6   BC  CUTOFF: ST CHAS TO RKM 19.28         21.78  TO   19.28   0.1000     2.50      25     179    203
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REACH ID      7   BC  CUTOFF: RKm 19.28 TO RKM 16.28       19.28  TO   16.80   0.0800     2.48      31      204    234
REACH ID      8   BC  CUTOFF: RKM 16.28 TO BAYOU FOLSE     16.80  TO   14.30   0.1000     2.50      25      235    259
REACH ID      9   BF  FOLSE: THERIOT CANAL TO RKM 12.3     14.30  TO   12.30   0.1000     2.00      20      260    279
REACH ID     10   BF  FOLSE: RKM 12.30 TO RKM 10.20        12.30  TO   10.20   0.1000     2.10      21      280    300
REACH ID     11   BF  FOLSE: RKM 10.20 TO RKM 7.40         10.20  TO    7.40   0.2000     2.80      14      301    314
REACH ID     12   BF  FOLSE: RKM 7.40 TO RACELAND C.        7.40  TO    4.70   0.1500     2.70      18      315    332
REACH ID     13   BF  FOLSE: RACELAND C. TO RKM 2.32        4.70  TO    2.32   0.1190     2.38      20      333    352
REACH ID     14   BF  FOLSE: RKM 2.32 TO COMPANY CANAL      2.32  TO    0.00   0.1160     2.32      20      353    372
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"

 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  1
HYDR-1        1   BC       0.806       1.000       9.520       0.143       1.000       0.500     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  2
HYDR-1        2   BC       0.942       1.000      14.260       0.070       1.000       0.960     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  3
HYDR-1        3   BC       0.400       1.000      20.310       0.050       1.000       1.180     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  4
HYDR-1        4   BC       0.400       1.000      20.310       0.050       1.000       1.180     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  5
HYDR-1        5   BC       0.762       1.000      24.380       0.039       1.000       1.280     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  6
HYDR-1        6   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  7
HYDR-1        7   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  8
HYDR-1        8   BC       0.029       1.000      24.550       0.028       1.000       1.410     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH  9
HYDR-1        9   BF       0.067       1.000      26.140       0.025       1.000       1.520     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 10
HYDR-1       10   BF       0.067       1.000      26.140       0.025       1.000       1.520     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 11
HYDR-1       11   BF       0.333       1.000      40.800       0.021       1.000       1.570     0.00000   0.050
 ***** WARNING: VELOCITY AND DEPTH EXPONENTS ADD TO GREATER THAN 1.0 IN REACH 12
HYDR-1       12   BF       0.333       1.000      40.800       0.021       1.000       1.570     0.00000   0.050
HYDR-1       13   BF       0.000       0.000      37.800       0.000       0.000       1.060     0.00000   0.050
HYDR-1       14   BF       0.000       0.000      37.800       0.000       0.000       1.060     0.00000   0.050
ENDATA09

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

CARD TYPE  REACH  ID     TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                         RANGE        "A"            "B"            "C"            "D"

HYDR          1   BC      0.66       36.000         0.833          0.000          1.000
HYDR          2   BC      0.67       36.000         0.833          0.000          1.000
HYDR          3   BC      0.68       36.000         0.833          0.000          1.000
HYDR          4   BC      0.70       36.000         0.833          0.000          1.000
HYDR          5   BC      0.72       36.000         0.833          0.000          1.000
HYDR          6   BC      0.74       36.000         0.833          0.000          1.000
HYDR          7   BC      0.77       36.000         0.833          0.000          1.000
HYDR          8   BC      0.80       36.000         0.833          0.000          1.000
HYDR          9   BF      0.82       36.000         0.833          0.000          1.000
HYDR         10   BF      0.84       36.000         0.833          0.000          1.000
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HYDR        11   BF      0.87       36.000          0.833          0.000          1.000
HYDR        12   BF      0.91       36.000          0.833          0.000          1.000
HYDR        13   BF      0.95       36.000          0.833          0.000          1.000
HYDR        14   BF      0.98       36.000          0.833          0.000          1.000
ENDATA10

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

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

INITIAL          1   BC       26.90      0.22      3.90      0.00      0.00      0.00      2.00      0.00
INITIAL          2   BC       26.40      0.09      1.37      0.00      0.00      0.00      2.00      0.00
INITIAL          3   BC       26.00      0.07      2.40      0.00      0.00      0.00      2.00      0.00
INITIAL          4   BC       26.00      0.07      2.40      0.00      0.00      0.00      3.20      0.00
INITIAL          5   BC       25.90      0.12      0.92      0.00      0.00      0.00      3.50      0.00
INITIAL          6   BC       25.90      0.12      0.92      0.00      0.00      0.00      4.00      0.00
INITIAL          7   BC       25.90      0.12      0.92      0.00      0.00      0.00      5.00      0.00
INITIAL          8   BC       26.30      0.09      0.83      0.00      0.00      0.00     12.00      0.00
INITIAL          9   BF       26.30      0.09      0.83      0.00      0.00      0.00     19.20      0.00
INITIAL         10   BF       26.30      0.09      0.83      0.00      0.00      0.00     19.50      0.00
INITIAL         11   BF       26.60      0.09      1.44      0.00      0.00      0.00     19.50      0.00
INITIAL         12   BF       26.60      0.09      1.44      0.00      0.00      0.00     20.00      0.00
INITIAL         13   BF       27.90      0.10      0.88      0.00      0.00      0.00     21.00      0.00
INITIAL         14   BF       27.90      0.10      0.88      0.00      0.00      0.00     21.00      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   BC  11 TEXAS            0.000     0.000     0.000     2.000     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     2   BC  11 TEXAS            0.000     0.000     0.000     2.000     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     3   BC  11 TEXAS            0.000     0.000     0.000     1.000     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     4   BC  11 TEXAS            0.000     0.000     0.000     2.500     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     5   BC  11 TEXAS            0.000     0.000     0.000     4.000     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     6   BC  11 TEXAS            0.000     0.000     0.000     5.900     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     7   BC  11 TEXAS            0.000     0.000     0.000     5.900     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     8   BC  11 TEXAS            0.000     0.000     0.000     5.900     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1     9   BF  11 TEXAS            0.000     0.000     0.000     5.900     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    10   BF  11 TEXAS            0.000     0.000     0.000     5.500     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    11   BF  11 TEXAS            0.000     0.000     0.000     2.000     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    12   BF  11 TEXAS            0.000     0.000     0.000     2.000     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    13   BF  11 TEXAS            0.000     0.000     0.000     5.900     0.118     0.200     1.000     0.000     0.031     0.200     1.000     0.000
COEF-1    14   BF  11 TEXAS            0.000     0.000     0.000     5.900     0.118     0.200     1.000     0.000     0.031     0.200     1.000     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   BC       0.100     0.300     0.000     0.000     0.000     0.000     0.000
COEF-2           2   BC       0.100     0.300     0.000     0.000     0.000     0.000     0.000
COEF-2           3   BC       0.100     0.300     0.000     0.000     0.000     0.000     0.000
COEF-2           4   BC       0.100     0.300     0.000     0.000     0.000     0.000     0.000
COEF-2           5   BC       0.100     0.300     0.000     0.000     0.000     0.000     0.000
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COEF-2            6   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2            7   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2            8   BC       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2            9   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           10   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           11   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           12   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           13   BF       0.100     0.300     0.000       0.000     0.000     0.000     0.000
COEF-2           14   BF       0.100     0.300     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

ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

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   BC       60.00      0.00      0.00      0.00      0.00     50.00
NONPOINT           2   BC       50.00      0.00      0.00      0.00      0.00     20.00
NONPOINT           3   BC       75.00     80.00      0.00      0.00      0.00     40.00
NONPOINT           4   BC      100.00     25.00      0.00      0.00      0.00    120.00
NONPOINT           5   BC      200.00      5.00      0.00      0.00      0.00    150.00
NONPOINT           6   BC      120.00     30.00      0.00      0.00      0.00     10.00
NONPOINT           7   BC      150.00     30.00      0.00      0.00      0.00     35.00
NONPOINT           8   BC       90.00     70.00      0.00      0.00      0.00     30.00
NONPOINT           9   BF      280.00     85.00      0.00      0.00      0.00     25.00
NONPOINT          10   BF      300.00     75.00      0.00      0.00      0.00    210.00
NONPOINT          11   BF      600.00    195.00      0.00      0.00      0.00    300.00
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NONPOINT         12   BF      500.00    195.00      0.00      0.00      0.00    200.00
NONPOINT         13   BF      210.00     30.00      0.00      0.00      0.00     70.00
NONPOINT         14   BF      210.00     30.00      0.00      0.00      0.00     65.00
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     uS/cm      MG/L

HDWTR-1           1     BAYOU CUTOFF            0   1.03000   36.370   26.90     0.22   200.000     8.000   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 CUTOFF               3.90      5.92      2.43      0.00      0.00      4.23
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

HDWTR-3           1     BAYOU CUTOFF                0.00      0.00      0.00      0.00
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

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     uS/cm      MG/L

WSTLD-1       30      32.04  LAFOURCHE SD#1         0.00789    0.27846    0.180   27.00     0.00     0.000     0.000
WSTLD-1       50      31.24  DUGAS DITCH            0.00680    0.24011    0.155   30.00     0.00     0.000     0.000
WSTLD-1       63      30.46  GRAND MARNIER          0.00370    0.13058    0.084   26.00     0.00     0.000     0.000
WSTLD-1       93      28.66  ARPENT CANAL           0.00044    0.01547    0.010   26.00     0.00     0.000     0.000
WSTLD-1      109      27.38  THOROUGHBRED           0.00221    0.07797    0.050   26.00     0.00     0.000     0.000
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          30     LAFOURCHE SD#1             2.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          50     DUGAS DITCH                2.00     69.00      0.00     64.50      0.00      0.00      0.00      0.00
WSTLD-2          63     GRAND MARNIER              2.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
WSTLD-2          93     ARPENT CANAL               2.00      6.60      0.00      3.30      0.00      0.00      0.00      1.90
WSTLD-2         109     THOROUGHBRED               2.00     23.00      0.00     43.00      0.00      0.00      0.00      0.00
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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

WSTLD-3          30     LAFOURCHE SD#1              0.00      0.00      0.00      0.00
WSTLD-3          50     DUGAS DITCH                 0.00      0.00      0.00      0.00
WSTLD-3          63     GRAND MARNIER               0.00      0.00      0.00      0.00
WSTLD-3          93     ARPENT CANAL                0.00      0.00      0.00      0.00
WSTLD-3         109     THOROUGHBRED                0.00      0.00      0.00      0.00
ENDATA26

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

CARD TYPE    CONSTITUENT                     CONCENTRATION

LOWER BC     TEMPERATURE                        =     27.900     deg C
LOWER BC     SALINITY                           =      0.100     ppt
LOWER BC     CONSERVATIVE MATERIAL I            =    218.000     uS/cm
LOWER BC     CONSERVATIVE MATERIAL II           =     16.900     MG/L
LOWER BC     DISSOLVED OXYGEN                   =      0.880     mg/L
LOWER BC     BOD1 BIOCHEMICAL OXYGEN DEMAND     =      7.540     mg/L
LOWER BC     BOD2 BIOCHEMICAL OXYGEN DEMAND     =      3.960     mg/L
LOWER BC     NBOD                               =      1.760     mg/L
LOWER BC     CHLOROPHYLL A                      =     21.000     µg/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         CHLOR A       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         TEMPERAT       2.0      -2.0       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         BOD2 DEC      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 SET      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         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         HDW FLOW      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         DEPTH         30.0     -30.0       0.0       0.0       0.0       0.0       0.0       0.0
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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         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 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 =  2
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
NUMBER OF REACHES IN PLOT 2 =   4
PLOT RCH  1  2  3  4
ENDATA30

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


OVERLAY 1 OPDATA_1.TXT                     BAYOU CUTOFF AND BAYOU FOLSE
OVERLAY 2 OPDATA_1.TXT                     BAYOU CUTOFF AND BAYOU FOLSE
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  22 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 21
     .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 22


FINAL REPORT    BAYOU CUTOFF                                  WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO.  1    CUTOFF: THIBODAUX TO DUGAS DITCH              WATER QUALITY SENSITIVITY RUN ON CALIBRATION


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

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

    1  HDWTR     1.03000   26.90     0.22   200.00     8.00   3.90   5.92   4.23   5.92   4.23   2.43   0.00   0.00   0.00   2.00     0.00    0.00
   30  WSTLD     0.00789   27.00     0.00     0.00     0.00   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   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
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	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
1	33.20	33.16	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	11.59	0.000	3.852	0.154
2	33.16	33.12	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	23.17	0.000	3.852	0.154
3	33.12	33.08	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	34.76	0.000	3.852	0.154
4	33.08	33.04	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	46.35	0.000	3.852	0.154
5	33.04	33.00	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	57.94	0.000	3.852	0.154
6	33.00	32.96	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	69.52	0.000	3.852	0.154
7	32.96	32.92	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	81.11	0.000	3.852	0.154
8	32.92	32.88	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	92.70	0.000	3.852	0.154
9	32.88	32.84	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	104.29	0.000	3.852	0.154
10	32.84	32.80	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	115.87	0.000	3.852	0.154
11	32.80	32.76	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	127.46	0.000	3.852	0.154
12	32.76	32.72	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	139.05	0.000	3.852	0.154
13	32.72	32.68	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	150.64	0.000	3.852	0.154
14	32.68	32.64	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	162.22	0.001	3.852	0.154
15	32.64	32.60	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	173.81	0.001	3.852	0.154
16	32.60	32.56	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	185.40	0.001	3.852	0.154
17	32.56	32.52	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	196.98	0.001	3.852	0.154
18	32.52	32.48	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	208.57	0.001	3.852	0.154
19	32.48	32.44	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	220.16	0.001	3.852	0.154
20	32.44	32.40	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	231.75	0.001	3.852	0.154
21	32.40	32.36	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	243.33	0.001	3.852	0.154
22	32.36	32.32	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	254.92	0.001	3.852	0.154
23	32.32	32.28	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	266.51	0.001	3.852	0.154
24	32.28	32.24	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	278.10	0.001	3.852	0.154
25	32.24	32.20	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	289.68	0.001	3.852	0.154
26	32.20	32.16	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	301.27	0.001	3.852	0.154
27	32.16	32.12	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	312.86	0.001	3.852	0.154
28	32.12	32.08	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	324.44	0.001	3.852	0.154
29	32.08	32.04	1.03000	0.0	0.15374	0.00	0.65	10.35	267.98	414.01	6.70	336.03	0.001	3.852	0.154
30	32.04	32.00	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	347.63	0.001	3.878	0.155
31	32.00	31.96	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	359.22	0.001	3.878	0.155
32	31.96	31.92	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	370.82	0.001	3.878	0.155
33	31.92	31.88	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	382.41	0.001	3.878	0.155
34	31.88	31.84	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	394.00	0.001	3.878	0.155
35	31.84	31.80	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	405.60	0.001	3.878	0.155
36	31.80	31.76	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	417.19	0.001	3.878	0.155
37	31.76	31.72	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	428.79	0.001	3.878	0.155
38	31.72	31.68	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	440.38	0.001	3.878	0.155
39	31.68	31.64	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	451.98	0.001	3.878	0.155
40	31.64	31.60	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	463.57	0.001	3.878	0.155
41	31.60	31.56	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	475.17	0.002	3.878	0.155
42	31.56	31.52	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	486.76	0.002	3.878	0.155
43	31.52	31.48	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	498.35	0.002	3.878	0.155
44	31.48	31.44	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	509.95	0.002	3.878	0.155
45	31.44	31.40	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	521.54	0.002	3.878	0.155
46	31.40	31.36	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	533.14	0.002	3.878	0.155
47	31.36	31.32	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	544.73	0.002	3.878	0.155
48	31.32	31.28	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	556.33	0.002	3.878	0.155
49	31.28	31.24	1.03789	0.8	0.15455	0.00	0.65	10.36	268.61	414.26	6.72	567.92	0.002	3.878	0.155
TOT						0.15			13143.79	20291.44					
AVG					0.1541		0.65	10.35			6.71				
CUM						0.15									

********** 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	33.160	7.97	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.09	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
2	33.120	7.98	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.08	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
3	33.080	7.98	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.08	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
4	33.040	7.98	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.08	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
5	33.000	7.98	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.08	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
6	32.960	7.98	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.08	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
7	32.920	7.98	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.07	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
8	32.880	7.99	1.94	0.16	0.24	0.00	0.04	0.24	0.00	3.07	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
9	32.840	7.99	1.93	0.16	0.24	0.00	0.04	0.24	0.00	3.07	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
10	32.800	7.99	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.07	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
11	32.760	7.99	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.07	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
12	32.720	7.99	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.06	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
13	32.680	7.99	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.06	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
14	32.640	7.99	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.06	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
15	32.600	8.00	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.06	4.64	4.64	0.14	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
16	32.560	8.00	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.06	4.64	4.64	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
17	32.520	8.00	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.05	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
18	32.480	8.00	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.05	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
19	32.440	8.00	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.05	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
20	32.400	8.00	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.05	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
21	32.360	8.01	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.05	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
22	32.320	8.01	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.05	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
23	32.280	8.01	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.04	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
24	32.240	8.01	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.04	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
25	32.200	8.01	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.04	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
26	32.160	8.01	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.04	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
27	32.120	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.04	4.63	4.63	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
28	32.080	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.03	4.64	4.64	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
29	32.040	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.03	4.64	4.64	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
30	32.000	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.03	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
31	31.960	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.03	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
32	31.920	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.03	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
33	31.880	8.02	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.02	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
34	31.840	8.03	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.02	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
35	31.800	8.03	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.02	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
36	31.760	8.03	1.93	0.16	0.23	0.00	0.04	0.23	0.00	3.02	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
37	31.720	8.03	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.02	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
38	31.680	8.03	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.01	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
39	31.640	8.03	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.01	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
40	31.600	8.04	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.01	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
41	31.560	8.04	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.01	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
42	31.520	8.04	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.01	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
43	31.480	8.04	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.00	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
44	31.440	8.04	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.00	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
45	31.400	8.04	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.00	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
46	31.360	8.05	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.00	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
47	31.320	8.05	1.92	0.16	0.23	0.00	0.04	0.23	0.00	3.00	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
48	31.280	8.05	1.92	0.16	0.23	0.00	0.04	0.23	0.00	2.99	4.65	4.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
49	31.240	8.05	1.92	0.16	0.23	0.00	0.04	0.23	0.00	2.99	4.66	4.66	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.70	0.12	0.20	0.00	0.03	0.20	0.00	2.00			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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	33.160	26.89	0.22	200.00	8.00	3.90	5.93	4.24	5.93	4.24	2.42	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
2	33.120	26.88	0.21	200.00	8.00	3.90	5.94	4.25	5.94	4.25	2.42	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
3	33.080	26.87	0.21	200.00	8.00	3.89	5.94	4.26	5.94	4.26	2.42	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
4	33.040	26.86	0.21	200.00	8.00	3.89	5.95	4.27	5.95	4.27	2.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
5	33.000	26.85	0.21	200.00	8.00	3.89	5.96	4.27	5.96	4.27	2.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
6	32.960	26.84	0.20	200.00	8.00	3.89	5.96	4.28	5.96	4.28	2.41	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
7	32.920	26.83	0.20	200.00	8.00	3.89	5.97	4.29	5.97	4.29	2.40	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
8	32.880	26.82	0.20	200.00	8.00	3.88	5.98	4.30	5.98	4.30	2.40	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
9	32.840	26.81	0.20	200.00	8.00	3.88	5.98	4.31	5.98	4.31	2.40	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
10	32.800	26.80	0.19	200.00	8.00	3.88	5.99	4.31	5.99	4.31	2.39	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
11	32.760	26.79	0.19	200.00	8.00	3.88	6.00	4.32	6.00	4.32	2.39	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
12	32.720	26.78	0.19	200.00	8.00	3.88	6.00	4.33	6.00	4.33	2.39	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
13	32.680	26.77	0.19	200.00	8.00	3.88	6.01	4.34	6.01	4.34	2.38	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
14	32.640	26.76	0.18	200.00	8.00	3.88	6.02	4.35	6.02	4.35	2.38	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
15	32.600	26.75	0.18	200.00	8.00	3.87	6.02	4.35	6.02	4.35	2.37	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
16	32.560	26.74	0.18	200.00	8.00	3.87	6.03	4.36	6.03	4.36	2.37	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
17	32.520	26.73	0.17	200.00	8.00	3.87	6.04	4.37	6.04	4.37	2.37	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
18	32.480	26.72	0.17	200.00	8.00	3.87	6.04	4.38	6.04	4.38	2.36	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
19	32.440	26.71	0.17	200.00	8.00	3.87	6.05	4.38	6.05	4.38	2.36	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
20	32.400	26.70	0.17	200.00	8.00	3.87	6.06	4.39	6.06	4.39	2.36	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
21	32.360	26.69	0.16	200.00	8.00	3.86	6.06	4.40	6.06	4.40	2.35	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
22	32.320	26.68	0.16	200.00	8.00	3.86	6.07	4.41	6.07	4.41	2.35	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
23	32.280	26.67	0.16	200.00	8.00	3.86	6.08	4.42	6.08	4.42	2.35	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
24	32.240	26.66	0.16	200.00	8.00	3.86	6.08	4.42	6.08	4.42	2.34	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
25	32.200	26.64	0.15	199.99	8.00	3.86	6.09	4.43	6.09	4.43	2.34	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
26	32.160	26.63	0.15	199.97	8.00	3.86	6.10	4.44	6.10	4.44	2.34	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
27	32.120	26.62	0.15	199.91	8.00	3.85	6.11	4.44	6.11	4.44	2.35	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
28	32.080	26.61	0.15	199.77	7.99	3.85	6.13	4.45	6.13	4.45	2.38	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
29	32.040	26.60	0.14	199.41	7.98	3.85	6.16	4.45	6.16	4.45	2.45	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
30	32.000	26.59	0.14	198.48	7.94	3.84	6.25	4.44	6.25	4.44	2.63	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
31	31.960	26.58	0.14	198.48	7.94	3.84	6.26	4.44	6.26	4.44	2.63	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
32	31.920	26.57	0.14	198.48	7.94	3.83	6.26	4.45	6.26	4.45	2.62	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
33	31.880	26.56	0.13	198.48	7.94	3.83	6.27	4.46	6.27	4.46	2.62	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
34	31.840	26.55	0.13	198.48	7.94	3.83	6.27	4.47	6.27	4.47	2.62	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
35	31.800	26.54	0.13	198.48	7.94	3.83	6.28	4.47	6.28	4.47	2.61	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
36	31.760	26.53	0.12	198.48	7.94	3.83	6.29	4.48	6.29	4.48	2.61	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
37	31.720	26.52	0.12	198.48	7.94	3.83	6.29	4.49	6.29	4.49	2.61	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
38	31.680	26.51	0.12	198.48	7.94	3.83	6.30	4.50	6.30	4.50	2.60	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
39	31.640	26.50	0.12	198.48	7.94	3.82	6.31	4.51	6.31	4.51	2.60	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
40	31.600	26.49	0.11	198.48	7.94	3.82	6.31	4.51	6.31	4.51	2.59	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
41	31.560	26.48	0.11	198.48	7.94	3.82	6.32	4.52	6.32	4.52	2.59	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
42	31.520	26.47	0.11	198.48	7.94	3.82	6.32	4.53	6.32	4.53	2.59	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
43	31.480	26.46	0.11	198.48	7.94	3.82	6.33	4.54	6.33	4.54	2.58	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
44	31.440	26.45	0.10	198.48	7.94	3.82	6.34	4.54	6.34	4.54	2.58	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
45	31.400	26.44	0.10	198.47	7.94	3.82	6.35	4.55	6.35	4.55	2.58	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
46	31.360	26.43	0.10	198.45	7.94	3.81	6.36	4.56	6.36	4.56	2.58	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
47	31.320	26.42	0.10	198.41	7.94	3.81	6.38	4.56	6.38	4.56	2.59	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
48	31.280	26.41	0.09	198.28	7.93	3.80	6.42	4.57	6.42	4.57	2.62	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
49	31.240	26.40	0.09	197.97	7.92	3.79	6.51	4.56	6.51	4.56	2.71	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 2 CUTOFF: DUGAS DITCH TO ARPENT C WATER QUALITY SENSITIVITY RUN ON CALIBRATION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
50	UPR RCH	1.03789	26.40	0.09	197.97	7.92	3.79	6.51	4.56	6.51	4.56	2.71	0.00	0.00	0.00	2.00	0.00	0.00
50	WSTLD	0.00680	30.00	0.00	0.00	0.00	2.00	69.00	0.00	69.00	0.00	64.50	0.00	0.00	0.00	0.00	0.00	0.00
63	WSTLD	0.00370	26.00	0.00	0.00	0.00	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
50	31.24	31.18	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	594.03	0.001	2.454	0.066
51	31.18	31.12	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	620.13	0.001	2.454	0.066
52	31.12	31.06	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	646.24	0.001	2.454	0.066
53	31.06	31.00	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	672.34	0.001	2.454	0.066
54	31.00	30.94	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	698.45	0.001	2.454	0.066
55	30.94	30.88	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	724.56	0.001	2.454	0.066
56	30.88	30.82	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	750.66	0.001	2.454	0.066
57	30.82	30.76	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	776.77	0.001	2.454	0.066
58	30.76	30.70	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	802.87	0.001	2.454	0.066
59	30.70	30.64	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	828.98	0.001	2.454	0.066
60	30.64	30.58	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	855.08	0.001	2.454	0.066
61	30.58	30.52	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	881.19	0.001	2.454	0.066
62	30.52	30.46	1.04469	1.4	0.06633	0.01	1.03	15.24	944.95	914.65	15.75	907.30	0.001	2.454	0.066
63	30.46	30.40	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	933.41	0.001	2.462	0.067
64	30.40	30.34	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	959.52	0.001	2.462	0.067
65	30.34	30.28	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	985.63	0.001	2.462	0.067
66	30.28	30.22	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1011.74	0.001	2.462	0.067
67	30.22	30.16	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1037.86	0.001	2.462	0.067
68	30.16	30.10	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1063.97	0.001	2.462	0.067
69	30.10	30.04	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1090.08	0.001	2.462	0.067
70	30.04	29.98	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1116.19	0.002	2.462	0.067
71	29.98	29.92	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1142.30	0.002	2.462	0.067
72	29.92	29.86	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1168.41	0.002	2.462	0.067
73	29.86	29.80	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1194.53	0.002	2.462	0.067
74	29.80	29.74	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1220.64	0.002	2.462	0.067
75	29.74	29.68	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1246.75	0.002	2.462	0.067
76	29.68	29.62	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1272.86	0.002	2.462	0.067
77	29.62	29.56	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1298.97	0.002	2.462	0.067
78	29.56	29.50	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1325.09	0.002	2.462	0.067
79	29.50	29.44	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1351.20	0.002	2.462	0.067
80	29.44	29.38	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1377.31	0.002	2.462	0.067
81	29.38	29.32	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1403.42	0.002	2.462	0.067
82	29.32	29.26	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1429.53	0.002	2.462	0.067
83	29.26	29.20	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1455.64	0.002	2.462	0.067
84	29.20	29.14	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1481.76	0.002	2.462	0.067
85	29.14	29.08	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1507.87	0.002	2.462	0.067
86	29.08	29.02	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1533.98	0.002	2.462	0.067
87	29.02	28.96	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1560.09	0.002	2.462	0.067

88	28.96	28.90	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1586.20	0.002	2.462	0.067
89	28.90	28.84	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1612.32	0.002	2.462	0.067
90	28.84	28.78	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1638.43	0.002	2.462	0.067
91	28.78	28.72	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1664.54	0.002	2.462	0.067
92	28.72	28.66	1.04838	1.8	0.06654	0.01	1.03	15.25	945.40	914.85	15.76	1690.65	0.002	2.462	0.067
TOT						0.45			40646.25	39336.05					
AVG					0.0665		1.03	15.25			15.75				
CUM						0.60									

********** 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
50	31.180	8.05	1.01	0.16	0.23	0.00	0.04	0.23	0.00	2.99	5.70	5.70	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
51	31.120	8.05	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.99	5.70	5.69	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
52	31.060	8.05	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.99	5.69	5.69	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
53	31.000	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.99	5.68	5.68	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
54	30.940	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.98	5.67	5.67	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
55	30.880	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.98	5.67	5.66	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
56	30.820	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.98	5.66	5.66	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
57	30.760	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.98	5.65	5.65	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
58	30.700	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.98	5.64	5.64	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
59	30.640	8.06	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.98	5.64	5.63	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
60	30.580	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.97	5.63	5.63	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
61	30.520	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.97	5.62	5.62	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
62	30.460	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.97	5.62	5.62	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
63	30.400	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.97	5.62	5.61	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
64	30.340	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.97	5.61	5.61	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
65	30.280	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.96	5.60	5.60	0.13	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
66	30.220	8.07	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.96	5.59	5.59	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
67	30.160	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.96	5.59	5.59	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
68	30.100	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.96	5.58	5.58	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
69	30.040	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.96	5.57	5.57	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
70	29.980	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.96	5.56	5.56	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
71	29.920	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.95	5.56	5.56	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
72	29.860	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.95	5.55	5.55	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
73	29.800	8.08	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.95	5.54	5.54	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
74	29.740	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.95	5.53	5.53	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
75	29.680	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.95	5.53	5.53	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
76	29.620	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.95	5.52	5.52	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
77	29.560	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.94	5.51	5.51	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
78	29.500	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.94	5.51	5.51	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
79	29.440	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.94	5.50	5.50	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
80	29.380	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.94	5.49	5.49	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
81	29.320	8.09	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.94	5.49	5.49	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
82	29.260	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.94	5.48	5.48	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
83	29.200	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.93	5.47	5.47	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
84	29.140	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.93	5.46	5.46	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
85	29.080	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.93	5.46	5.46	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
86	29.020	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.93	5.45	5.45	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
87	28.960	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.93	5.44	5.44	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
88	28.900	8.10	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.93	5.44	5.44	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
89	28.840	8.11	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.92	5.43	5.43	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
90	28.780	8.11	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.92	5.42	5.42	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00

91	28.720	8.11	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.92	5.42	5.42	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
92	28.660	8.11	1.00	0.16	0.23	0.00	0.04	0.23	0.00	2.92	5.41	5.41	0.12	0.35	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.89	0.12	0.20	0.00	0.03	0.20	0.00	2.00			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
50	31.180	26.39	0.09	197.19	7.89	3.75	6.75	4.53	6.75	4.53	2.94	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
51	31.120	26.38	0.09	197.19	7.89	3.73	6.73	4.53	6.73	4.53	2.93	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
52	31.060	26.37	0.09	197.19	7.89	3.70	6.72	4.52	6.72	4.52	2.91	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
53	31.000	26.36	0.09	197.19	7.89	3.67	6.70	4.51	6.70	4.51	2.90	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
54	30.940	26.35	0.09	197.19	7.89	3.65	6.69	4.50	6.69	4.50	2.88	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
55	30.880	26.34	0.09	197.19	7.89	3.62	6.68	4.50	6.68	4.50	2.87	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
56	30.820	26.33	0.09	197.19	7.89	3.60	6.66	4.49	6.66	4.49	2.86	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
57	30.760	26.33	0.09	197.19	7.89	3.57	6.65	4.48	6.65	4.48	2.84	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
58	30.700	26.32	0.09	197.18	7.89	3.55	6.63	4.47	6.63	4.47	2.83	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
59	30.640	26.31	0.09	197.17	7.89	3.52	6.62	4.46	6.62	4.46	2.82	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
60	30.580	26.30	0.08	197.15	7.89	3.50	6.61	4.46	6.61	4.46	2.81	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
61	30.520	26.29	0.08	197.09	7.88	3.47	6.60	4.45	6.60	4.45	2.81	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
62	30.460	26.28	0.08	196.92	7.88	3.45	6.60	4.44	6.60	4.44	2.83	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
63	30.400	26.27	0.08	196.49	7.86	3.42	6.62	4.42	6.62	4.42	2.90	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
64	30.340	26.26	0.08	196.49	7.86	3.40	6.61	4.41	6.61	4.41	2.88	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
65	30.280	26.25	0.08	196.49	7.86	3.38	6.59	4.40	6.59	4.40	2.87	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
66	30.220	26.24	0.08	196.49	7.86	3.36	6.58	4.40	6.58	4.40	2.86	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
67	30.160	26.23	0.08	196.49	7.86	3.33	6.56	4.39	6.56	4.39	2.84	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
68	30.100	26.22	0.08	196.49	7.86	3.31	6.55	4.38	6.55	4.38	2.83	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
69	30.040	26.21	0.08	196.49	7.86	3.29	6.54	4.37	6.54	4.37	2.81	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
70	29.980	26.20	0.08	196.49	7.86	3.27	6.52	4.37	6.52	4.37	2.80	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
71	29.920	26.20	0.08	196.49	7.86	3.25	6.51	4.36	6.51	4.36	2.79	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
72	29.860	26.19	0.08	196.49	7.86	3.23	6.50	4.35	6.50	4.35	2.77	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
73	29.800	26.18	0.08	196.49	7.86	3.21	6.48	4.35	6.48	4.35	2.76	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
74	29.740	26.17	0.08	196.49	7.86	3.19	6.47	4.34	6.47	4.34	2.75	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
75	29.680	26.16	0.08	196.49	7.86	3.17	6.46	4.33	6.46	4.33	2.73	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
76	29.620	26.15	0.08	196.49	7.86	3.16	6.44	4.32	6.44	4.32	2.72	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
77	29.560	26.14	0.08	196.49	7.86	3.14	6.43	4.32	6.43	4.32	2.71	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
78	29.500	26.13	0.08	196.49	7.86	3.12	6.42	4.31	6.42	4.31	2.69	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
79	29.440	26.12	0.08	196.49	7.86	3.10	6.40	4.30	6.40	4.30	2.68	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
80	29.380	26.11	0.08	196.49	7.86	3.08	6.39	4.30	6.39	4.30	2.67	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
81	29.320	26.10	0.08	196.49	7.86	3.07	6.38	4.29	6.38	4.29	2.65	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
82	29.260	26.09	0.07	196.49	7.86	3.05	6.37	4.28	6.37	4.28	2.64	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
83	29.200	26.08	0.07	196.49	7.86	3.03	6.35	4.27	6.35	4.27	2.63	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
84	29.140	26.07	0.07	196.49	7.86	3.02	6.34	4.27	6.34	4.27	2.62	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
85	29.080	26.07	0.07	196.49	7.86	3.00	6.33	4.26	6.33	4.26	2.60	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
86	29.020	26.06	0.07	196.49	7.86	2.99	6.31	4.25	6.31	4.25	2.59	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
87	28.960	26.05	0.07	196.49	7.86	2.97	6.30	4.25	6.30	4.25	2.58	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
88	28.900	26.04	0.07	196.49	7.86	2.96	6.29	4.24	6.29	4.24	2.57	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
89	28.840	26.03	0.07	196.49	7.86	2.94	6.28	4.23	6.28	4.23	2.56	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
90	28.780	26.02	0.07	196.49	7.86	2.93	6.27	4.23	6.27	4.23	2.55	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
91	28.720	26.01	0.07	196.48	7.86	2.91	6.26	4.22	6.26	4.22	2.54	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00
92	28.660	26.00	0.07	196.46	7.86	2.90	6.25	4.22	6.25	4.22	2.55	0.00	0.00	0.00	0.00	2.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 3 CUTOFF: ARPENT TO THOROUGHBRED WATER QUALITY SENSITIVITY RUN ON CALIBRATION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
93	UPR RCH	1.04838	26.00	0.07	196.46	7.86	2.90	6.25	4.22	6.25	4.22	2.55	0.00	0.00	0.00	2.00	0.00	0.00
93	WSTLD	0.00044	26.00	0.00	0.00	0.00	2.00	6.60	1.90	6.60	1.90	3.30	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
93	28.66	28.58	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	1738.83	0.001	1.759	0.041
94	28.58	28.50	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	1787.01	0.001	1.759	0.041
95	28.50	28.42	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	1835.19	0.002	1.759	0.041
96	28.42	28.34	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	1883.37	0.002	1.759	0.041
97	28.34	28.26	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	1931.55	0.002	1.759	0.041
98	28.26	28.18	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	1979.74	0.002	1.759	0.041
99	28.18	28.10	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2027.92	0.002	1.759	0.041
100	28.10	28.02	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2076.10	0.002	1.759	0.041
101	28.02	27.94	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2124.28	0.002	1.759	0.041
102	27.94	27.86	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2172.46	0.002	1.759	0.041
103	27.86	27.78	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2220.64	0.002	1.759	0.041
104	27.78	27.70	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2268.82	0.002	1.759	0.041
105	27.70	27.62	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2317.00	0.002	1.759	0.041
TOT						0.29			26569.84	21558.71					
AVG					0.0411		1.23	20.73			25.55				
CUM						0.89									

********** 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
93	28.580	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.44	4.44	0.12	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
94	28.500	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.45	4.45	0.12	0.35	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
95	28.420	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.45	4.45	0.12	0.35	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
96	28.340	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.45	4.45	0.12	0.35	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
97	28.260	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.46	4.46	0.12	0.35	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
98	28.180	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.46	4.46	0.12	0.35	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
99	28.100	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.47	4.47	0.11	0.35	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
100	28.020	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.47	4.47	0.11	0.35	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
101	27.940	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.48	4.48	0.11	0.35	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
102	27.860	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.48	4.48	0.11	0.35	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
103	27.780	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.49	4.49	0.11	0.35	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
104	27.700	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.49	4.49	0.11	0.35	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
105	27.620	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	1.46	4.49	4.49	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.67 0.12 0.20 0.00 0.03 0.20 0.00 1.00 0.10 0.30 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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
93	28.580	26.00	0.07	196.41	7.86	2.87	6.26	4.23	6.26	4.23	2.59	0.00	0.00	0.00	0.00	2.09	0.00	0.	0.00
94	28.500	26.00	0.07	196.41	7.86	2.85	6.27	4.24	6.27	4.24	2.63	0.00	0.00	0.00	0.00	2.18	0.00	0.	0.00
95	28.420	26.00	0.07	196.41	7.86	2.83	6.28	4.24	6.28	4.24	2.67	0.00	0.00	0.00	0.00	2.28	0.00	0.	0.00
96	28.340	26.00	0.07	196.41	7.86	2.81	6.29	4.25	6.29	4.25	2.71	0.00	0.00	0.00	0.00	2.37	0.00	0.	0.00
97	28.260	26.00	0.07	196.41	7.86	2.79	6.30	4.26	6.30	4.26	2.75	0.00	0.00	0.00	0.00	2.46	0.00	0.	0.00
98	28.180	26.00	0.07	196.41	7.86	2.77	6.31	4.27	6.31	4.27	2.79	0.00	0.00	0.00	0.00	2.55	0.00	0.	0.00
99	28.100	26.00	0.07	196.41	7.86	2.75	6.31	4.28	6.31	4.28	2.82	0.00	0.00	0.00	0.00	2.65	0.00	0.	0.00
100	28.020	26.00	0.07	196.41	7.86	2.73	6.32	4.28	6.32	4.28	2.86	0.00	0.00	0.00	0.00	2.74	0.00	0.	0.00
101	27.940	26.00	0.07	196.41	7.86	2.71	6.33	4.29	6.33	4.29	2.90	0.00	0.00	0.00	0.00	2.83	0.00	0.	0.00
102	27.860	26.00	0.07	196.41	7.86	2.69	6.34	4.30	6.34	4.30	2.94	0.00	0.00	0.00	0.00	2.92	0.00	0.	0.00
103	27.780	26.00	0.07	196.41	7.86	2.66	6.35	4.31	6.35	4.31	2.97	0.00	0.00	0.00	0.00	3.02	0.00	0.	0.00
104	27.700	26.00	0.07	196.41	7.86	2.64	6.35	4.31	6.35	4.31	3.00	0.00	0.00	0.00	0.00	3.11	0.00	0.	0.00
105	27.620	26.00	0.07	196.40	7.86	2.61	6.35	4.32	6.35	4.32	3.02	0.00	0.00	0.00	0.00	3.20	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 4 CUTOFF:THOROUGHBRED TO RKM 24.66 WATER QUALITY SENSITIVITY RUN ON CALIBRATION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
106	UPR RCH	1.04882	26.00	0.07	196.40	7.86	2.61	6.35	4.32	6.35	4.32	3.02	0.00	0.00	0.00	3.20	0.00	0.00
109	WSTLD	0.00221	26.00	0.00	0.00	0.00	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
106	27.62	27.54	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2366.24	0.002	1.759	0.041
107	27.54	27.46	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2415.48	0.002	1.759	0.041
108	27.46	27.38	1.04882	1.8	0.04105	0.02	1.23	20.73	2043.83	1658.36	25.55	2464.72	0.002	1.759	0.041
109	27.38	27.30	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2513.96	0.002	1.763	0.041
110	27.30	27.22	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2563.21	0.002	1.763	0.041
111	27.22	27.14	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2612.45	0.002	1.763	0.041
112	27.14	27.06	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2661.69	0.002	1.763	0.041
113	27.06	26.98	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2710.93	0.002	1.763	0.041
114	26.98	26.90	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2760.18	0.002	1.763	0.041
115	26.90	26.82	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2809.42	0.002	1.763	0.041
116	26.82	26.74	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2858.66	0.002	1.763	0.041
117	26.74	26.66	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2907.90	0.002	1.763	0.041
118	26.66	26.58	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	2957.15	0.002	1.763	0.041
119	26.58	26.50	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3006.39	0.003	1.763	0.041

120	26.50	26.42	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3055.63	0.003	1.763	0.041
121	26.42	26.34	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3104.87	0.003	1.763	0.041
122	26.34	26.26	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3154.12	0.003	1.763	0.041
123	26.26	26.18	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3203.36	0.003	1.763	0.041
124	26.18	26.10	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3252.60	0.003	1.763	0.041
125	26.10	26.02	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3301.84	0.003	1.763	0.041
126	26.02	25.94	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3351.09	0.003	1.763	0.041
127	25.94	25.86	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3400.33	0.003	1.763	0.041
128	25.86	25.78	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3449.57	0.003	1.763	0.041
129	25.78	25.70	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3498.81	0.003	1.763	0.041
130	25.70	25.62	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3548.06	0.003	1.763	0.041
131	25.62	25.54	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3597.30	0.003	1.763	0.041
132	25.54	25.46	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3646.54	0.003	1.763	0.041
133	25.46	25.38	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3695.78	0.003	1.763	0.041
134	25.38	25.30	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3745.02	0.003	1.763	0.041
135	25.30	25.22	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3794.27	0.003	1.763	0.041
136	25.22	25.14	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3843.51	0.003	1.763	0.041
137	25.14	25.06	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3892.75	0.003	1.763	0.041
138	25.06	24.98	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3941.99	0.003	1.763	0.041
139	24.98	24.90	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	3991.24	0.003	1.763	0.041
140	24.90	24.82	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	4040.48	0.003	1.763	0.041
141	24.82	24.74	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	4089.72	0.003	1.763	0.041
142	24.74	24.66	1.05103	2.0	0.04113	0.02	1.23	20.73	2044.10	1658.43	25.55	4138.96	0.003	1.763	0.041
TOT						0.83			75631.05	61361.82					
AVG					0.0411		1.23	20.73			25.55				
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
106	27.540	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.65	6.67	6.68	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
107	27.460	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.65	6.67	6.67	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
108	27.380	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.65	6.67	6.67	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
109	27.300	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.65	6.67	6.67	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
110	27.220	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.66	6.66	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
111	27.140	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.66	6.66	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
112	27.060	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.65	6.65	0.11	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
113	26.980	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.65	6.65	0.10	0.35	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
114	26.900	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.64	6.64	0.10	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
115	26.820	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.64	6.64	0.10	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
116	26.740	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.63	6.63	0.10	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
117	26.660	8.11	0.75	0.16	0.23	0.00	0.04	0.23	0.00	3.64	6.63	6.63	0.10	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
118	26.580	8.11	0.75	0.15	0.23	0.00	0.04	0.23	0.00	3.64	6.62	6.51	0.10	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
119	26.500	8.11	0.75	0.15	0.23	0.00	0.04	0.23	0.00	3.64	6.62	6.38	0.09	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
120	26.420	8.11	0.75	0.15	0.23	0.00	0.04	0.23	0.00	3.64	6.61	6.27	0.09	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
121	26.340	8.12	0.75	0.14	0.23	0.00	0.04	0.23	0.00	3.64	6.61	6.17	0.08	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
122	26.260	8.12	0.75	0.14	0.23	0.00	0.04	0.23	0.00	3.64	6.60	6.08	0.08	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
123	26.180	8.12	0.75	0.14	0.23	0.00	0.04	0.23	0.00	3.64	6.60	5.99	0.07	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
124	26.100	8.12	0.75	0.14	0.23	0.00	0.04	0.23	0.00	3.64	6.60	5.91	0.07	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
125	26.020	8.12	0.75	0.14	0.23	0.00	0.04	0.23	0.00	3.64	6.59	5.84	0.07	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
126	25.940	8.12	0.75	0.14	0.23	0.00	0.04	0.23	0.00	3.63	6.59	5.78	0.06	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
127	25.860	8.12	0.75	0.13	0.23	0.00	0.04	0.23	0.00	3.63	6.59	5.72	0.06	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
128	25.780	8.12	0.75	0.13	0.23	0.00	0.04	0.23	0.00	3.63	6.58	5.67	0.06	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00

129	25.700	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.58	5.62	0.06	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
130	25.620	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.58	5.58	0.06	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
131	25.540	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.57	5.54	0.05	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
132	25.460	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.57	5.50	0.05	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
133	25.380	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.57	5.47	0.05	0.35	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
134	25.300	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.56	5.44	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
135	25.220	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.56	5.41	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
136	25.140	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.56	5.39	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
137	25.060	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.55	5.37	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
138	24.980	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.55	5.35	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
139	24.900	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.55	5.33	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
140	24.820	8.12	0.75	0.13	0.23	0.00	0.03	0.23	0.00	3.63	6.55	5.31	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
141	24.740	8.12	0.75	0.12	0.23	0.00	0.03	0.23	0.00	3.63	6.54	5.28	0.05	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
142	24.660	8.12	0.75	0.12	0.23	0.00	0.03	0.23	0.00	3.62	6.54	5.22	0.04	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.67	0.12	0.20	0.00	0.03	0.20	0.00	2.50			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
106	27.540	26.00	0.07	196.39	7.86	2.55	6.32	4.33	6.32	4.33	3.00	0.00	0.00	0.00	0.00	3.21	0.00	0.	0.00
107	27.460	25.99	0.07	196.36	7.85	2.50	6.30	4.34	6.30	4.34	2.98	0.00	0.00	0.00	0.00	3.22	0.00	0.	0.00
108	27.380	25.99	0.07	196.27	7.85	2.44	6.28	4.35	6.28	4.35	2.97	0.00	0.00	0.00	0.00	3.22	0.00	0.	0.00
109	27.300	25.99	0.08	196.00	7.84	2.39	6.28	4.35	6.28	4.35	3.01	0.00	0.00	0.00	0.00	3.23	0.00	0.	0.00
110	27.220	25.99	0.08	196.00	7.84	2.34	6.26	4.36	6.26	4.36	2.98	0.00	0.00	0.00	0.00	3.24	0.00	0.	0.00
111	27.140	25.98	0.08	196.00	7.84	2.28	6.23	4.37	6.23	4.37	2.96	0.00	0.00	0.00	0.00	3.25	0.00	0.	0.00
112	27.060	25.98	0.08	196.00	7.84	2.23	6.21	4.38	6.21	4.38	2.94	0.00	0.00	0.00	0.00	3.26	0.00	0.	0.00
113	26.980	25.98	0.08	196.00	7.84	2.19	6.19	4.39	6.19	4.39	2.92	0.00	0.00	0.00	0.00	3.26	0.00	0.	0.00
114	26.900	25.98	0.08	196.00	7.84	2.14	6.16	4.39	6.16	4.39	2.89	0.00	0.00	0.00	0.00	3.27	0.00	0.	0.00
115	26.820	25.97	0.08	196.00	7.84	2.09	6.14	4.40	6.14	4.40	2.87	0.00	0.00	0.00	0.00	3.28	0.00	0.	0.00
116	26.740	25.97	0.08	196.00	7.84	2.05	6.12	4.41	6.12	4.41	2.85	0.00	0.00	0.00	0.00	3.29	0.00	0.	0.00
117	26.660	25.97	0.09	196.00	7.84	2.00	6.09	4.42	6.09	4.42	2.83	0.00	0.00	0.00	0.00	3.30	0.00	0.	0.00
118	26.580	25.96	0.09	196.00	7.84	1.96	6.07	4.43	6.07	4.43	2.81	0.00	0.00	0.00	0.00	3.31	0.00	0.	0.00
119	26.500	25.96	0.09	196.00	7.84	1.93	6.05	4.44	6.05	4.44	2.79	0.00	0.00	0.00	0.00	3.31	0.00	0.	0.00
120	26.420	25.96	0.09	196.00	7.84	1.90	6.03	4.45	6.03	4.45	2.77	0.00	0.00	0.00	0.00	3.32	0.00	0.	0.00
121	26.340	25.96	0.09	196.00	7.84	1.87	6.01	4.46	6.01	4.46	2.75	0.00	0.00	0.00	0.00	3.33	0.00	0.	0.00
122	26.260	25.95	0.09	196.00	7.84	1.84	5.99	4.46	5.99	4.46	2.74	0.00	0.00	0.00	0.00	3.34	0.00	0.	0.00
123	26.180	25.95	0.09	196.00	7.84	1.82	5.97	4.47	5.97	4.47	2.72	0.00	0.00	0.00	0.00	3.35	0.00	0.	0.00
124	26.100	25.95	0.10	196.00	7.84	1.79	5.95	4.48	5.95	4.48	2.70	0.00	0.00	0.00	0.00	3.35	0.00	0.	0.00
125	26.020	25.95	0.10	196.00	7.84	1.77	5.93	4.49	5.93	4.49	2.68	0.00	0.00	0.00	0.00	3.36	0.00	0.	0.00
126	25.940	25.94	0.10	196.00	7.84	1.75	5.91	4.50	5.91	4.50	2.67	0.00	0.00	0.00	0.00	3.37	0.00	0.	0.00
127	25.860	25.94	0.10	196.00	7.84	1.74	5.89	4.51	5.89	4.51	2.65	0.00	0.00	0.00	0.00	3.38	0.00	0.	0.00
128	25.780	25.94	0.10	196.00	7.84	1.72	5.87	4.52	5.87	4.52	2.63	0.00	0.00	0.00	0.00	3.39	0.00	0.	0.00
129	25.700	25.94	0.10	196.00	7.84	1.71	5.86	4.53	5.86	4.53	2.62	0.00	0.00	0.00	0.00	3.39	0.00	0.	0.00
130	25.620	25.93	0.10	196.00	7.84	1.70	5.84	4.53	5.84	4.53	2.60	0.00	0.00	0.00	0.00	3.40	0.00	0.	0.00
131	25.540	25.93	0.11	196.00	7.84	1.69	5.82	4.54	5.82	4.54	2.58	0.00	0.00	0.00	0.00	3.41	0.00	0.	0.00
132	25.460	25.93	0.11	196.00	7.84	1.68	5.80	4.55	5.80	4.55	2.57	0.00	0.00	0.00	0.00	3.42	0.00	0.	0.00
133	25.380	25.92	0.11	196.00	7.84	1.67	5.79	4.56	5.79	4.56	2.55	0.00	0.00	0.00	0.00	3.43	0.00	0.	0.00
134	25.300	25.92	0.11	196.00	7.84	1.66	5.77	4.57	5.77	4.57	2.54	0.00	0.00	0.00	0.00	3.44	0.00	0.	0.00
135	25.220	25.92	0.11	196.00	7.84	1.65	5.75	4.58	5.75	4.58	2.52	0.00	0.00	0.00	0.00	3.44	0.00	0.	0.00
136	25.140	25.92	0.11	196.00	7.84	1.64	5.74	4.59	5.74	4.59	2.51	0.00	0.00	0.00	0.00	3.45	0.00	0.	0.00
137	25.060	25.91	0.11	196.00	7.84	1.64	5.72	4.59	5.72	4.59	2.49	0.00	0.00	0.00	0.00	3.46	0.00	0.	0.00
138	24.980	25.91	0.11	196.00	7.84	1.63	5.70	4.60	5.70	4.60	2.48	0.00	0.00	0.00	0.00	3.47	0.00	0.	0.00

139	24.900	25.91	0.12	196.00	7.84	1.63	5.69	4.61	5.69	4.61	2.47	0.00	0.00	0.00	0.00	3.48	0.00	0.	0.00
140	24.820	25.91	0.12	196.00	7.84	1.62	5.67	4.62	5.67	4.62	2.45	0.00	0.00	0.00	0.00	3.48	0.00	0.	0.00
141	24.740	25.90	0.12	196.00	7.84	1.61	5.66	4.63	5.66	4.63	2.44	0.00	0.00	0.00	0.00	3.49	0.00	0.	0.00
142	24.660	25.90	0.12	196.00	7.84	1.59	5.65	4.64	5.65	4.64	2.42	0.00	0.00	0.00	0.00	3.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 5 CUTOFF: RKM 24.66 TO ST CHAS WATER QUALITY SENSITIVITY RUN ON CALIBRATION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
143	UPR RCH	1.05103	25.90	0.12	196.00	7.84	1.59	5.65	4.64	5.65	4.64	2.42	0.00	0.00	0.00	3.50	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
143	24.66	24.58	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4200.75	0.003	1.434	0.032
144	24.58	24.50	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4262.54	0.003	1.434	0.032
145	24.50	24.42	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4324.33	0.003	1.434	0.032
146	24.42	24.34	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4386.12	0.003	1.434	0.032
147	24.34	24.26	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4447.90	0.003	1.434	0.032
148	24.26	24.18	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4509.69	0.003	1.434	0.032
149	24.18	24.10	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4571.48	0.003	1.434	0.032
150	24.10	24.02	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4633.27	0.003	1.434	0.032
151	24.02	23.94	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4695.06	0.003	1.434	0.032
152	23.94	23.86	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4756.85	0.003	1.434	0.032
153	23.86	23.78	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4818.63	0.003	1.434	0.032
154	23.78	23.70	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4880.42	0.003	1.434	0.032
155	23.70	23.62	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	4942.21	0.003	1.434	0.032
156	23.62	23.54	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5004.00	0.003	1.434	0.032
157	23.54	23.46	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5065.79	0.003	1.434	0.032
158	23.46	23.38	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5127.57	0.003	1.434	0.032
159	23.38	23.30	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5189.36	0.003	1.434	0.032
160	23.30	23.22	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5251.15	0.003	1.434	0.032
161	23.22	23.14	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5312.94	0.003	1.434	0.032
162	23.14	23.06	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5374.73	0.003	1.434	0.032
163	23.06	22.98	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5436.51	0.003	1.434	0.032
164	22.98	22.90	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5498.30	0.004	1.434	0.032
165	22.90	22.82	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5560.09	0.004	1.434	0.032
166	22.82	22.74	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5621.88	0.004	1.434	0.032
167	22.74	22.66	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5683.67	0.004	1.434	0.032
168	22.66	22.58	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5745.45	0.004	1.434	0.032
169	22.58	22.50	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5807.24	0.004	1.434	0.032
170	22.50	22.42	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5869.03	0.004	1.434	0.032
171	22.42	22.34	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5930.82	0.004	1.434	0.032
172	22.34	22.26	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	5992.61	0.004	1.434	0.032
173	22.26	22.18	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	6054.40	0.004	1.434	0.032
174	22.18	22.10	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	6116.18	0.004	1.434	0.032
175	22.10	22.02	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	6177.97	0.004	1.434	0.032
176	22.02	21.94	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	6239.76	0.004	1.434	0.032

177	21.94	21.86	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	6301.55	0.004	1.434	0.032
178	21.86	21.78	1.05103	2.0	0.03160	0.03	1.32	25.18	2661.10	2014.47	33.26	6363.34	0.004	1.434	0.032
TOT						1.05			95799.45	72520.91					
AVG					0.0316		1.32	25.18			33.26				
CUM						2.78									

********** 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
143	24.580	8.12	0.65	0.12	0.23	0.00	0.03	0.23	0.00	5.80	8.93	6.92	0.04	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
144	24.500	8.12	0.65	0.12	0.23	0.00	0.03	0.23	0.00	5.80	8.94	6.75	0.04	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
145	24.420	8.12	0.65	0.11	0.23	0.00	0.03	0.23	0.00	5.80	8.94	6.59	0.03	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
146	24.340	8.12	0.65	0.11	0.23	0.00	0.03	0.23	0.00	5.80	8.94	6.46	0.03	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
147	24.260	8.12	0.65	0.11	0.23	0.00	0.03	0.23	0.00	5.80	8.95	6.34	0.03	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
148	24.180	8.12	0.65	0.11	0.23	0.00	0.03	0.23	0.00	5.80	8.95	6.23	0.03	0.35	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
149	24.100	8.12	0.65	0.11	0.23	0.00	0.03	0.23	0.00	5.80	8.96	6.14	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
150	24.020	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.96	6.05	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
151	23.940	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.97	5.98	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
152	23.860	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.97	5.91	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
153	23.780	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.98	5.86	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
154	23.700	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.98	5.81	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
155	23.620	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.99	5.76	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
156	23.540	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	8.99	5.72	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
157	23.460	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	9.00	5.69	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
158	23.380	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	9.00	5.66	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
159	23.300	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	9.01	5.63	0.02	0.35	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
160	23.220	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	9.01	5.61	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
161	23.140	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	9.02	5.59	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
162	23.060	8.12	0.65	0.10	0.23	0.00	0.03	0.23	0.00	5.80	9.02	5.57	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
163	22.980	8.12	0.65	0.10	0.23	0.00	0.02	0.23	0.00	5.80	9.03	5.55	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
164	22.900	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.03	5.54	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
165	22.820	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.04	5.52	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
166	22.740	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.04	5.51	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
167	22.660	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.05	5.50	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
168	22.580	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.05	5.49	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
169	22.500	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.05	5.49	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
170	22.420	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.06	5.48	0.02	0.35	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
171	22.340	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.06	5.48	0.02	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
172	22.260	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.07	5.47	0.02	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
173	22.180	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.07	5.47	0.02	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
174	22.100	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.08	5.46	0.02	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
175	22.020	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.08	5.46	0.02	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
176	21.940	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.08	5.45	0.01	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
177	21.860	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.09	5.43	0.01	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
178	21.780	8.12	0.65	0.09	0.23	0.00	0.02	0.23	0.00	5.80	9.08	5.38	0.01	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.58	0.12	0.20	0.00	0.03	0.20	0.00	4.00			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
143	24.580	25.90	0.12	196.00	7.84	1.55	5.66	4.65	5.66	4.65	2.39	0.00	0.00	0.00	0.00	3.51	0.00	0.	0.00
144	24.500	25.90	0.12	196.00	7.84	1.51	5.66	4.66	5.66	4.66	2.37	0.00	0.00	0.00	0.00	3.53	0.00	0.	0.00
145	24.420	25.90	0.12	196.00	7.84	1.47	5.66	4.67	5.66	4.67	2.34	0.00	0.00	0.00	0.00	3.54	0.00	0.	0.00
146	24.340	25.90	0.12	196.00	7.84	1.44	5.67	4.68	5.67	4.68	2.32	0.00	0.00	0.00	0.00	3.56	0.00	0.	0.00
147	24.260	25.90	0.12	196.00	7.84	1.42	5.67	4.69	5.67	4.69	2.30	0.00	0.00	0.00	0.00	3.57	0.00	0.	0.00
148	24.180	25.90	0.12	196.00	7.84	1.39	5.68	4.70	5.68	4.70	2.27	0.00	0.00	0.00	0.00	3.58	0.00	0.	0.00
149	24.100	25.90	0.12	196.00	7.84	1.37	5.68	4.71	5.68	4.71	2.25	0.00	0.00	0.00	0.00	3.60	0.00	0.	0.00
150	24.020	25.90	0.12	196.00	7.84	1.35	5.69	4.72	5.69	4.72	2.23	0.00	0.00	0.00	0.00	3.61	0.00	0.	0.00
151	23.940	25.90	0.12	196.00	7.84	1.33	5.70	4.73	5.70	4.73	2.21	0.00	0.00	0.00	0.00	3.62	0.00	0.	0.00
152	23.860	25.90	0.12	196.00	7.84	1.32	5.70	4.74	5.70	4.74	2.18	0.00	0.00	0.00	0.00	3.64	0.00	0.	0.00
153	23.780	25.90	0.12	196.00	7.84	1.30	5.71	4.75	5.71	4.75	2.16	0.00	0.00	0.00	0.00	3.65	0.00	0.	0.00
154	23.700	25.90	0.12	196.00	7.84	1.29	5.71	4.76	5.71	4.76	2.14	0.00	0.00	0.00	0.00	3.67	0.00	0.	0.00
155	23.620	25.90	0.12	196.00	7.84	1.28	5.72	4.77	5.72	4.77	2.12	0.00	0.00	0.00	0.00	3.68	0.00	0.	0.00
156	23.540	25.90	0.12	196.00	7.84	1.27	5.73	4.78	5.73	4.78	2.10	0.00	0.00	0.00	0.00	3.69	0.00	0.	0.00
157	23.460	25.90	0.12	196.00	7.84	1.26	5.73	4.79	5.73	4.79	2.08	0.00	0.00	0.00	0.00	3.71	0.00	0.	0.00
158	23.380	25.90	0.12	196.00	7.84	1.26	5.74	4.80	5.74	4.80	2.06	0.00	0.00	0.00	0.00	3.72	0.00	0.	0.00
159	23.300	25.90	0.12	196.00	7.84	1.25	5.74	4.81	5.74	4.81	2.04	0.00	0.00	0.00	0.00	3.74	0.00	0.	0.00
160	23.220	25.90	0.12	196.00	7.84	1.24	5.75	4.82	5.75	4.82	2.02	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.00
161	23.140	25.90	0.12	196.00	7.84	1.24	5.76	4.83	5.76	4.83	2.00	0.00	0.00	0.00	0.00	3.76	0.00	0.	0.00
162	23.060	25.90	0.12	196.00	7.84	1.23	5.76	4.84	5.76	4.84	1.98	0.00	0.00	0.00	0.00	3.78	0.00	0.	0.00
163	22.980	25.90	0.12	196.00	7.84	1.23	5.77	4.85	5.77	4.85	1.96	0.00	0.00	0.00	0.00	3.79	0.00	0.	0.00
164	22.900	25.90	0.12	196.00	7.84	1.23	5.77	4.86	5.77	4.86	1.94	0.00	0.00	0.00	0.00	3.81	0.00	0.	0.00
165	22.820	25.90	0.12	196.00	7.84	1.22	5.78	4.87	5.78	4.87	1.92	0.00	0.00	0.00	0.00	3.82	0.00	0.	0.00
166	22.740	25.90	0.12	196.00	7.84	1.22	5.79	4.88	5.79	4.88	1.90	0.00	0.00	0.00	0.00	3.83	0.00	0.	0.00
167	22.660	25.90	0.12	196.00	7.84	1.22	5.79	4.89	5.79	4.89	1.89	0.00	0.00	0.00	0.00	3.85	0.00	0.	0.00
168	22.580	25.90	0.12	196.00	7.84	1.21	5.80	4.90	5.80	4.90	1.87	0.00	0.00	0.00	0.00	3.86	0.00	0.	0.00
169	22.500	25.90	0.12	196.00	7.84	1.21	5.81	4.91	5.81	4.91	1.85	0.00	0.00	0.00	0.00	3.88	0.00	0.	0.00
170	22.420	25.90	0.12	196.00	7.84	1.21	5.81	4.91	5.81	4.91	1.83	0.00	0.00	0.00	0.00	3.89	0.00	0.	0.00
171	22.340	25.90	0.12	196.00	7.84	1.21	5.82	4.92	5.82	4.92	1.82	0.00	0.00	0.00	0.00	3.90	0.00	0.	0.00
172	22.260	25.90	0.12	196.00	7.84	1.21	5.82	4.93	5.82	4.93	1.80	0.00	0.00	0.00	0.00	3.92	0.00	0.	0.00
173	22.180	25.90	0.12	196.00	7.84	1.20	5.83	4.94	5.83	4.94	1.78	0.00	0.00	0.00	0.00	3.93	0.00	0.	0.00
174	22.100	25.90	0.12	196.00	7.84	1.20	5.84	4.95	5.84	4.95	1.76	0.00	0.00	0.00	0.00	3.94	0.00	0.	0.00
175	22.020	25.90	0.12	196.00	7.84	1.20	5.84	4.96	5.84	4.96	1.75	0.00	0.00	0.00	0.00	3.96	0.00	0.	0.00
176	21.940	25.90	0.12	196.00	7.84	1.20	5.85	4.97	5.85	4.97	1.73	0.00	0.00	0.00	0.00	3.97	0.00	0.	0.00
177	21.860	25.90	0.12	196.00	7.84	1.20	5.85	4.97	5.85	4.97	1.72	0.00	0.00	0.00	0.00	3.99	0.00	0.	0.00
178	21.780	25.90	0.12	196.00	7.84	1.18	5.85	4.96	5.85	4.96	1.70	0.00	0.00	0.00	0.00	4.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 6 CUTOFF: ST CHAS TO RKM 19.28 WATER QUALITY SENSITIVITY RUN ON CALIBRATION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
179	UPR RCH	1.05103	25.90	0.12	196.00	7.84	1.18	5.85	4.96	5.85	4.96	1.70	0.00	0.00	0.00	4.00	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

179	21.78	21.68	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6441.24	0.004	1.448	0.030
180	21.68	21.58	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6519.15	0.004	1.448	0.030
181	21.58	21.48	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6597.05	0.004	1.448	0.030
182	21.48	21.38	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6674.96	0.004	1.448	0.030
183	21.38	21.28	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6752.87	0.004	1.448	0.030
184	21.28	21.18	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6830.77	0.004	1.448	0.030
185	21.18	21.08	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6908.68	0.004	1.448	0.030
186	21.08	20.98	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	6986.59	0.004	1.448	0.030
187	20.98	20.88	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7064.49	0.004	1.448	0.030
188	20.88	20.78	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7142.40	0.004	1.448	0.030
189	20.78	20.68	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7220.30	0.004	1.448	0.030
190	20.68	20.58	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7298.21	0.004	1.448	0.030
191	20.58	20.48	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7376.12	0.004	1.448	0.030
192	20.48	20.38	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7454.02	0.005	1.448	0.030
193	20.38	20.28	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7531.93	0.005	1.448	0.030
194	20.28	20.18	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7609.84	0.005	1.448	0.030
195	20.18	20.08	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7687.74	0.005	1.448	0.030
196	20.08	19.98	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7765.65	0.005	1.448	0.030
197	19.98	19.88	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7843.55	0.005	1.448	0.030
198	19.88	19.78	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7921.46	0.005	1.448	0.030
199	19.78	19.68	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	7999.37	0.005	1.448	0.030
200	19.68	19.58	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	8077.27	0.005	1.448	0.030
201	19.58	19.48	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	8155.18	0.005	1.448	0.030
202	19.48	19.38	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	8233.09	0.005	1.448	0.030
203	19.38	19.28	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	8310.99	0.005	1.448	0.030
TOT						0.97			88454.63	61451.18					
AVG					0.0297		1.44	24.58			35.38				
CUM						3.75									

********** 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
179	21.680	8.12	0.59	0.09	0.23	0.00	0.02	0.23	0.00	8.55	12.11	6.94	0.01	0.35	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
180	21.580	8.12	0.59	0.09	0.23	0.00	0.02	0.23	0.00	8.55	12.09	6.74	0.01	0.35	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
181	21.480	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	12.07	6.57	0.01	0.35	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
182	21.380	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	12.05	6.43	0.01	0.35	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00
183	21.280	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	12.03	6.32	0.01	0.35	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
184	21.180	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	12.01	6.22	0.01	0.35	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
185	21.080	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.99	6.14	0.01	0.35	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
186	20.980	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.98	6.07	0.01	0.35	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
187	20.880	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.96	6.02	0.01	0.35	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
188	20.780	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.94	5.97	0.01	0.35	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
189	20.680	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.92	5.94	0.01	0.35	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
190	20.580	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.90	5.91	0.01	0.35	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
191	20.480	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.89	5.88	0.01	0.35	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
192	20.380	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.87	5.86	0.01	0.35	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
193	20.280	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.85	5.85	0.01	0.35	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
194	20.180	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.83	5.83	0.01	0.35	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
195	20.080	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.82	5.82	0.01	0.35	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
196	19.980	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.80	5.81	0.01	0.35	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
197	19.880	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.79	5.81	0.01	0.35	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
198	19.780	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.77	5.80	0.01	0.35	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00

199	19.680	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.75	5.80	0.01	0.35	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
200	19.580	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.74	5.80	0.01	0.35	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
201	19.480	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.72	5.79	0.01	0.35	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
202	19.380	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.71	5.79	0.01	0.35	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
203	19.280	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.55	11.69	5.80	0.01	0.35	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.53	0.12	0.20	0.00	0.03	0.20	0.00	5.90			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
179	21.680	25.90	0.12	196.00	7.84	1.15	5.83	4.92	5.83	4.92	1.69	0.00	0.00	0.00	0.00	4.04	0.00	0.	0.00
180	21.580	25.90	0.12	196.00	7.84	1.11	5.81	4.87	5.81	4.87	1.68	0.00	0.00	0.00	0.00	4.08	0.00	0.	0.00
181	21.480	25.90	0.12	196.00	7.84	1.09	5.79	4.83	5.79	4.83	1.67	0.00	0.00	0.00	0.00	4.12	0.00	0.	0.00
182	21.380	25.90	0.12	196.00	7.84	1.07	5.77	4.79	5.77	4.79	1.66	0.00	0.00	0.00	0.00	4.16	0.00	0.	0.00
183	21.280	25.90	0.12	196.00	7.84	1.05	5.76	4.75	5.76	4.75	1.65	0.00	0.00	0.00	0.00	4.20	0.00	0.	0.00
184	21.180	25.90	0.12	196.00	7.84	1.04	5.74	4.70	5.74	4.70	1.64	0.00	0.00	0.00	0.00	4.24	0.00	0.	0.00
185	21.080	25.90	0.12	196.00	7.84	1.02	5.72	4.66	5.72	4.66	1.63	0.00	0.00	0.00	0.00	4.28	0.00	0.	0.00
186	20.980	25.90	0.12	196.00	7.84	1.01	5.71	4.62	5.71	4.62	1.62	0.00	0.00	0.00	0.00	4.32	0.00	0.	0.00
187	20.880	25.90	0.12	196.00	7.84	1.01	5.69	4.58	5.69	4.58	1.62	0.00	0.00	0.00	0.00	4.36	0.00	0.	0.00
188	20.780	25.90	0.12	196.00	7.84	1.00	5.68	4.54	5.68	4.54	1.61	0.00	0.00	0.00	0.00	4.40	0.00	0.	0.00
189	20.680	25.90	0.12	196.00	7.84	1.00	5.66	4.50	5.66	4.50	1.60	0.00	0.00	0.00	0.00	4.44	0.00	0.	0.00
190	20.580	25.90	0.12	196.00	7.84	0.99	5.65	4.46	5.65	4.46	1.59	0.00	0.00	0.00	0.00	4.48	0.00	0.	0.00
191	20.480	25.90	0.12	196.00	7.84	0.99	5.64	4.43	5.64	4.43	1.58	0.00	0.00	0.00	0.00	4.52	0.00	0.	0.00
192	20.380	25.90	0.12	196.00	7.84	0.99	5.62	4.39	5.62	4.39	1.57	0.00	0.00	0.00	0.00	4.56	0.00	0.	0.00
193	20.280	25.90	0.12	196.00	7.84	0.99	5.61	4.35	5.61	4.35	1.56	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.00
194	20.180	25.90	0.12	196.00	7.84	0.99	5.59	4.31	5.59	4.31	1.56	0.00	0.00	0.00	0.00	4.64	0.00	0.	0.00
195	20.080	25.90	0.12	196.00	7.84	0.99	5.58	4.28	5.58	4.28	1.55	0.00	0.00	0.00	0.00	4.68	0.00	0.	0.00
196	19.980	25.90	0.12	196.00	7.84	0.99	5.57	4.24	5.57	4.24	1.54	0.00	0.00	0.00	0.00	4.72	0.00	0.	0.00
197	19.880	25.90	0.12	196.00	7.84	0.99	5.55	4.20	5.55	4.20	1.53	0.00	0.00	0.00	0.00	4.76	0.00	0.	0.00
198	19.780	25.90	0.12	196.00	7.84	0.99	5.54	4.17	5.54	4.17	1.53	0.00	0.00	0.00	0.00	4.80	0.00	0.	0.00
199	19.680	25.90	0.12	196.00	7.84	0.99	5.53	4.13	5.53	4.13	1.52	0.00	0.00	0.00	0.00	4.84	0.00	0.	0.00
200	19.580	25.90	0.12	196.00	7.84	0.99	5.51	4.10	5.51	4.10	1.51	0.00	0.00	0.00	0.00	4.88	0.00	0.	0.00
201	19.480	25.90	0.12	196.00	7.84	0.99	5.50	4.06	5.50	4.06	1.50	0.00	0.00	0.00	0.00	4.92	0.00	0.	0.00
202	19.380	25.90	0.12	196.00	7.84	0.99	5.49	4.03	5.49	4.03	1.50	0.00	0.00	0.00	0.00	4.96	0.00	0.	0.00
203	19.280	25.90	0.12	196.00	7.84	0.99	5.48	4.00	5.48	4.00	1.49	0.00	0.00	0.00	0.00	5.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 7 CUTOFF: RKm 19.28 TO RKM 16.28 WATER QUALITY SENSITIVITY RUN ON CALIBRATION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
204	UPR RCH	1.05103	25.90	0.12	196.00	7.84	0.99	5.48	4.00	5.48	4.00	1.49	0.00	0.00	0.00	5.00	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 km	DIST km	m³/s	EFF	VELO m/s	TIME days	m	m	m³	AREA m²	AREA m²	PRISM m³	VELO m/s	m²/s	VELO m/s
204	19.28	19.20	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8375.33	0.005	1.448	0.030
205	19.20	19.12	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8439.66	0.005	1.448	0.030
206	19.12	19.04	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8504.00	0.005	1.448	0.030
207	19.04	18.96	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8568.34	0.005	1.448	0.030
208	18.96	18.88	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8632.67	0.005	1.448	0.030
209	18.88	18.80	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8697.01	0.005	1.448	0.030
210	18.80	18.72	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8761.34	0.005	1.448	0.030
211	18.72	18.64	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8825.68	0.005	1.448	0.030
212	18.64	18.56	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8890.02	0.005	1.448	0.030
213	18.56	18.48	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	8954.35	0.005	1.448	0.030
214	18.48	18.40	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9018.69	0.005	1.448	0.030
215	18.40	18.32	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9083.02	0.005	1.448	0.030
216	18.32	18.24	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9147.36	0.006	1.448	0.030
217	18.24	18.16	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9211.70	0.006	1.448	0.030
218	18.16	18.08	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9276.03	0.006	1.448	0.030
219	18.08	18.00	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9340.37	0.006	1.448	0.030
220	18.00	17.92	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9404.70	0.006	1.448	0.030
221	17.92	17.84	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9469.04	0.006	1.448	0.030
222	17.84	17.76	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9533.38	0.006	1.448	0.030
223	17.76	17.68	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9597.71	0.006	1.448	0.030
224	17.68	17.60	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9662.05	0.006	1.448	0.030
225	17.60	17.52	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9726.38	0.006	1.448	0.030
226	17.52	17.44	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9790.72	0.006	1.448	0.030
227	17.44	17.36	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9855.05	0.006	1.448	0.030
228	17.36	17.28	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9919.39	0.006	1.448	0.030
229	17.28	17.20	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	9983.73	0.006	1.448	0.030
230	17.20	17.12	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	10048.06	0.006	1.448	0.030
231	17.12	17.04	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	10112.40	0.006	1.448	0.030
232	17.04	16.96	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	10176.73	0.006	1.448	0.030
233	16.96	16.88	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	10241.07	0.006	1.448	0.030
234	16.88	16.80	1.05103	2.0	0.02971	0.03	1.44	24.58	2830.55	1966.44	35.38	10305.41	0.006	1.448	0.030
TOT						0.97			87746.96	60959.57					
AVG					0.0297		1.44	24.58			35.38				
CUM						4.72									

********** 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
204	19.200	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.56	11.70	5.80	0.01	0.35	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
205	19.120	8.12	0.59	0.08	0.23	0.00	0.02	0.23	0.00	8.57	11.70	5.81	0.01	0.35	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
206	19.040	8.12	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.58	11.70	5.82	0.01	0.35	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
207	18.960	8.12	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.58	11.70	5.84	0.01	0.35	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00
208	18.880	8.11	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.59	11.70	5.85	0.01	0.35	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
209	18.800	8.11	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.60	11.71	5.86	0.01	0.35	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
210	18.720	8.11	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.60	11.71	5.88	0.01	0.35	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00
211	18.640	8.11	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.61	11.71	5.89	0.01	0.35	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00
212	18.560	8.11	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.62	11.71	5.90	0.01	0.35	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
213	18.480	8.10	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.62	11.72	5.92	0.01	0.35	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00
214	18.400	8.10	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.63	11.72	5.93	0.01	0.35	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
215	18.320	8.10	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.64	11.72	5.95	0.01	0.35	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00

216	18.240	8.10	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.65	11.72	5.96	0.01	0.35	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00
217	18.160	8.10	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.65	11.72	5.98	0.01	0.35	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00
218	18.080	8.09	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.66	11.73	6.00	0.01	0.35	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
219	18.000	8.09	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.67	11.73	6.01	0.01	0.35	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00
220	17.920	8.09	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.67	11.73	6.03	0.01	0.35	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
221	17.840	8.09	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.68	11.73	6.05	0.01	0.35	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00
222	17.760	8.09	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.69	11.74	6.06	0.01	0.35	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00
223	17.680	8.09	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.70	11.74	6.08	0.01	0.35	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00
224	17.600	8.08	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.70	11.74	6.10	0.01	0.35	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00
225	17.520	8.08	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.71	11.74	6.11	0.01	0.35	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00
226	17.440	8.08	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.72	11.75	6.13	0.01	0.35	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
227	17.360	8.08	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.72	11.75	6.15	0.01	0.35	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00
228	17.280	8.08	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.73	11.75	6.17	0.01	0.35	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00
229	17.200	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.74	11.75	6.18	0.01	0.35	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
230	17.120	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.74	11.76	6.20	0.01	0.35	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00
231	17.040	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.75	11.76	6.22	0.01	0.35	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00
232	16.960	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.76	11.76	6.24	0.01	0.35	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00
233	16.880	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.77	11.76	6.25	0.01	0.35	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
234	16.800	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.77	11.76	6.27	0.01	0.35	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.53	0.12	0.20	0.00	0.03	0.20	0.00	5.90			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
204	19.200	25.91	0.12	196.00	7.84	0.99	5.48	3.98	5.48	3.98	1.48	0.00	0.00	0.00	0.00	5.23	0.00	0.	0.00
205	19.120	25.93	0.12	196.00	7.84	0.99	5.48	3.96	5.48	3.96	1.48	0.00	0.00	0.00	0.00	5.45	0.00	0.	0.00
206	19.040	25.94	0.12	196.00	7.84	1.00	5.48	3.94	5.48	3.94	1.47	0.00	0.00	0.00	0.00	5.68	0.00	0.	0.00
207	18.960	25.95	0.12	196.00	7.84	1.00	5.48	3.92	5.48	3.92	1.47	0.00	0.00	0.00	0.00	5.90	0.00	0.	0.00
208	18.880	25.96	0.12	196.00	7.84	1.00	5.49	3.91	5.49	3.91	1.46	0.00	0.00	0.00	0.00	6.13	0.00	0.	0.00
209	18.800	25.98	0.11	196.00	7.84	1.00	5.49	3.89	5.49	3.89	1.46	0.00	0.00	0.00	0.00	6.35	0.00	0.	0.00
210	18.720	25.99	0.11	196.00	7.84	1.00	5.49	3.87	5.49	3.87	1.45	0.00	0.00	0.00	0.00	6.58	0.00	0.	0.00
211	18.640	26.00	0.11	196.00	7.84	1.01	5.49	3.85	5.49	3.85	1.45	0.00	0.00	0.00	0.00	6.81	0.00	0.	0.00
212	18.560	26.02	0.11	196.00	7.84	1.01	5.49	3.83	5.49	3.83	1.44	0.00	0.00	0.00	0.00	7.03	0.00	0.	0.00
213	18.480	26.03	0.11	196.00	7.84	1.01	5.49	3.82	5.49	3.82	1.43	0.00	0.00	0.00	0.00	7.26	0.00	0.	0.00
214	18.400	26.04	0.11	196.00	7.84	1.01	5.49	3.80	5.49	3.80	1.43	0.00	0.00	0.00	0.00	7.48	0.00	0.	0.00
215	18.320	26.05	0.11	196.00	7.84	1.02	5.49	3.78	5.49	3.78	1.42	0.00	0.00	0.00	0.00	7.71	0.00	0.	0.00
216	18.240	26.07	0.11	196.00	7.84	1.02	5.49	3.77	5.49	3.77	1.42	0.00	0.00	0.00	0.00	7.94	0.00	0.	0.00
217	18.160	26.08	0.11	196.00	7.84	1.02	5.49	3.75	5.49	3.75	1.41	0.00	0.00	0.00	0.00	8.16	0.00	0.	0.00
218	18.080	26.09	0.11	196.00	7.84	1.02	5.49	3.73	5.49	3.73	1.41	0.00	0.00	0.00	0.00	8.39	0.00	0.	0.00
219	18.000	26.11	0.10	196.00	7.84	1.03	5.49	3.72	5.49	3.72	1.41	0.00	0.00	0.00	0.00	8.61	0.00	0.	0.00
220	17.920	26.12	0.10	196.00	7.84	1.03	5.49	3.70	5.49	3.70	1.40	0.00	0.00	0.00	0.00	8.84	0.00	0.	0.00
221	17.840	26.13	0.10	196.00	7.84	1.03	5.49	3.68	5.49	3.68	1.40	0.00	0.00	0.00	0.00	9.06	0.00	0.	0.00
222	17.760	26.15	0.10	196.00	7.84	1.03	5.49	3.67	5.49	3.67	1.39	0.00	0.00	0.00	0.00	9.29	0.00	0.	0.00
223	17.680	26.16	0.10	196.00	7.84	1.04	5.49	3.65	5.49	3.65	1.39	0.00	0.00	0.00	0.00	9.52	0.00	0.	0.00
224	17.600	26.17	0.10	196.00	7.84	1.04	5.49	3.63	5.49	3.63	1.38	0.00	0.00	0.00	0.00	9.74	0.00	0.	0.00
225	17.520	26.18	0.10	196.00	7.84	1.04	5.49	3.62	5.49	3.62	1.38	0.00	0.00	0.00	0.00	9.97	0.00	0.	0.00
226	17.440	26.20	0.10	196.00	7.84	1.04	5.49	3.60	5.49	3.60	1.37	0.00	0.00	0.00	0.00	10.19	0.00	0.	0.00
227	17.360	26.21	0.10	196.00	7.84	1.05	5.49	3.59	5.49	3.59	1.37	0.00	0.00	0.00	0.00	10.42	0.00	0.	0.00
228	17.280	26.22	0.10	196.00	7.84	1.05	5.49	3.57	5.49	3.57	1.36	0.00	0.00	0.00	0.00	10.65	0.00	0.	0.00
229	17.200	26.24	0.09	196.00	7.84	1.05	5.49	3.55	5.49	3.55	1.36	0.00	0.00	0.00	0.00	10.87	0.00	0.	0.00
230	17.120	26.25	0.09	196.00	7.84	1.05	5.48	3.54	5.48	3.54	1.35	0.00	0.00	0.00	0.00	11.10	0.00	0.	0.00
231	17.040	26.26	0.09	196.00	7.84	1.06	5.48	3.52	5.48	3.52	1.35	0.00	0.00	0.00	0.00	11.32	0.00	0.	0.00

232	16.960	26.27	0.09	196.00	7.84	1.06	5.48	3.51	5.48	3.51	1.35	0.00	0.00	0.00	0.00	11.55	0.00	0.	0.00
233	16.880	26.29	0.09	196.00	7.84	1.06	5.48	3.49	5.48	3.49	1.34	0.00	0.00	0.00	0.00	11.77	0.00	0.	0.00
234	16.800	26.30	0.09	196.00	7.84	1.07	5.47	3.48	5.47	3.48	1.35	0.00	0.00	0.00	0.00	12.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 8 CUTOFF: RKM 16.28 TO BAYOU FOLSE WATER QUALITY SENSITIVITY RUN ON CALIBRATION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
235	UPR RCH	1.05103	26.30	0.09	196.00	7.84	1.07	5.47	3.48	5.47	3.48	1.35	0.00	0.00	0.00	12.00	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
235	16.80	16.70	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10388.65	0.006	1.448	0.030
236	16.70	16.60	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10471.90	0.006	1.448	0.030
237	16.60	16.50	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10555.15	0.006	1.448	0.030
238	16.50	16.40	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10638.39	0.006	1.448	0.030
239	16.40	16.30	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10721.64	0.006	1.448	0.030
240	16.30	16.20	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10804.89	0.007	1.448	0.030
241	16.20	16.10	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10888.14	0.007	1.448	0.030
242	16.10	16.00	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	10971.38	0.007	1.448	0.030
243	16.00	15.90	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11054.63	0.007	1.448	0.030
244	15.90	15.80	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11137.88	0.007	1.448	0.030
245	15.80	15.70	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11221.12	0.007	1.448	0.030
246	15.70	15.60	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11304.37	0.007	1.448	0.030
247	15.60	15.50	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11387.62	0.007	1.448	0.030
248	15.50	15.40	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11470.87	0.007	1.448	0.030
249	15.40	15.30	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11554.11	0.007	1.448	0.030
250	15.30	15.20	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11637.36	0.007	1.448	0.030
251	15.20	15.10	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11720.61	0.007	1.448	0.030
252	15.10	15.00	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11803.85	0.007	1.448	0.030
253	15.00	14.90	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11887.10	0.007	1.448	0.030
254	14.90	14.80	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	11970.35	0.007	1.448	0.030
255	14.80	14.70	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	12053.59	0.007	1.448	0.030
256	14.70	14.60	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	12136.84	0.007	1.448	0.030
257	14.60	14.50	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	12220.09	0.007	1.448	0.030
258	14.50	14.40	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	12303.34	0.007	1.448	0.030
259	14.40	14.30	1.05103	2.0	0.02971	0.04	1.44	24.58	3538.18	2458.05	35.38	12386.58	0.007	1.448	0.030
TOT						0.97			88454.63	61451.18					
AVG					0.0297		1.44	24.58			35.38				
CUM						5.69									

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	ABOD#1 DECAY	BOD#2 DECAY	BOD#2 SETT	ABOD#2 DECAY	BKGD SOD	FULL SOD	CORR SOD	ORGN DECAY	ORGN SETT	NH3 DECAY	NH3 SRCE	DENIT RATE	PO4 SRCE	ALG PROD	MAC PROD	COLI DECAY	NCM DECAY	NCM 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
235	16.700	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.77	11.75	6.28	0.01	0.35	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
236	16.600	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.77	11.73	6.30	0.01	0.35	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
237	16.500	8.07	0.60	0.08	0.23	0.00	0.02	0.23	0.00	8.77	11.72	6.32	0.01	0.35	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
238	16.400	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.70	6.33	0.01	0.35	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
239	16.300	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.68	6.35	0.01	0.35	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
240	16.200	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.67	6.37	0.01	0.35	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
241	16.100	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.65	6.39	0.01	0.35	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
242	16.000	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.64	6.41	0.01	0.35	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
243	15.900	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.62	6.43	0.01	0.35	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
244	15.800	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.61	6.45	0.01	0.35	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
245	15.700	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.59	6.47	0.01	0.35	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
246	15.600	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.58	6.50	0.01	0.35	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
247	15.500	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.57	6.52	0.01	0.35	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
248	15.400	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.55	6.54	0.01	0.35	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
249	15.300	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.54	6.56	0.01	0.35	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
250	15.200	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.52	6.58	0.01	0.35	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
251	15.100	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.51	6.60	0.01	0.35	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
252	15.000	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.49	6.63	0.01	0.35	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
253	14.900	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.48	6.65	0.01	0.35	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00
254	14.800	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.47	6.67	0.01	0.35	0.00	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
255	14.700	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.45	6.69	0.01	0.35	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
256	14.600	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.44	6.72	0.01	0.35	0.00	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
257	14.500	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.43	6.74	0.01	0.35	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
258	14.400	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.42	6.76	0.01	0.35	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
259	14.300	8.07	0.60	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.42	6.78	0.01	0.35	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.53	0.12	0.20	0.00	0.03	0.20	0.00	5.90			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
235	16.700	26.30	0.09	196.00	7.84	1.07	5.44	3.46	5.44	3.46	1.36	0.00	0.00	0.00	0.00	12.29	0.00	0.	0.00
236	16.600	26.30	0.09	196.00	7.84	1.07	5.42	3.44	5.42	3.44	1.37	0.00	0.00	0.00	0.00	12.58	0.00	0.	0.00
237	16.500	26.30	0.09	196.00	7.84	1.08	5.39	3.41	5.39	3.41	1.38	0.00	0.00	0.00	0.00	12.86	0.00	0.	0.00
238	16.400	26.30	0.09	196.00	7.84	1.08	5.36	3.39	5.36	3.39	1.39	0.00	0.00	0.00	0.00	13.15	0.00	0.	0.00
239	16.300	26.30	0.09	196.00	7.84	1.09	5.34	3.37	5.34	3.37	1.40	0.00	0.00	0.00	0.00	13.44	0.00	0.	0.00
240	16.200	26.30	0.09	196.00	7.84	1.09	5.31	3.35	5.31	3.35	1.41	0.00	0.00	0.00	0.00	13.73	0.00	0.	0.00
241	16.100	26.30	0.09	196.00	7.84	1.10	5.28	3.33	5.28	3.33	1.42	0.00	0.00	0.00	0.00	14.02	0.00	0.	0.00
242	16.000	26.30	0.09	196.00	7.84	1.10	5.26	3.31	5.26	3.31	1.44	0.00	0.00	0.00	0.00	14.30	0.00	0.	0.00
243	15.900	26.30	0.09	196.00	7.84	1.11	5.23	3.30	5.23	3.30	1.45	0.00	0.00	0.00	0.00	14.59	0.00	0.	0.00
244	15.800	26.30	0.09	196.00	7.84	1.11	5.21	3.28	5.21	3.28	1.46	0.00	0.00	0.00	0.00	14.88	0.00	0.	0.00
245	15.700	26.30	0.09	196.00	7.84	1.12	5.18	3.26	5.18	3.26	1.47	0.00	0.00	0.00	0.00	15.17	0.00	0.	0.00
246	15.600	26.30	0.09	196.00	7.84	1.12	5.16	3.24	5.16	3.24	1.48	0.00	0.00	0.00	0.00	15.46	0.00	0.	0.00
247	15.500	26.30	0.09	196.00	7.84	1.13	5.13	3.22	5.13	3.22	1.49	0.00	0.00	0.00	0.00	15.74	0.00	0.	0.00
248	15.400	26.30	0.09	196.00	7.84	1.13	5.11	3.20	5.11	3.20	1.50	0.00	0.00	0.00	0.00	16.03	0.00	0.	0.00
249	15.300	26.30	0.09	196.00	7.84	1.14	5.09	3.18	5.09	3.18	1.51	0.00	0.00	0.00	0.00	16.32	0.00	0.	0.00
250	15.200	26.30	0.09	196.00	7.84	1.14	5.06	3.16	5.06	3.16	1.51	0.00	0.00	0.00	0.00	16.61	0.00	0.	0.00
251	15.100	26.30	0.09	196.00	7.84	1.15	5.04	3.15	5.04	3.15	1.52	0.00	0.00	0.00	0.00	16.90	0.00	0.	0.00
252	15.000	26.30	0.09	196.00	7.84	1.15	5.01	3.13	5.01	3.13	1.53	0.00	0.00	0.00	0.00	17.18	0.00	0.	0.00
253	14.900	26.30	0.09	196.00	7.84	1.16	4.99	3.11	4.99	3.11	1.54	0.00	0.00	0.00	0.00	17.47	0.00	0.	0.00
254	14.800	26.30	0.09	196.00	7.84	1.16	4.97	3.09	4.97	3.09	1.55	0.00	0.00	0.00	0.00	17.76	0.00	0.	0.00

255	14.700	26.30	0.09	196.00	7.84	1.17	4.95	3.08	4.95	3.08	1.56	0.00	0.00	0.00	0.00	18.05	0.00	0.	0.00
256	14.600	26.30	0.09	196.00	7.84	1.17	4.92	3.06	4.92	3.06	1.57	0.00	0.00	0.00	0.00	18.34	0.00	0.	0.00
257	14.500	26.30	0.09	196.00	7.84	1.18	4.91	3.04	4.91	3.04	1.58	0.00	0.00	0.00	0.00	18.62	0.00	0.	0.00
258	14.400	26.30	0.09	196.00	7.84	1.18	4.89	3.02	4.89	3.02	1.59	0.00	0.00	0.00	0.00	18.91	0.00	0.	0.00
259	14.300	26.30	0.09	196.00	7.84	1.19	4.91	3.00	4.91	3.00	1.60	0.00	0.00	0.00	0.00	19.20	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 9 FOLSE: THERIOT CANAL TO RKM 12.3 WATER QUALITY SENSITIVITY RUN ON CALIBRATION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
260	UPR RCH	1.05103	26.30	0.09	196.00	7.84	1.19	4.91	3.00	4.91	3.00	1.60	0.00	0.00	0.00	19.20	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
260	14.30	14.20	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	12478.03	0.007	1.342	0.026
261	14.20	14.10	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	12569.48	0.007	1.342	0.026
262	14.10	14.00	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	12660.92	0.007	1.342	0.026
263	14.00	13.90	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	12752.37	0.007	1.342	0.026
264	13.90	13.80	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	12843.81	0.007	1.342	0.026
265	13.80	13.70	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	12935.26	0.007	1.342	0.026
266	13.70	13.60	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13026.71	0.007	1.342	0.026
267	13.60	13.50	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13118.15	0.007	1.342	0.026
268	13.50	13.40	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13209.60	0.007	1.342	0.026
269	13.40	13.30	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13301.05	0.007	1.342	0.026
270	13.30	13.20	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13392.49	0.007	1.342	0.026
271	13.20	13.10	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13483.94	0.007	1.342	0.026
272	13.10	13.00	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13575.38	0.007	1.342	0.026
273	13.00	12.90	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13666.83	0.007	1.342	0.026
274	12.90	12.80	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13758.28	0.007	1.342	0.026
275	12.80	12.70	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13849.72	0.007	1.342	0.026
276	12.70	12.60	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	13941.17	0.007	1.342	0.026
277	12.60	12.50	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14032.62	0.007	1.342	0.026
278	12.50	12.40	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14124.06	0.007	1.342	0.026
279	12.40	12.30	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14215.51	0.007	1.342	0.026
TOT						0.89			81057.05	52420.85					
AVG					0.0259		1.55	26.21			40.53				
CUM						6.58									

********** 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
260	14.200	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.64	6.90	0.01	0.35	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00

261	14.100	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.66	6.90	0.01	0.35	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
262	14.000	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.68	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
263	13.900	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.70	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
264	13.800	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.72	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
265	13.700	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.74	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
266	13.600	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.76	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
267	13.500	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.78	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
268	13.400	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.80	6.91	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
269	13.300	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.82	6.90	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
270	13.200	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.84	6.90	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
271	13.100	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.86	6.90	0.01	0.35	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
272	13.000	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.87	6.89	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
273	12.900	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.89	6.89	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
274	12.800	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.91	6.89	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
275	12.700	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.93	6.88	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
276	12.600	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.95	6.88	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
277	12.500	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.96	6.88	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
278	12.400	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	11.99	6.88	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
279	12.300	8.07	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.77	12.01	6.89	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.48	0.12	0.20	0.00	0.03	0.20	0.00	5.90			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
260	14.200	26.30	0.09	196.00	7.84	1.19	4.99	2.98	4.99	2.98	1.62	0.00	0.00	0.00	0.00	19.22	0.00	0.	0.00
261	14.100	26.30	0.09	196.00	7.84	1.18	5.07	2.96	5.07	2.96	1.64	0.00	0.00	0.00	0.00	19.23	0.00	0.	0.00
262	14.000	26.30	0.09	196.00	7.84	1.18	5.15	2.94	5.15	2.94	1.66	0.00	0.00	0.00	0.00	19.25	0.00	0.	0.00
263	13.900	26.30	0.09	196.00	7.84	1.18	5.23	2.92	5.23	2.92	1.68	0.00	0.00	0.00	0.00	19.26	0.00	0.	0.00
264	13.800	26.30	0.09	196.00	7.84	1.18	5.30	2.91	5.30	2.91	1.70	0.00	0.00	0.00	0.00	19.27	0.00	0.	0.00
265	13.700	26.30	0.09	196.00	7.84	1.18	5.38	2.89	5.38	2.89	1.72	0.00	0.00	0.00	0.00	19.29	0.00	0.	0.00
266	13.600	26.30	0.09	196.00	7.84	1.17	5.45	2.87	5.45	2.87	1.74	0.00	0.00	0.00	0.00	19.31	0.00	0.	0.00
267	13.500	26.30	0.09	196.00	7.84	1.17	5.53	2.85	5.53	2.85	1.75	0.00	0.00	0.00	0.00	19.32	0.00	0.	0.00
268	13.400	26.30	0.09	196.00	7.84	1.17	5.60	2.83	5.60	2.83	1.77	0.00	0.00	0.00	0.00	19.34	0.00	0.	0.00
269	13.300	26.30	0.09	196.00	7.84	1.17	5.67	2.81	5.67	2.81	1.79	0.00	0.00	0.00	0.00	19.35	0.00	0.	0.00
270	13.200	26.30	0.09	196.00	7.84	1.17	5.74	2.79	5.74	2.79	1.81	0.00	0.00	0.00	0.00	19.36	0.00	0.	0.00
271	13.100	26.30	0.09	196.00	7.84	1.16	5.81	2.78	5.81	2.78	1.82	0.00	0.00	0.00	0.00	19.38	0.00	0.	0.00
272	13.000	26.30	0.09	196.00	7.84	1.16	5.88	2.76	5.88	2.76	1.84	0.00	0.00	0.00	0.00	19.40	0.00	0.	0.00
273	12.900	26.30	0.09	196.00	7.84	1.16	5.95	2.74	5.95	2.74	1.86	0.00	0.00	0.00	0.00	19.41	0.00	0.	0.00
274	12.800	26.30	0.09	196.00	7.84	1.16	6.01	2.72	6.01	2.72	1.87	0.00	0.00	0.00	0.00	19.42	0.00	0.	0.00
275	12.700	26.30	0.09	196.00	7.84	1.15	6.08	2.71	6.08	2.71	1.89	0.00	0.00	0.00	0.00	19.44	0.00	0.	0.00
276	12.600	26.30	0.09	196.00	7.84	1.15	6.15	2.69	6.15	2.69	1.91	0.00	0.00	0.00	0.00	19.45	0.00	0.	0.00
277	12.500	26.30	0.09	196.00	7.84	1.15	6.21	2.68	6.21	2.68	1.92	0.00	0.00	0.00	0.00	19.47	0.00	0.	0.00
278	12.400	26.30	0.09	196.00	7.84	1.15	6.27	2.67	6.27	2.67	1.94	0.00	0.00	0.00	0.00	19.49	0.00	0.	0.00
279	12.300	26.30	0.09	196.00	7.84	1.15	6.34	2.69	6.34	2.69	1.95	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 10 FOLSE: RKM 12.30 TO RKM 10.20 WATER QUALITY SENSITIVITY RUN ON CALIBRATION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
280	UPR RCH	1.05103	26.30	0.09	196.00	7.84	1.15	6.34	2.69	6.34	2.69	1.95	0.00	0.00	0.00	19.50	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
280	12.30	12.20	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14309.63	0.008	1.342	0.026
281	12.20	12.10	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14403.76	0.008	1.342	0.026
282	12.10	12.00	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14497.89	0.008	1.342	0.026
283	12.00	11.90	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14592.01	0.008	1.342	0.026
284	11.90	11.80	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14686.14	0.008	1.342	0.026
285	11.80	11.70	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14780.26	0.008	1.342	0.026
286	11.70	11.60	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14874.39	0.008	1.342	0.026
287	11.60	11.50	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	14968.52	0.008	1.342	0.026
288	11.50	11.40	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15062.64	0.008	1.342	0.026
289	11.40	11.30	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15156.77	0.008	1.342	0.026
290	11.30	11.20	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15250.89	0.008	1.342	0.026
291	11.20	11.10	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15345.02	0.008	1.342	0.026
292	11.10	11.00	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15439.15	0.008	1.342	0.026
293	11.00	10.90	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15533.27	0.008	1.342	0.026
294	10.90	10.80	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15627.40	0.008	1.342	0.026
295	10.80	10.70	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15721.52	0.008	1.342	0.026
296	10.70	10.60	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15815.65	0.008	1.342	0.026
297	10.60	10.50	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	15909.78	0.008	1.342	0.026
298	10.50	10.40	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	16003.90	0.008	1.342	0.026
299	10.40	10.30	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	16098.03	0.008	1.342	0.026
300	10.30	10.20	1.05103	2.0	0.02593	0.04	1.55	26.21	4052.85	2621.04	40.53	16192.15	0.009	1.342	0.026
TOT						0.94			85109.90	55041.89					
AVG					0.0259		1.55	26.21			40.53				
CUM						7.52									

********** 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
280	12.200	8.06	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.19	11.48	6.60	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
281	12.100	8.06	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.19	11.54	6.65	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
282	12.000	8.06	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.20	11.60	6.69	0.01	0.35	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
283	11.900	8.06	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.21	11.65	6.72	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
284	11.800	8.05	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.22	11.71	6.74	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
285	11.700	8.05	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.22	11.77	6.77	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
286	11.600	8.05	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.23	11.82	6.78	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
287	11.500	8.05	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.24	11.88	6.80	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
288	11.400	8.05	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.24	11.93	6.81	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
289	11.300	8.04	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.25	11.99	6.82	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
290	11.200	8.04	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.26	12.04	6.82	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
291	11.100	8.04	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.27	12.10	6.83	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
292	11.000	8.04	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.27	12.15	6.83	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00

293	10.900	8.04	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.28	12.20	6.84	0.01	0.35	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
294	10.800	8.03	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.29	12.25	6.84	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
295	10.700	8.03	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.30	12.31	6.84	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
296	10.600	8.03	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.30	12.36	6.84	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
297	10.500	8.03	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.31	12.41	6.84	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
298	10.400	8.03	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.32	12.46	6.85	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
299	10.300	8.02	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.33	12.51	6.89	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
300	10.200	8.02	0.54	0.09	0.23	0.00	0.02	0.23	0.00	8.33	12.56	7.04	0.01	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.48	0.12	0.20	0.00	0.03	0.20	0.00	5.50			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
280	12.200	26.31	0.09	196.00	7.84	1.15	6.40	2.77	6.40	2.77	1.96	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
281	12.100	26.33	0.09	196.00	7.84	1.15	6.47	2.84	6.47	2.84	1.96	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
282	12.000	26.34	0.09	196.00	7.84	1.15	6.53	2.92	6.53	2.92	1.97	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
283	11.900	26.36	0.09	196.00	7.84	1.15	6.59	2.99	6.59	2.99	1.98	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
284	11.800	26.37	0.09	196.00	7.84	1.15	6.65	3.07	6.65	3.07	1.99	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
285	11.700	26.39	0.09	196.00	7.84	1.15	6.71	3.14	6.71	3.14	1.99	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
286	11.600	26.40	0.09	196.00	7.84	1.15	6.77	3.22	6.77	3.22	2.00	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
287	11.500	26.41	0.09	196.00	7.84	1.14	6.83	3.29	6.83	3.29	2.01	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
288	11.400	26.43	0.09	196.00	7.84	1.14	6.89	3.36	6.89	3.36	2.01	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
289	11.300	26.44	0.09	196.00	7.84	1.14	6.94	3.43	6.94	3.43	2.02	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
290	11.200	26.46	0.09	196.00	7.84	1.13	7.00	3.50	7.00	3.50	2.03	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
291	11.100	26.47	0.09	196.00	7.84	1.13	7.05	3.57	7.05	3.57	2.03	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
292	11.000	26.49	0.09	196.00	7.84	1.12	7.11	3.64	7.11	3.64	2.04	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
293	10.900	26.50	0.09	196.00	7.84	1.12	7.16	3.70	7.16	3.70	2.05	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
294	10.800	26.51	0.09	196.00	7.84	1.12	7.22	3.77	7.22	3.77	2.05	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
295	10.700	26.53	0.09	196.00	7.84	1.11	7.27	3.84	7.27	3.84	2.06	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
296	10.600	26.54	0.09	196.00	7.84	1.11	7.32	3.90	7.32	3.90	2.06	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
297	10.500	26.56	0.09	196.00	7.84	1.10	7.37	3.96	7.37	3.96	2.07	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
298	10.400	26.57	0.09	196.00	7.84	1.10	7.42	4.03	7.42	4.03	2.08	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
299	10.300	26.59	0.09	196.00	7.84	1.10	7.47	4.09	7.47	4.09	2.08	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00
300	10.200	26.60	0.09	196.00	7.84	1.12	7.53	4.15	7.53	4.15	2.10	0.00	0.00	0.00	0.00	19.50	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 11 FOLSE: RKM 10.20 TO RKM 7.40 WATER QUALITY SENSITIVITY RUN ON CALIBRATION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
301	UPR RCH	1.05103	26.60	0.09	196.00	7.84	1.12	7.53	4.15	7.53	4.15	2.10	0.00	0.00	0.00	19.50	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
301	10.20	10.00	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	16498.58	0.005	0.851	0.016
302	10.00	9.80	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	16805.00	0.005	0.851	0.016
303	9.80	9.60	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	17111.42	0.006	0.851	0.016
304	9.60	9.40	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	17417.84	0.006	0.851	0.016
305	9.40	9.20	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	17724.26	0.006	0.851	0.016
306	9.20	9.00	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	18030.69	0.006	0.851	0.016
307	9.00	8.80	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	18337.11	0.006	0.851	0.016
308	8.80	8.60	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	18643.53	0.006	0.851	0.016
309	8.60	8.40	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	18949.95	0.006	0.851	0.016
310	8.40	8.20	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	19256.37	0.006	0.851	0.016
311	8.20	8.00	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	19562.79	0.006	0.851	0.016
312	8.00	7.80	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	19869.22	0.006	0.851	0.016
313	7.80	7.60	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	20175.64	0.007	0.851	0.016
314	7.60	7.40	1.05103	2.0	0.01604	0.14	1.59	41.15	13102.75	8230.00	65.51	20482.06	0.007	0.851	0.016
TOT						2.02			183438.48	115219.99					
AVG					0.0160		1.59	41.15			65.51				
CUM						9.54									

********** 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
301	10.000	8.02	0.50	0.10	0.23	0.00	0.03	0.23	0.00	3.03	7.44	4.59	0.02	0.35	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
302	9.800	8.02	0.50	0.10	0.23	0.00	0.03	0.23	0.00	3.03	7.50	4.92	0.02	0.35	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
303	9.600	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.56	5.15	0.03	0.35	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
304	9.400	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.61	5.30	0.03	0.35	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
305	9.200	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.67	5.40	0.03	0.35	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
306	9.000	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.71	5.47	0.03	0.35	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
307	8.800	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.76	5.52	0.03	0.35	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
308	8.600	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.81	5.55	0.03	0.35	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
309	8.400	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.85	5.57	0.03	0.35	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
310	8.200	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.89	5.59	0.03	0.35	0.00	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
311	8.000	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.93	5.60	0.03	0.35	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
312	7.800	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	7.97	5.61	0.03	0.35	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
313	7.600	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	8.00	5.61	0.03	0.35	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
314	7.400	8.02	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.03	8.03	5.61	0.03	0.35	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.44	0.12	0.20	0.00	0.03	0.20	0.00	2.00			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
301	10.000	26.60	0.09	196.00	7.84	1.23	7.62	4.22	7.62	4.22	2.13	0.00	0.00	0.00	0.00	19.54	0.00	0.	0.00
302	9.800	26.60	0.09	196.00	7.84	1.31	7.72	4.29	7.72	4.29	2.17	0.00	0.00	0.00	0.00	19.57	0.00	0.	0.00
303	9.600	26.60	0.09	196.00	7.84	1.36	7.80	4.36	7.80	4.36	2.20	0.00	0.00	0.00	0.00	19.61	0.00	0.	0.00
304	9.400	26.60	0.09	196.00	7.84	1.39	7.88	4.43	7.88	4.43	2.23	0.00	0.00	0.00	0.00	19.64	0.00	0.	0.00
305	9.200	26.60	0.09	196.00	7.84	1.41	7.95	4.49	7.95	4.49	2.26	0.00	0.00	0.00	0.00	19.68	0.00	0.	0.00

306	9.000	26.60	0.09	196.00	7.84	1.42	8.02	4.56	8.02	4.56	2.29	0.00	0.00	0.00	0.00	19.71	0.00	0.	0.00
307	8.800	26.60	0.09	196.00	7.84	1.42	8.09	4.62	8.09	4.62	2.32	0.00	0.00	0.00	0.00	19.75	0.00	0.	0.00
308	8.600	26.60	0.09	196.00	7.84	1.42	8.15	4.67	8.15	4.67	2.34	0.00	0.00	0.00	0.00	19.79	0.00	0.	0.00
309	8.400	26.60	0.09	196.00	7.84	1.42	8.21	4.73	8.21	4.73	2.36	0.00	0.00	0.00	0.00	19.82	0.00	0.	0.00
310	8.200	26.60	0.09	196.00	7.84	1.42	8.27	4.78	8.27	4.78	2.38	0.00	0.00	0.00	0.00	19.86	0.00	0.	0.00
311	8.000	26.60	0.09	196.00	7.84	1.41	8.32	4.83	8.32	4.83	2.41	0.00	0.00	0.00	0.00	19.89	0.00	0.	0.00
312	7.800	26.60	0.09	196.00	7.84	1.41	8.37	4.88	8.37	4.88	2.43	0.00	0.00	0.00	0.00	19.93	0.00	0.	0.00
313	7.600	26.60	0.09	196.00	7.84	1.40	8.42	4.93	8.42	4.93	2.45	0.00	0.00	0.00	0.00	19.96	0.00	0.	0.00
314	7.400	26.60	0.09	196.00	7.84	1.40	8.46	4.96	8.46	4.96	2.46	0.00	0.00	0.00	0.00	20.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 12 FOLSE: RKM 7.40 TO RACELAND C. WATER QUALITY SENSITIVITY RUN ON CALIBRATION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
315	UPR RCH	1.05103	26.60	0.09	196.00	7.84	1.40	8.46	4.96	8.46	4.96	2.46	0.00	0.00	0.00	20.00	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
315	7.40	7.25	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	20721.34	0.007	0.851	0.016
316	7.25	7.10	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	20960.63	0.007	0.851	0.016
317	7.10	6.95	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	21199.91	0.007	0.851	0.016
318	6.95	6.80	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	21439.19	0.007	0.851	0.016
319	6.80	6.65	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	21678.48	0.007	0.851	0.016
320	6.65	6.50	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	21917.76	0.007	0.851	0.016
321	6.50	6.35	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	22157.04	0.007	0.851	0.016
322	6.35	6.20	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	22396.33	0.007	0.851	0.016
323	6.20	6.05	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	22635.61	0.007	0.851	0.016
324	6.05	5.90	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	22874.89	0.007	0.851	0.016
325	5.90	5.75	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	23114.18	0.008	0.851	0.016
326	5.75	5.60	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	23353.46	0.008	0.851	0.016
327	5.60	5.45	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	23592.74	0.008	0.851	0.016
328	5.45	5.30	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	23832.03	0.008	0.851	0.016
329	5.30	5.15	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	24071.31	0.008	0.851	0.016
330	5.15	5.00	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	24310.59	0.008	0.851	0.016
331	5.00	4.85	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	24549.88	0.008	0.851	0.016
332	4.85	4.70	1.05103	2.0	0.01604	0.11	1.59	41.15	9827.06	6172.50	65.51	24789.16	0.008	0.851	0.016
TOT						1.95			176887.11	111104.99					
AVG					0.0160		1.59	41.15			65.51				
CUM						11.49									

********** 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

315	7.250	8.01	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.04	8.04	5.61	0.03	0.35	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
316	7.100	8.00	0.50	0.11	0.23	0.00	0.03	0.23	0.00	3.06	8.05	5.61	0.03	0.35	0.00	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
317	6.950	7.99	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.07	8.06	5.62	0.03	0.35	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
318	6.800	7.98	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.09	8.07	5.62	0.03	0.35	0.00	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
319	6.650	7.97	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.10	8.09	5.63	0.03	0.35	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
320	6.500	7.96	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.11	8.10	5.63	0.03	0.35	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
321	6.350	7.95	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.13	8.11	5.64	0.03	0.36	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
322	6.200	7.94	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.14	8.12	5.65	0.03	0.36	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
323	6.050	7.93	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.16	8.13	5.65	0.03	0.36	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
324	5.900	7.92	0.50	0.11	0.24	0.00	0.03	0.24	0.00	3.17	8.15	5.66	0.03	0.36	0.00	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00
325	5.750	7.91	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.19	8.16	5.67	0.03	0.36	0.00	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
326	5.600	7.90	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.20	8.17	5.68	0.03	0.36	0.00	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
327	5.450	7.89	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.22	8.18	5.69	0.03	0.36	0.00	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
328	5.300	7.88	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.23	8.19	5.70	0.03	0.36	0.00	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
329	5.150	7.87	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.24	8.21	5.70	0.03	0.36	0.00	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
330	5.000	7.86	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.26	8.22	5.71	0.03	0.36	0.00	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
331	4.850	7.85	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.27	8.23	5.70	0.03	0.36	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00
332	4.700	7.84	0.51	0.12	0.24	0.00	0.03	0.24	0.00	3.29	8.24	5.64	0.03	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.44	0.12	0.20	0.00	0.03	0.20	0.00	2.00			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
315	7.250	26.67	0.09	196.00	7.84	1.40	8.45	4.94	8.45	4.94	2.48	0.00	0.00	0.00	0.00	20.06	0.00	0.	0.00
316	7.100	26.74	0.09	196.00	7.84	1.39	8.44	4.92	8.44	4.92	2.50	0.00	0.00	0.00	0.00	20.11	0.00	0.	0.00
317	6.950	26.82	0.09	196.00	7.84	1.39	8.43	4.91	8.43	4.91	2.51	0.00	0.00	0.00	0.00	20.17	0.00	0.	0.00
318	6.800	26.89	0.09	196.00	7.84	1.39	8.42	4.89	8.42	4.89	2.53	0.00	0.00	0.00	0.00	20.22	0.00	0.	0.00
319	6.650	26.96	0.09	196.00	7.84	1.39	8.40	4.87	8.40	4.87	2.54	0.00	0.00	0.00	0.00	20.28	0.00	0.	0.00
320	6.500	27.03	0.09	196.00	7.84	1.39	8.39	4.85	8.39	4.85	2.56	0.00	0.00	0.00	0.00	20.33	0.00	0.	0.00
321	6.350	27.11	0.09	196.00	7.84	1.39	8.38	4.84	8.38	4.84	2.57	0.00	0.00	0.00	0.00	20.39	0.00	0.	0.00
322	6.200	27.18	0.09	196.00	7.84	1.39	8.37	4.82	8.37	4.82	2.58	0.00	0.00	0.00	0.00	20.44	0.00	0.	0.00
323	6.050	27.25	0.10	196.00	7.84	1.39	8.36	4.80	8.36	4.80	2.59	0.00	0.00	0.00	0.00	20.50	0.00	0.	0.00
324	5.900	27.32	0.10	196.00	7.84	1.39	8.34	4.79	8.34	4.79	2.60	0.00	0.00	0.00	0.00	20.56	0.00	0.	0.00
325	5.750	27.39	0.10	196.00	7.84	1.39	8.33	4.77	8.33	4.77	2.61	0.00	0.00	0.00	0.00	20.61	0.00	0.	0.00
326	5.600	27.47	0.10	196.00	7.84	1.39	8.32	4.75	8.32	4.75	2.62	0.00	0.00	0.00	0.00	20.67	0.00	0.	0.00
327	5.450	27.54	0.10	196.00	7.84	1.39	8.30	4.74	8.30	4.74	2.63	0.00	0.00	0.00	0.00	20.72	0.00	0.	0.00
328	5.300	27.61	0.10	196.00	7.84	1.39	8.29	4.72	8.29	4.72	2.64	0.00	0.00	0.00	0.00	20.78	0.00	0.	0.00
329	5.150	27.68	0.10	196.00	7.84	1.39	8.28	4.71	8.28	4.71	2.64	0.00	0.00	0.00	0.00	20.83	0.00	0.	0.00
330	5.000	27.76	0.10	196.00	7.84	1.39	8.26	4.69	8.26	4.69	2.65	0.00	0.00	0.00	0.00	20.89	0.00	0.	0.00
331	4.850	27.83	0.10	196.00	7.84	1.39	8.25	4.68	8.25	4.68	2.66	0.00	0.00	0.00	0.00	20.94	0.00	0.	0.00
332	4.700	27.90	0.10	196.00	7.84	1.37	8.23	4.66	8.23	4.66	2.65	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 13 FOLSE: RACELAND C. TO RKM 2.32 WATER QUALITY SENSITIVITY RUN ON CALIBRATION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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

333	UPR RCH	1.05103	27.90	0.10	196.00	7.84	1.37	8.23	4.66	8.23	4.66	2.65	0.00	0.00	0.00	21.00	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
333	4.70	4.58	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	24970.62	0.013	0.991	0.026
334	4.58	4.46	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	25152.09	0.013	0.991	0.026
335	4.46	4.34	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	25333.56	0.014	0.991	0.026
336	4.34	4.22	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	25515.03	0.014	0.991	0.026
337	4.22	4.11	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	25696.49	0.014	0.991	0.026
338	4.11	3.99	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	25877.96	0.014	0.991	0.026
339	3.99	3.87	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	26059.43	0.014	0.991	0.026
340	3.87	3.75	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	26240.89	0.014	0.991	0.026
341	3.75	3.63	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	26422.36	0.014	0.991	0.026
342	3.63	3.51	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	26603.83	0.014	0.991	0.026
343	3.51	3.39	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	26785.29	0.014	0.991	0.026
344	3.39	3.27	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	26966.76	0.014	0.991	0.026
345	3.27	3.15	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	27148.23	0.014	0.991	0.026
346	3.15	3.03	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	27329.69	0.015	0.991	0.026
347	3.03	2.92	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	27511.16	0.015	0.991	0.026
348	2.92	2.80	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	27692.63	0.015	0.991	0.026
349	2.80	2.68	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	27874.09	0.015	0.991	0.026
350	2.68	2.56	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	28055.56	0.015	0.991	0.026
351	2.56	2.44	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	28237.03	0.015	0.991	0.026
352	2.44	2.32	1.05103	2.0	0.02623	0.05	1.06	37.80	4768.09	4498.20	40.07	28418.49	0.015	0.991	0.026
TOT						1.05			95361.86	89964.01					
AVG					0.0262		1.06	37.80			40.07				
CUM						12.54									

********** 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
333	4.581	7.84	0.78	0.11	0.24	0.00	0.03	0.24	0.00	9.70	12.98	8.22	0.02	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
334	4.462	7.84	0.78	0.10	0.24	0.00	0.03	0.24	0.00	9.70	12.97	7.72	0.02	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
335	4.343	7.84	0.78	0.10	0.24	0.00	0.03	0.24	0.00	9.70	12.96	7.36	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
336	4.224	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.94	7.10	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
337	4.105	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.93	6.91	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
338	3.986	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.92	6.78	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
339	3.867	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.91	6.68	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
340	3.748	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.89	6.61	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
341	3.629	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.88	6.56	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
342	3.510	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.87	6.52	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
343	3.391	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.86	6.49	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
344	3.272	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.85	6.47	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
345	3.153	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.84	6.46	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
346	3.034	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.83	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
347	2.915	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.82	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
348	2.796	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.81	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00

349	2.677	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.80	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
350	2.558	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.79	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
351	2.439	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.78	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
352	2.320	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.77	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.68	0.12	0.20	0.00	0.03	0.20	0.00	5.90			0.10	0.30	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	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
333	4.581	27.90	0.10	196.00	7.84	1.27	8.20	4.63	8.20	4.63	2.62	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
334	4.462	27.90	0.10	196.00	7.84	1.19	8.17	4.61	8.17	4.61	2.58	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
335	4.343	27.90	0.10	196.00	7.84	1.14	8.14	4.58	8.14	4.58	2.55	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
336	4.224	27.90	0.10	196.00	7.84	1.10	8.11	4.56	8.11	4.56	2.52	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
337	4.105	27.90	0.10	196.00	7.84	1.07	8.09	4.53	8.09	4.53	2.48	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
338	3.986	27.90	0.10	196.00	7.84	1.05	8.06	4.51	8.06	4.51	2.45	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
339	3.867	27.90	0.10	196.00	7.84	1.04	8.04	4.48	8.04	4.48	2.42	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
340	3.748	27.90	0.10	196.00	7.84	1.03	8.02	4.46	8.02	4.46	2.39	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
341	3.629	27.90	0.10	196.00	7.84	1.02	8.00	4.44	8.00	4.44	2.36	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
342	3.510	27.90	0.10	196.00	7.84	1.01	7.98	4.42	7.98	4.42	2.33	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
343	3.391	27.90	0.10	196.00	7.84	1.01	7.96	4.39	7.96	4.39	2.31	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
344	3.272	27.90	0.10	196.00	7.84	1.01	7.93	4.37	7.93	4.37	2.28	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
345	3.153	27.90	0.10	196.00	7.84	1.01	7.91	4.35	7.91	4.35	2.25	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
346	3.034	27.90	0.10	196.00	7.84	1.01	7.90	4.33	7.90	4.33	2.23	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
347	2.915	27.90	0.10	196.00	7.84	1.01	7.88	4.31	7.88	4.31	2.20	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
348	2.796	27.90	0.10	196.00	7.84	1.01	7.86	4.29	7.86	4.29	2.17	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
349	2.677	27.90	0.10	196.00	7.84	1.01	7.84	4.27	7.84	4.27	2.15	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
350	2.558	27.90	0.10	196.00	7.84	1.01	7.82	4.25	7.82	4.25	2.12	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
351	2.439	27.90	0.10	196.00	7.84	1.01	7.80	4.23	7.80	4.23	2.10	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
352	2.320	27.90	0.10	196.00	7.84	1.01	7.79	4.21	7.79	4.21	2.08	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

FINAL REPORT BAYOU CUTOFF WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
REACH NO. 14 FOLSE: RKM 2.32 TO COMPANY CANAL WATER QUALITY SENSITIVITY RUN ON CALIBRATION

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I uS/cm	CM-II MG/L	DO mg/L	BOD#1 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
353	UPR RCH	1.05103	27.90	0.10	196.00	7.84	1.01	7.79	4.21	7.79	4.21	2.08	0.00	0.00	0.00	21.00	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
353	2.32	2.20	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	28601.74	0.015	0.991	0.026
354	2.20	2.09	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	28784.98	0.015	0.991	0.026
355	2.09	1.97	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	28968.23	0.015	0.991	0.026

356	1.97	1.86	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	29151.47	0.016	0.992	0.026
357	1.86	1.74	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	29334.71	0.016	0.992	0.026
358	1.74	1.62	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	29517.96	0.016	0.993	0.026
359	1.62	1.51	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	29701.20	0.016	0.994	0.026
360	1.51	1.39	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	29884.45	0.016	0.995	0.026
361	1.39	1.28	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	30067.69	0.016	0.996	0.026
362	1.28	1.16	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	30250.94	0.016	0.997	0.026
363	1.16	1.04	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	30434.18	0.016	0.998	0.026
364	1.04	0.93	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	30617.42	0.016	0.999	0.026
365	0.93	0.81	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	30800.67	0.016	1.000	0.026
366	0.81	0.70	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	30983.91	0.017	1.002	0.027
367	0.70	0.58	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	31167.16	0.017	1.003	0.027
368	0.58	0.46	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	31350.40	0.017	1.004	0.027
369	0.46	0.35	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	31533.64	0.017	1.006	0.027
370	0.35	0.23	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	31716.89	0.017	1.007	0.027
371	0.23	0.12	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	31900.13	0.017	1.009	0.027
372	0.12	0.00	1.05103	2.0	0.02623	0.05	1.06	37.80	4647.89	4384.80	40.07	32083.38	0.017	1.010	0.027
TOT						1.02			92957.76	87695.99					
AVG					0.0262		1.06	37.80			40.07				
CUM						13.56									

********** 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
353	2.204	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.76	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
354	2.088	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.75	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
355	1.972	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.74	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
356	1.856	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.73	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
357	1.740	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.73	6.43	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
358	1.624	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.72	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
359	1.508	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.71	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
360	1.392	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.70	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
361	1.276	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.69	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
362	1.160	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.69	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
363	1.044	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.68	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
364	0.928	7.84	0.78	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.67	6.44	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
365	0.812	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.66	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
366	0.696	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.65	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
367	0.580	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.65	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
368	0.464	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.64	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
369	0.348	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.63	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
370	0.232	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.63	6.45	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
371	0.116	7.84	0.79	0.09	0.24	0.00	0.02	0.24	0.00	9.70	12.62	6.41	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
372	0.000	7.84	0.79	0.08	0.24	0.00	0.02	0.24	0.00	9.70	12.63	6.18	0.01	0.36	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.68	0.12	0.20	0.00	0.03	0.20	0.00	5.90			0.10	0.30	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	CM-I	CM-II	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	uS/cm	MG/L	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	
353	2.204	27.90	0.10	196.00	7.84	1.01	7.77	4.19	7.77	4.19	2.05	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
354	2.088	27.90	0.10	196.00	7.84	1.01	7.76	4.17	7.76	4.17	2.03	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
355	1.972	27.90	0.10	196.00	7.84	1.01	7.74	4.15	7.74	4.15	2.01	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
356	1.856	27.90	0.10	196.00	7.84	1.01	7.73	4.13	7.73	4.13	1.99	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
357	1.740	27.90	0.10	196.00	7.84	1.01	7.72	4.11	7.72	4.11	1.97	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
358	1.624	27.90	0.10	196.00	7.84	1.01	7.70	4.09	7.70	4.09	1.95	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
359	1.508	27.90	0.10	196.00	7.84	1.01	7.69	4.07	7.69	4.07	1.93	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
360	1.392	27.90	0.10	196.00	7.84	1.01	7.68	4.05	7.68	4.05	1.91	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
361	1.276	27.90	0.10	196.00	7.84	1.01	7.66	4.03	7.66	4.03	1.89	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
362	1.160	27.90	0.10	196.00	7.84	1.02	7.65	4.01	7.65	4.01	1.87	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
363	1.044	27.90	0.10	196.00	7.84	1.02	7.64	3.99	7.64	3.99	1.85	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
364	0.928	27.90	0.10	196.00	7.84	1.02	7.63	3.98	7.63	3.98	1.83	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
365	0.812	27.90	0.10	196.00	7.84	1.02	7.62	3.96	7.62	3.96	1.82	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
366	0.696	27.90	0.10	196.00	7.84	1.02	7.60	3.94	7.60	3.94	1.80	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
367	0.580	27.90	0.10	196.01	7.84	1.02	7.59	3.92	7.59	3.92	1.78	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
368	0.464	27.90	0.10	196.03	7.85	1.02	7.58	3.91	7.58	3.91	1.76	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
369	0.348	27.90	0.10	196.13	7.90	1.02	7.57	3.89	7.57	3.89	1.75	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
370	0.232	27.90	0.10	196.54	8.06	1.02	7.56	3.88	7.56	3.88	1.73	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
371	0.116	27.90	0.10	198.19	8.74	1.02	7.55	3.87	7.55	3.87	1.72	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00
372	0.000	27.90	0.10	204.78	11.46	0.98	7.54	3.89	7.54	3.89	1.73	0.00	0.00	0.00	0.00	21.00	0.00	0.	0.00

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STREAM SUMMARY                                          WATER QUALITY MODEL FOR BAYOU FOLSE/CUTOFF
BAYOU CUTOFF                                            WATER QUALITY SENSITIVITY RUN ON CALIBRATION

 TRAVEL TIME       =          13.56 DAYS

 MAXIMUM EFFLUENT  =           2.00 PERCENT

 FLOW              =   1.03000 TO    1.05103   m³/s
 DISPERSION        =   0.8508  TO    3.8784    m²/s
 VELOCITY          =   0.01604 TO    0.15455   m/s
 DEPTH             =   0.65    TO    1.59      m
 WIDTH             =  10.35    TO   41.15      m

 BOD DECAY         =    0.08   TO    0.16      per day
 NH3 DECAY         =    0.00   TO    0.00      per day
 SOD               =    4.44   TO    8.22      g/m²/d
 NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
 REAERATION        =    0.50   TO    1.94      per day
 BOD SETTLING      =    0.23   TO    0.24      per day
 NBOD DECAY        =    0.01   TO    0.14      per day
 NBOD SETTLING     =    0.35   TO    0.36      per day

 TEMPERATURE       =   25.90   TO   27.90      deg C
 DISSOLVED OXYGEN  =    0.98   TO    3.90      mg/L


     .....BEGIN SENSITIVITY RUN  1 ON PARAMETER SET  1 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  23 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN  2 ON PARAMETER SET  1 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  24 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  22 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  4 ON PARAMETER SET  2 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  22 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  24 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  20 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  23 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN  8 ON PARAMETER SET  4 AND COLUMN  2
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     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  23 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  22 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  22 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 11 ON PARAMETER SET  6 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  22 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  22 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED



     .....BEGIN SENSITIVITY RUN 13 ON PARAMETER SET  7 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  22 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  22 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 15 ON PARAMETER SET  8 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  22 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  22 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  22 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  22 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  22 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  22 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 21 ON PARAMETER SET 11 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  42 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  24 ITERATIONS
.....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  22 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  22 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  28 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 26 ON PARAMETER SET 13 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  41 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  23 ITERATIONS
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.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 28 ON PARAMETER SET 14 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  24 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  22 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  22 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  22 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 32 ON PARAMETER SET 16 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  24 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  22 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 34 ON PARAMETER SET 17 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  22 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  22 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  22 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  22 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  28 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  22 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 40 ON PARAMETER SET 20 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
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.....OXYGEN DEPENDENT RATES CONVERGENT IN  22 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 41 ON PARAMETER SET 21 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  22 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  22 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  22 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  22 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  22 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  22 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
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.....BEGIN SENSITIVITY RUN 47 ON PARAMETER SET 24 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  22 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  22 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  22 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 50 ON PARAMETER SET 25 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  22 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  22 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  22 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED



.....BEGIN SENSITIVITY RUN 53 ON PARAMETER SET 27 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
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.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  22 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  22 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  22 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  22 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  22 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  22 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  22 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  22 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED


.....EXECUTION COMPLETED
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SENSITIVITY ANALYSIS SUMMARY

BAYOU CUTOFF AND BAYOU FOLSE
WATER QUALITY CALIBRATION RUN

Plot 1 Base Model Minimum DO = 0.98

Parameter	%Param Chg	Min D.O.	%D.O. Chg	%Param Chg	Min D.O.	%D.O. Chg
Stream Baseflow	30.	1.01	3.3	-30.	0.90	-7.8
Initial Chorophyll a	30.	1.00	2.3	-30.	0.94	-4.5
Stream Velocity	30.	0.96	-2.2	-30.	0.98	0.5
Initial Temperature	2.	0.91	-7.4	-2.	1.03	4.9
CBOD Aerobic Decay Rate	30.	0.97	-0.7	-30.	0.99	0.8
CBOD2 Aerobic Decay Rate	30.	0.98	-0.1	-30.	0.98	0.1
CBOD Settling Rate	30.	0.98	-0.1	-30.	0.98	-0.2
CBOD2 Settling Rate	30.	0.98	0.0	-30.	0.98	0.0
NBOD Decay Rate	30.	0.98	0.0	-30.	0.98	0.0
NBOD Settling Rate	30.	0.98	0.0	-30.	0.98	-0.1
Benthal Demand	30.	0.84	-14.4	-30.	1.14	16.5
Stream Dispersion	30.	0.97	-0.8	-30.	0.98	0.5
Stream Reaeration	30.	1.13	15.6	-30.	0.72	-26.0
Headwater Flow	30.	1.01	3.3	-30.	0.90	-7.8
Headwater DO	30.	0.98	0.0	-30.	0.98	0.0
Headwater CBOD	30.	0.96	-1.7	-30.	0.98	0.1
Headwater CBOD2	30.	0.97	-0.9	-30.	0.98	0.1
Headwater NBOD	30.	0.98	0.0	-30.	0.98	0.0
Stream Depth	30.	0.94	-4.1	-30.	0.98	0.4
Wasteload Flow	30.	0.98	0.1	-30.	0.98	0.0
Wasteload Temperature	2.	0.98	0.0	-2.	0.98	0.0

Wasteload DO	30.	0.98	0.0	-30.	0.98	0.0
Wasteload CBOD	30.	0.98	0.0	-30.	0.98	0.0
Wasteload CBOD2	30.	0.98	0.0	-30.	0.98	0.0
Wasteload NBOD	30.	0.98	0.0	-30.	0.98	0.0
Lower Boundary Temperature	2.	0.98	0.0	-2.	0.98	0.0
Lower Boundary DO	30.	0.99	0.6	-30.	0.90	-8.4
Lower Boundary CBOD	30.	0.97	-0.5	-30.	0.98	0.5
Lower Boundary CBOD2	30.	0.98	-0.2	-30.	0.98	0.2
Lower Boundary NBOD	30.	0.98	0.0	-30.	0.98	0.0