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BAYOU MANCHAC WATERSHED PHASE I TMDLS FOR CHLORIDES, SULFATES, AND TOTAL DISSOLVED SOLIDS

SUBSEGMENT 040201

TMDL REPORT

By:
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TECHNICAL SUMMARY

Bayou Manchac, Subsegment 040201, was on the 2006 Integrated Report (combined 305(b) and 303(d) reports) and EPA's Consent Decree list of impaired waterbodies. Subsegment 040201 was found to be "not supporting" any of its designated uses of Primary Contact Recreation, Secondary Contact Recreation, and Fish and Wildlife Propagation. Bayou Manchac was subsequently scheduled for Total Maximum Daily Load (TMDL) development with other listed waters in the Lake Pontchartrain Basin. The suspected causes of impairment are low dissolved oxygen (DO), and elevated nitrate/nitrite, total phosphorous, chlorides, sulfates, total dissolved solids, total ammonia, and total fecal coliform. The suspected sources are Site Clearance (Land Development or Redevelopment), On-site Treatment Systems (Septic Systems and Similar Decentralized Systems), Sanitary Sewer Overflows (Collection System Failures), and unknown sources. Subsegment 040201 is also listed on the Draft 2008 and 2010 Integrated Reports. The listings are presented in Tables 1-3. This TMDL report addresses the chlorides, sulfates, and total dissolved solids (TDS) impairments.

Subsegment 040201 lies within East Baton Rouge, Ascension, and Iberville Parishes. Subsegment 040201 drains into the Amite River, which is the border between Livingston Parish and East Baton Rouge and Ascension Parishes.

At the time of this report, the contributions of individual sources of chlorides, sulfates, and TDS within the Bayou Manchac watershed were not certain. Several industrial facilities are known to have concentrations of the referenced pollutants in their discharges, however many other probable sources exist within the watershed, including many sewage treatment plants and wash water outfalls. LDEQ currently has no data on these other potential sources within the watershed, as chlorides, sulfates, and TDS limits are not typically included in permits for these types of facilities. However, TMDL survey data obtained for other facilities within the Lake Pontchartrain Basin indicate that sewage treatment plants may contribute significant loads of chlorides, sulfates, and TDS.

One of the suspected sources of chloride, sulfate, and TDS loading in the Bayou Manchac watershed is the potable water source, groundwater. All homes, businesses, and public agencies within the watershed utilize groundwater as the potable water source. The primary provider in the area is the Baton Rouge Water Company. Data obtained from the Department of Health and Hospitals indicated that the groundwater contained significant concentrations of chlorides, sulfates, and TDS. Some of these values were above the criteria for the watershed. This indicates that each home and business within the watershed is receiving water that contains these constituents and that water is then sent to local sewage treatment plants (STP). The STP then becomes responsible for the additional pollutant loading, regardless of the treatment process utilized by the facility. Additional sources of the loading may include people watering their lawns, washing cars or buildings, recreational uses of water, and individual home sewage treatment units.

Another suspected source of chlorides, sulfates, and TDS is the disinfection process that may be utilized for the hundreds of sewage treatment outfalls located within the watershed. Disinfection and dechlorination processes often involve chemicals that may provide chloride and sulfate ions once the wastewater reaches the ambient waterbody. The cost of treating the wastewater for chlorides, sulfates, and TDS is almost certainly cost prohibitive.

Table 1. Final 2006 Integrated Report (305(b)/303(d)) Listing for Subsegment 040201

Sub-segment Number	Subsegment Description	Type	Size (miles)	PCR	SCR	FWP	DWS	ONR	OYS	AGR	LAL	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Due Date	TMDL Priority	Suspected Sources of Impairment
N	Bayou Manchac-Headwaters to Amite River	River	18	N0t supporting	N0t supporting	N0t supporting						FWP	Ammonia (Total)	IRC 5	2011	Medium	Source Unknown
												FWP	Chloride	IRC 5	2011	Medium	Site Clearance (Land Development or Redevelopment)
												PCR	Fecal Coliform	IRC 5	2011	Medium	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
												PCR	Fecal Coliform	IRC 5	2011	Medium	Sanitary Sewer Overflows (Collection System Failures)
												SCR	Fecal Coliform	IRC 5	2011	Medium	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
												SCR	Fecal Coliform	IRC 5	2011	Medium	Sanitary Sewer Overflows (Collection System Failures)
												FWP	Nitrate/Nitrite (Nitrite + Nitrate as N)	IRC 5	2011	Medium	Source Unknown
												FWP	Oxygen, Dissolved	IRC 5	2011	Medium	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
												FWP	Oxygen, Dissolved	IRC 5	2011	Medium	Site Clearance (Land Development or Redevelopment)
												FWP	Phosphorus (Total)	IRC 5	2011	Medium	Source Unknown
												FWP	Sulfates	IRC 5	2011	Medium	Site Clearance (Land Development or Redevelopment)
												FWP	Total Dissolved Solids	IRC 5	2011	Medium	Site Clearance (Land Development or Redevelopment)

[A] Note: PCR=Primary Contact Recreation; SCR=Secondary Contact Recreation; FWP=Fish and Wildlife Propagation; DWS=Drinking Water Source; ONR=Outstanding Natural Resource; OYS=Oyster Propagation; AGR=Agriculture; LAL=Limited Aquatic Life and Wildlife Use

Table 2. Draft 2008 Integrated Report (305(b)/303(d)) Listing for Subsegment 040201

Subsegment Number	Subsegment Description	Type	Size (miles)	PCR	SCR	FWP	DWS	ONR	OYS	AGR	LAL	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Due Date	TMDL Priority	Suspected Sources of Impairment
LA040201	Bayou Manchac-From headwaters to Amite River	River	18	N0t supporting	Fully supporting	N0t supporting						FWP	Ammonia (Total)	IRC 5	2011	High	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
												FWP	Ammonia (Total)	IRC 5	2011	High	Site Clearance (Land Development or Redevelopment)
												FWP	Chloride	IRC 5	2011	High	Site Clearance (Land Development or Redevelopment)
												PCR	Fecal Coliform	IRC 5	2011	High	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
												PCR	Fecal Coliform	IRC 5	2011	High	Sanitary Sewer Overflows (Collection System Failures)
												FWP	Nitrate/Nitrite (Nitrite + Nitrate as N)	IRC 5	2011	High	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
												FWP	Nitrate/Nitrite (Nitrite + Nitrate as N)	IRC 5	2011	High	Site Clearance (Land Development or Redevelopment)
												FWP	Oxygen, Dissolved	IRC 5	2011	High	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
												FWP	Oxygen, Dissolved	IRC 5	2011	High	Site Clearance (Land Development or Redevelopment)
												FWP	Phosphorus (Total)	IRC 5	2011	High	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
												FWP	Phosphorus (Total)	IRC 5	2011	High	Site Clearance (Land Development or Redevelopment)
												FWP	Sulfates	IRC 5	2011	High	Site Clearance (Land Development or Redevelopment)
												FWP	Total Dissolved Solids	IRC 5	2011	High	Site Clearance (Land Development or Redevelopment)

[A] Note: PCR=Primary Contact Recreation; SCR=Secondary Contact Recreation; FWP=Fish and Wildlife Propagation; DWS=Drinking Water Source; ONR=Outstanding Natural Resource; OYS=Oyster Propagation; AGR=Agriculture; LAL= Limited Aquatic Life and Wildlife Use

Table 3. Draft 2010 Integrated Report (305(b)/303(d)) Listing for Subsegment 040201

Subsegment Number	Subsegment Description	Type	Size (miles)	Designated Water Body Uses								Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Due Date	TMDL Priority	Suspected Sources of Impairment
				PCR	SCR	FWP	DWS	ONR	OYS	AGR	LAL						
LA040201	Bayou Manchac-From headwaters to Amite River	River	18	N0t supporting	Fully supporting	N0t supporting						FWP	Chloride	IRC 5	2012	High	Site Clearance (Land Development or Redevelopment)
												PCR	Fecal Coliform	IRC 5	2012	High	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
												PCR	Fecal Coliform	IRC 5	2012	High	Sanitary Sewer Overflows (Collection System Failures)
												FWP	Oxygen, Dissolved	IRC 5	2012	High	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)
												FWP	Oxygen, Dissolved	IRC 5	2012	High	Site Clearance (Land Development or Redevelopment)
												FWP	Sulfates	IRC 5	2012	High	Site Clearance (Land Development or Redevelopment)
												FWP	Total Dissolved Solids	IRC 5	2012	High	Site Clearance (Land Development or Redevelopment)

[A] Note: PCR=Primary Contact Recreation; SCR=Secondary Contact Recreation; FWP=Fish and Wildlife Propagation; DWS=Drinking Water Source; ONR=Outstanding Natural Resource; OYS=Oyster Propagation; AGR=Agriculture; LAL= Limited Aquatic Life and Wildlife Use

Due to the lack of existing facility/outfall data, the uncertainty associated with load contributions from individual outfalls, the possible need to reevaluate the criteria, concerns of a less desirable sanitary issue, and prohibitive treatment costs, LDEQ is utilizing a phased TMDL approach for Bayou Manchac as shown in Table 4. This approach will allow LDEQ to gather more data for individual outfalls. In addition, LDEQ will have the opportunity evaluate the need to revise the chlorides, sulfates, and TDS criteria and at the same time, develop meaningful and implementable TMDL reports based upon the appropriate DO criteria and in accordance with EPA's Consent Decree (E. D. La. 2002) deadlines. At the same time, it will lead to improved water quality while providing local governments and businesses the opportunity to prepare and adjust to the new permit requirements that will be implemented as a result of the TMDL developed in Phases I and II.

Phase I will include the development of total maximum daily loads (TMDLs) and wasteload allocations (WLAs) based on the existing criteria. . However, implementation will occur in a phased manner. Phase I will serve as the first step towards meeting the chlorides, sulfates, and TDS criteria in Bayou Manchac. The implementation of permit limits will occur according to the following strategy.

Table 4. Bayou Manchac Phased TMDL Approach

Stage / Phase	Cl Criteria (mg/L)	SO_4 Criteria (mg/L)	TDS Criteria (mg/L)	Implementation Date
Phase I	**25**	**10**	**150**	**Phase I implementation required upon EPA approval of the TMDL and subsequent update of Louisiana's Water Quality Management Plan**
Primary Activities - Ecoregion-based UAA developed and Cl, SO_4, and TDS criteria revised and promulgated				
Phase II	**Appropriate criteria based on approved UAA**			**Phase II implementation required upon EPA approval of Phase II of the TMDL and subsequent update of Louisiana's Water Quality Management Plan**

Phase I Permit Implementation

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

1. New discharges of chlorides, sulfates, or total dissolved solids loads:

   Due to the lack of knowledge regarding the loading contributions from various types of facilities, natural sources, and the contributions from the local potable water source, permits for new facility outfalls will typically require only annual monitoring during the first full permitting cycle that occurs during Phase I. However, before the subsequent renewal of each permit, an assessment of chloride, sulfate, and total dissolved solids monitoring data from designated outfalls may be conducted to determine if permit limits are required during Phase I. Permit limits will be established based on regulatory guidelines and in accordance with LDEQ's Permitting Guidance Document For Implementing Louisiana Surface Water Quality Standards, Water Quality Management Plan Volume 3. Facilities with new discharges may be required to submit an environmental impact assessment to LDEQ's Water Permits Division. Once the TMDL is approved by EPA and LDEQ has determined that permit limits are needed, new facilities may have up to 3 years from their next permit renewal date to meet the Phase I permit limits. Applicable General Permit schedules will be updated to meet the requirements of the TMDL upon the first renewal of each series following the TMDL approval date. Examples of facility outfalls that will be considered are provided below.

   a. Annual monitoring will be required for outfall types included in, but not limited to, the list provided below. Upon renewal of each permit, existing facility data will be compared to the values of 250 mg/L (chlorides), 75 mg/L (sulfates), and 500 mg/L (total dissolved solids). Permit limits will be considered for a facility if the monitoring data exceeds the referenced values.

      i. Sanitary

      ii. Vehicle or equipment wash water

      iii. Wash rack wastewater

   b. Technology-based permit limits will be established for outfall types included in, but not limited to, the list provided below. Permit limits will be based on current regulatory guidelines and departmental procedures.

i. Industrial process outfalls that have demonstrated a reasonable potential to produce wastewater that will contain concentrations of chlorides, sulfates, or total dissolved solids.

ii. Stormwater for facilities identified according to item 1.b.i above.

iii. Any outfalls that have demonstrated a reasonable potential to produce wastewater that will contain concentrations of chlorides, sulfates, or total dissolved solids.

2. Existing discharges of chlorides, sulfates, or total dissolved solids loads:

Below are the limits and monitoring implementation activities for existing facility outfalls in the Bayou Manchac watershed. Existing unpermitted facility outfalls discovered to be discharging chloride, sulfate, and/or total dissolved solids loads without LPDES permit limits as of the TMDL approval date and unpermitted facility outfalls that are newly activated or reactivated and discharging chloride, sulfate, and/or TDS loads after the TMDL approval date are to be permitted according to the guidelines established herein for existing outfalls with permits. Permit limits will be established based on regulatory guidelines and accordance with LDEQ's Permitting Guidance Document For Implementing Louisiana Surface Water Quality Standards, Water Quality Management Plan Volume 3.

a. The following 4 facilities had one or more outfalls with permit limits or monitoring for chlorides and/or sulfates. They will retain their current permit limits or monitoring requirements.

i. Harcros Chemicals, Inc. (AI No. 2055, LPDES Permit No. LA0110825).

ii. Reagent Chemical & Research, Inc – St. Gabriel Facility (AI No. 2407, LPDES Permit No. LA0059579).

iii. Kinder Morgan Liquids Terminals St. Gabriel, LLC (AI No. 39978, LPDES Permit No. LA0052353).

iv. St. Gabriel Dehydration & NGL Production Facility (AI No. 138856, LPDES Permit No. LAG33A602).

b. All other facilities will conduct annual monitoring as described in item 1 above. Once the TMDL is approved by EPA and LDEQ has determined that permit limits are required, existing facilities may have up to 3 years from their next permit renewal date to meet the Phase I permit limits.

3. LDEQ reassesses Subsegment 040201 (Bayou Manchac). If, at a future date, LDEQ determines that Subsegment 040201 is meeting the appropriate chloride, sulfate, and TDS criteria and designated uses and/or impairments for these parameters do not exist, the use of permit limits for chlorides, sulfates, and TDS may be reevaluated.

Phase II will be developed based on the outcome of a planned use attainability analysis (UAA). This UAA is expected to propose new chloride, sulfate, and TDS criteria. Chloride, sulfate, and TDS TMDLs for Subsegment 040201 have a court-ordered due date of March 31, 2012. These new criteria are expected to be developed and promulgated within the next five (5) years.

In the event the new criteria is not developed and promulgated within five (5) years from the TMDL approval date, LDEQ intends to proceed in the following manner:

Case 1: The UAA study indicates that the existing chloride, sulfate, and total dissolved solids criteria are appropriate - the TMDLs will be implemented based on the existing criteria LDEQ's Permitting Guidance Document For Implementing Louisiana Surface Water Quality Standards, Water Quality Management Plan Volume 3.
Case 2: The UAA is not likely to be completed and/or approved - the TMDL will be implemented based on the existing criteria and in accordance with LDEQ's Permitting Guidance Document For Implementing Louisiana Surface Water Quality Standards, Water Quality Management Plan Volume 3.
Case 3: The UAA is in process and is expected to be approved – Phase II of the TMDL will be postponed for a maximum period of two (2) years. If the UAA has not been completed at the end of this two-year period, the UAA status will be reviewed again according to Cases 1 - 3.

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

The large-scale regionalization of sewage collection and treatment and the rehabilitation and upgrade of existing problematic (leaks, overflows, improperly sized pipes, etc.) sewage collection systems may help to reduce the chloride, sulfate, and TDS impairments in Bayou Manchac. This would consolidate the sewage treatment process into larger plants where alternative forms of disinfection may be cost effective. This project would only reduce the contributions from the disinfection and dechlorination processes and may not provide enough of a reduction in loadings to enable Bayou Manchac to meet its current criteria. Additional and reductions may be needed. Such reductions are likely to be cost prohibitive.

Loading attributed to any MS4 will be included in the WLA. Due to the variable nature of stormwater, this loading is not intended to be converted into permit limits or utilized as a target value for the MS4 permittees to achieve. The MS4 permittee must apply the appropriate BMPs to reduce the nonpoint source loading into the watershed as well as eliminate illicit dischargers. This may include the establishment of a cost effective monitoring program. It is recognized that many permitted and unpermitted facilities discharge into the areas regulated by the MS4 permits referenced in Tables 5 and 6. Dischargers affected by this TMDL are presented in Table 6.

Table 5. Subsegment 040201 - Total Maximum Daily Loads for Chlorides, Sulfates, and Total Dissolved Solids

Parameter	Criteria (mg/L)	Required Load Reductions (%)	WLA (lbs./day)	LA (lbs./day)	MOS (lbs./day)	TMDL (lbs./day)
Chlorides	25	34	14,169.6	1,572.3	3,935.5	19,677.4
Sulfates	10	35	5,654.7	642.0	1,574.2	7,871.0
Total Dissolved Solids	150	39	84,820.8	9,630.9	23,612.9	118,064.6

ALLOCATIONS	Chlorides		Sulfates		Total Dissolved Solids	
	% Reduction Required	Loading (lbs/day)	% Reduction Required	Loading (lbs/day)	% Reduction Required	Loading (lbs/day)
Point Source Wasteload Allocation (WLA)	34	11,780.00	35	4,679.00	39	70,184.00
Point Source Reserve MOS (20%)		2,945.00		1,170.00		17,546.00
East Baton Rouge Parish MS4 WLA (LAS000101; Nonpoint Loads; 60744.57 acres)	34	2,180.12	35	890.21	39	13,353.67
East Baton Rouge Parish MS4 MOS (LAS000101; Nonpoint Source Reserve MOS=20%)		545.03		222.41		3,338.42
Ascension Parish MS4 WLA (LAR041034; Nonpoint Loads; 5836.91 acres)	34	209.49	35	85.54	39	1,283.15
Ascension Parish MS4 MOS (LAR041034; Nonpoint Source Reserve MOS=20%)		52.37		21.37		320.79
Nonpoint Loads	34	1,572.34	35	642.03	39	9,630.90
Nonpoint Source Reserve MOS (20%)		393.09		160.41		2,407.72
TMDL		19,677.4		7,871.0		118,064.6

Table 6. Subsegment 040201 Point Sources With Potential to Discharge Chlorides, Sulfates, or Total Dissolved Solids Loads

											TMDL Permit Limits (mg/L)			WLA (lbs/day)			MOS (lbs/day)		
Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
1		LAS000101	East Baton Rouge Parish MS4	MS4	Various bayous, creeks, ditches, and canals	--		--	Variab le	multi-ple	--	--	--	2,209	901	13,529	552	226	3,382
2		LAR041034	Ascension Parish MS4	MS4	Various bayous, creeks, ditches, and canals	--		--	Variab le	multi-ple	--	--	--	212	87	1,300	53	22	325
3	1694	LA0037923	Kleinpeter Farms Dairy LLC	Process wastewater, eqpt and vehicle washwater	Drainage ditch, Old Ward's Creek, Ward's Creek Diversion Canal	48,400	0.0484	0.0605	2,500	1	25	10	150	10.0914	4.0366	60.5484	2.5229	1.0091	15.1371
	1694	LA0037923	Kleinpeter Farms Dairy LLC	Sanitary	Drainage ditch, Old Ward's Creek, Ward's Creek Diversion Canal	864	0.0009	0.0011		2	25	10	150	0.1801	0.0721	1.0809	0.0450	0.0180	0.2702
4	1980	LAG531612	Industrial Coatings Contractors Inc	Sanitary	Local drainage to Welsh Gully to Bayou Manchac	400	0.0004	0.0005	2,500	101	25	10	150	0.0834	0.0334	0.5004	0.0209	0.0083	0.1251
5	2055	LA0110825	Harcros Chemicals Inc	Stormwater	unnamed ditch to Bayou Braud to Spanish Lake	52,100,000	52.1000	65.1250	Inter-mittent	001	25	10	150	10,862.8500	4,345.1400	65,177.1000	2,715.7125	1,086.2850	16,294.2750
	2055	LA0110825	Harcros Chemicals Inc	Sanitary	unnamed ditch to Bayou Braud to Spanish Lake	500	0.0005	0.0006	Inter-mittent	003	25	10	150	0.1043	0.0417	0.6255	0.0261	0.0104	0.1564

											TMDL Permit Limits (mg/L)			WLA (lbs/day)			MOS (lbs/day)		
Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
6	2283	LA0059544	Ohmstede Ltd - St Gabriel Plant	Sanitary wastewater, hydrostatic test wastewater, small volume shop wastewater, and compressor condensate.	Bayou Braud into Spanish Lake	2,400	0.0024	0.0030	2,500	001	25	10	150	0.5004	0.2002	3.0024	0.1251	0.0500	0.7506
7	2407	LA0059579	Reagent Chemical & Research Inc - St Gabriel Facility	Wash rack water	Unnamed ditch to Bayou Braud	1,700	0.0017	0.0021	Report	001	250	10	150	3.5445	0.1418	2.1267	0.8861	0.0354	0.5317
	2407	LA0059579	Reagent Chemical & Research Inc - St Gabriel Facility	Rinse water and stormwater from the loading pad.	Unnamed ditch to Bayou Braud	30,400	0.0304	0.0380	Report	002	250	10	150	63.3840	2.5354	38.0304	15.8460	0.6338	9.5076
	2407	LA0059579	Reagent Chemical & Research Inc - St Gabriel Facility	Treated sanitary wastewater	Unnamed ditch to Bayou Braud	90	0.0001	0.0001	Report	003	25	10	150	0.0188	0.0075	0.1126	0.0047	0.0019	0.0281
	2407	LA0059579	Reagent Chemical & Research Inc - St Gabriel Facility	Lab rinse water	Unnamed ditch to Bayou Braud	1,000	0.0010	0.0013	Report	004	25	10	150	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128
	2407	LA0059579	Reagent Chemical & Research Inc - St Gabriel Facility	Stormwater runoff from containment area on the west side of the facility.	Unnamed ditch to Bayou Braud	5,900	0.0059	0.0074	Report	006	250	10	150	12.3015	0.4921	7.3809	3.0754	0.1230	1.8452
	2407	LA0059579	Reagent Chemical & Research Inc - St Gabriel Facility	Stormwater runoff from containment area on the east side of the facility.	Unnamed ditch to Bayou Braud	5,900	0.0059	0.0074	Report	007	250	10	150	12.3015	0.4921	7.3809	3.0754	0.1230	1.8452

											TMDL Permit Limits (mg/L)			WLA (lbs/day)			MOS (lbs/day)		
Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
8	2605	LAG470127	Gene's Car Care	Treated exterior vehicle wash wastewater	Storm drain then to Dawson Creek	5,000	0.0050	0.0063	Report	001	25	10	150.0	1.0425	0.4170	6.2550	0.2606	0.1043	1.5638
9	3492	LA0045942	LBC Baton Rouge LLC - Sunshine Terminal	Treated sanitary wastewater.	Bayou Paul	3,000	0.0030	0.0038	Report	005	25	10	150.0	0.6255	0.2502	3.7530	0.1564	0.0626	0.9383
10	3521	LAG530123	Allways Properties LLC	Treated sanitary wastewater	Geigy Road ditch to Hwy 30 ditch to Bayou Braud to Alligator Bayou to Bayou Manchac	200	0.0002	0.0003	<5,000	001	25	10	150.0	0.0417	0.0167	0.2502	0.0104	0.0042	0.0626
11	4339	LA0103462	Brenntag Southwest Inc	Treated sanitary wastewater	Unnamed ditch to Bayou Paul to Bayou Braud to Bayou Manchac	25	0.0000	0.0000	Report	004	25	10	150.0	0.0052	0.0021	0.0313	0.0013	0.0005	0.0078
	4339	LA0103462	Brenntag Southwest Inc	Treated sanitary wastewater	Unnamed ditch to Bayou Paul to Bayou Braud to Bayou Manchac	20	0.0000	0.0000	Report	005	25	10	150.0	0.0042	0.0017	0.0250	0.0010	0.0004	0.0063
12	6872	LAG530000	South Central Bell Btrglald	Treated sanitary wastewater	local drainage to Bayou Fountain	1,300	0.0013	0.0016	<2500	001	25	10	150.0	0.2711	0.1084	1.6263	0.0678	0.0271	0.4066
13	6882	LAG470214	All Star Toyota of Baton Rouge	Treated washrack wastewater	Wards Creek to Bayou Manchac	200	0.0002	0.0003		001	25	10	150.0	0.0417	0.0167	0.2502	0.0104	0.0042	0.0626
14	7191	LAG470211	Hollingsworth Richards Ford	Treated washrack wastewater	North Branch ditch to Wards Creek to Bayou Manchac	350	0.0004	0.0004		001	25	10	150.0	0.0730	0.0292	0.4379	0.0182	0.0073	0.1095

											TMDL Permit Limits (mg/L)			WLA (lbs/day)			MOS (lbs/day)		
Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
15	10356	LAG530000	Mistras Group	Treated sanitary wastewater	Airline Highway roadside ditch, then to Muddy Creek, then to Bayou Manchac	260	0.0003	0.0003	<5000 gpd	001	25	10	150.0	0.0542	0.0217	0.3253	0.0136	0.0054	0.0813
16	11081	LAG570452	Aerial Access Equipment Inc	Treated sanitary wastewater	Wards Creek to Bayou Manchac to Amite River	300	0.0003	0.0004	Report	002	25	10	150.0	0.0626	0.0250	0.3753	0.0156	0.0063	0.0938
17	12340	LAG480211	Southern Valve Service Inc.	Treated sanitary wastewater	Open ditch to roadside ditch to Bayou Manchac	720	0.0007	0.0009	<5000 gpd	002	25	10	150.0	0.1501	0.0600	0.9007	0.0375	0.0150	0.2252
	12340	LAG480211	Southern Valve Service Inc	**Valve washwater**	Open ditch to roadside ditch to Bayou Manchac	1,900	0.0019	0.0024		101	25	10	150.0	0.3962	0.1585	2.3769	0.0990	0.0396	0.5942
18	13340	LAG480345	ExxonMobil Oil Corp #51020	Exterior vehicle and equipment wash wastewater	Wards Creek	2,797	0.0028	0.0035		001	25	10	150.0	0.5832	0.2333	3.4990	0.1458	0.0583	0.8748
19	13375	LAG750424	ExxonMobil Oil Corp #52398	Exterior vehicle and equipment wash wastewater	Wards Creek to Bayou Manchac to Amite River	800	0.0008	0.0010		001	25	10	150.0	0.1668	0.0667	1.0008	0.0417	0.0167	0.2502
20	13698	LAG750574	Circle K #2709721	Exterior Vehicle Wash Wastewater	Wards Creek	851	0.0009	0.0011		001	25	10	150.0	0.1774	0.0710	1.0646	0.0444	0.0177	0.2662
21	13756	LA0103071	Industrial Electric Motor Service Inc (Outfall 1) Treated Sanitary wastewater	Treated sanitary wastewater	Into Ward's Creek via local drainage, then into Bayou Manchac	3,000	0.0030	0.0038	Report	001	25	10	150.0	0.6255	0.2502	3.7530	0.1564	0.0626	0.9383
	13756	LA0103071	Industrial Electric Motor Service Inc (Outfall 3) Dynamometer cooling water	Dynamometer cooling water	Into Ward's Creek via local drainage, then into Bayou Manchac	1,000	0.0010	0.0013	Report	003	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128

											TMDL Permit Limits (mg/L)			WLA (lbs/day)			MOS (lbs/day)		
Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
22	14505	LAG750386	RR Cassidy Inc	Exterior Vehicle Wash Wastewater	Bayou Manchac	200	0.0002	0.0003		001	25	10	150.0	0.0417	0.0167	0.2502	0.0104	0.0042	0.0626
	14505	LAG750386	RR Cassidy Inc	Treated Sanitary Wastewater	Bayou Manchac	5,000	0.0050	0.0063		002	25	10	150.0	1.0425	0.4170	6.2550	0.2606	0.1043	1.5638
23	14882	LAG750616	Enterprise Rent A Car - Enterprise Leasing Co of New Orleans	Exterior Vehicle Wash Wastewater	Bayou Manchac to Amite River	400	0.0004	0.0005		001	25	10	150.0	0.0834	0.0334	0.5004	0.0209	0.0083	0.1251
24	15121	LAG750518	Louisiana Lift & Equipment Inc	Exterior vehicle and equipment wash wastewater	Bayou Manchac to Amite River	1,000	0.0010	0.0013		001	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128
	15121	LAG750518	Louisiana Lift & Equipment Inc	Treated Sanitary Wastewater	Bayou Manchac to Amite River	340	0.0003	0.0004	<5,000 gpd	002	25	10	150.0	0.0709	0.0284	0.4253	0.0177	0.0071	0.1063
25	15667	LAG750389	ExxonMobil Corp - RAS #53838	Exterior Vehicle Wash Wastewater	Dawson Creek	1,027	0.0010	0.0013		001	25	10	150.0	0.2141	0.0857	1.2848	0.0535	0.0214	0.3212
26	16225	LAG470155	Gerry Lane Chevrolet	Washrack wastewater, shop floor washdown, paint booth washdown, and wet sanding wastewaters.	Wards Creek to Bayou Manchac	3,350	0.0034	0.0042		001	25	10	150.0	0.6985	0.2794	4.1909	0.1746	0.0698	1.0477
27	17972	LA009461	Ewing Distributors Inc - Roundoak Shopping Center	Vehicle wash wastewater and treated sanitary wastewater	Ward Creek to Bayou Manchac via local drainage	6,582	0.0066	0.0082	Report	001	25	10	150.0	1.3723	0.5489	8.2341	0.3431	0.1372	2.0585
28	18100	LAG40519	Motel 6 LP	Treated sanitary wastewater	Wards Creek then to Bayou Manchac	12,950	0.0130	0.0162	<25,000	001	25	10	150.0	2.7001	1.0800	16.2005	0.6750	0.2700	4.0501
29	18133	LAG750237	Hammond Aire Auto Spa	Treated exterior vehicle wash wastewater	Wards Creek	18,000	0.0180	0.0225	Report	001	25	10	150.0	3.7530	1.5012	22.5180	0.9383	0.3753	5.6295

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
30	18589	LAG540163	World-Wide Environmental Services LLC - Woodhaven Subdivision	Treated sanitary wastewater	Ditch, Muddy Creek, Bayou Manchac	8,000	0.0080	0.0100	<25,000	001	25	10	150.0	1.6680	0.6672	10.0080	0.4170	0.1668	2.5020
31	18601	LAG570086	World-Wide Environmental Solutions LLC - Perkins Oak Subdivision	Treated sanitary wastewater	Unnamed ditch then to Welsh Gully	78,800	0.0788	0.0985	<100,000	001	25	10	150.0	16.4298	6.5719	98.5788	4.1075	1.6430	24.6447
32	18626	LAG540161	World-Wide Environmental Solutions LLC - Tall Timbers Subdivision	Treated sanitary wastewater	A Highway 42 roadside ditch, then to Henderson Bayou, then to the Amite River	20,000	0.0200	0.0250	25,000 gpd	001	25	10	150.0	4.1700	1.6680	25.0200	1.0425	0.4170	6.2550
33	18950	LAG540152	World-Wide Environmental Solutions LLC - Jefferson Estates Subdivision	Treated sanitary wastewater	Highway 73 roadside ditch, then to an unnamed ditch, then to Muddy Creek, then to Bayou Manchac	14,400	0.0144	0.0180	<25,000	001	25	10	150.0	3.0024	1.2010	18.0144	0.7506	0.3002	4.5036
34	19084	LAG532986	Lamar Advertising Co Inc (Outfall 1)	Treated sanitary wastewater	To an unnamed ditch, then to Wards Creek Diversional Canal, then to Bayou Manchac	20	0.0000	0.0000	<2,500 gpd	001	25	10	150.0	0.0042	0.0017	0.0250	0.0010	0.0004	0.0063
	19084	LAG532986	Lamar Advertising Co Inc (Outfall 5)	Treated sanitary wastewater	To an unnamed ditch, then to Wards Creek Diversional Canal, then to Bayou Manchac	400	0.0004	0.0005	<2,500 gpd	005	25	10	150.0	0.0834	0.0334	0.5004	0.0209	0.0083	0.1251
35	19291	LAG750044	MKL Enterprises LLC	Exterior vehicle wash wastewater	Bayou Manchac	1,400	0.0014	0.0018		001	25	10	150.0	0.2919	0.1168	1.7514	0.0730	0.0292	0.4379

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
36	19568	LAG570038	Holiday Inn Siegen Lane	Treated sanitary wastewater	Roadside ditch, Claycut Bayou, then to Bayou Manchac	8,140	0.0081	0.0102	<100, 000	001	25	10	150.0	1.6972	0.6789	10.1831	0.4243	0.1697	2.5458
37	19731	LAG530180	EBR Sheriff's Office - Kleinpeter Substation	Treated sanitary wastewater	Unnamed ditch, then into unnamed canal, then into Bayou Manchac	300	0.0003	0.0004	<5,00 0 gpd	001	25	10	150.0	0.0626	0.0250	0.3753	0.0156	0.0063	0.0938
38	20039	LAG570082	Mo-Dad Utilities LLC - Willow Lake Subdivision	Treated sanitary wastewater	Open ditch, then to unnamed ditch, local drainage, then to Spanish Lake	91,200	0.0912	0.1140	<100, 000 god	001	25	10	150.0	19.0152	7.6061	114.0912	4.7538	1.9015	28.5228
39	20321	LAG480427	Jacobs Engineering Group Inc	Cooling tower blowdown	Bayou Manchac to Amite River	3,700	0.0037	0.0046	<25,0 00 gpd	006	25	10	150.0	0.7715	0.3086	4.6287	0.1929	0.0771	1.1572
40	20619	LAG750251	College Chevron	Exterior Vehicle Wash Wastewater	Dawson Creek to Ward Creek to Bayou Manchac	200	0.0002	0.0003		001	25	10	150.0	0.0417	0.0167	0.2502	0.0104	0.0042	0.0626
41	22414	LAG750196	ExxonMobil Oil Corp #52186	Exterior Vehicle Wash Wastewater	Corporation Canal to Bayou Duplantier	1,097	0.0011	0.0014		001	25	10	150.0	0.2287	0.0915	1.3723	0.0572	0.0229	0.3431
42	22750	LAG530510	EDO Specialty Plastics - Perkins Road Facility	Treated Sanitary Wastewater	Wards Creek	1,020	0.0010	0.0013	<5,00 0 gpd	001	25	10	150.0	0.2127	0.0851	1.2760	0.0532	0.0213	0.3190
43	22795	LAG480226	Pathway Surfaces Inc.	Treated Sanitary Wastewater	Wards Creek to Bayou Manchac	3,000	0.0030	0.0038	<5,00 0 gpd	001	25	10	150.0	0.6255	0.2502	3.7530	0.1564	0.0626	0.9383
	22795	LAG480226	Pathway Surfaces Inc.	Equipment Wash Water	Wards Creek to Bayou Manchac	2,000	0.0020	0.0025	Report	002	25	10	150.0	0.4170	0.1668	2.5020	0.1043	0.0417	0.6255
44	16202	LAG470715;	Check Engine (Automotive Dealership)	Shop floor wastewater and sanitary wastewater	Ditch to Welsh Gully to Bayou Manchac	280	0.0003	0.0004		001	25	10	150.0	0.0584	0.0234	0.3503	0.0146	0.0058	0.0876

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
45	25186	LAG532241	CMC Construction Services - Concrete Accessories	Treated Sanitary Wastewater	Via pipe to local drainage, then to Bayou Manchac Diversion Canal	2,000	0.0020	0.0025	<5,000 gpd	001	25	10	150.0	0.4170	0.1668	2.5020	0.1043	0.0417	0.6255
46	25270	LAG750125	Wild's Car Care	Treated carwash wastewater	Wards Creek	3,782	0.0038	0.0047	Report	001	25	10	150.0	0.7885	0.3154	4.7313	0.1971	0.0789	1.1828
47	25952	LAG750366	Deep South Crane & Rigging	Exterior vehicle and equipment wash wastewater	Ward Creek	2,800	0.0028	0.0035		001	25	10	150.0	0.5838	0.2335	3.5028	0.1460	0.0584	0.8757
	25952	LAG750366	Deep South Crane & Rigging	Sanitary wastewater		1,440	0.0014	0.0018		002	25	10	150.0	0.3002	0.1201	1.8014	0.0751	0.0300	0.4504
	25952	LAG750366	Deep South Crane & Rigging	Wastewater from portable vehicle washing operations	Ward Creek	1,116	0.0011	0.0014		003	25	10	150.0	0.2327	0.0931	1.3961	0.0582	0.0233	0.3490
	25952	LAG750366	Deep South Crane & Rigging	Commingle vehicle washwater and sanitary wastewater		1,000	0.0010	0.0013		004	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128
48	26080	LA0100901	USDA ARS Honey Bee Breeding Lab	Treated sanitary wastewater, lab washwater, equipment washwater, and floor washdown.	Unnamed ditch, to Elbow Bayou, then to Bayou Fountain, then to Bayou Manchac	4,320	0.0043	0.0054	Report	001	25	10	150.0	0.9007	0.3603	5.4043	0.2252	0.0901	1.3511
49	26617	LAG480211	Southern Valve Service Inc	Treated sanitary wastewater	Unnamed ditch to Wards Creek to Bayou Manchac	450	0.0005	0.0006	<5,000	001	25	10	150.0	0.0938	0.0375	0.5630	0.0235	0.0094	0.1407

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
	26617	LAG480211	Southern Valve Service Inc	Equipment washwater	Unnamed ditch to Wards Creek to Bayou Manchac	2,028	0.0020	0.0025	Report	002	25	10	150.0	0.4228	0.1691	2.5370	0.1057	0.0423	0.6343
50	26632	LAG530539	Dana Suttles Truck Leasing LLC	Treated sanitary wastewater	Highway ditch then tributary of Bayou Braud	1,200	0.0012	0.0015	<5,000 gpd	001	25	10	150.0	0.2502	0.1001	1.5012	0.0626	0.0250	0.3753
51	26984	LAG532773	St Gabriel Holdings LLC - St Gabriel Site	Treated sanitary wastewater	Facility via pipe to local drainage then to Bayou Braud	2,340	0.0023	0.0029	Report	001	25	10	150.0	0.4879	0.1952	2.9273	0.1220	0.0488	0.7318
52	29822	LAG531105	LSU Fire & Emergency Training Institute	Treated sanitary wastewater	Elbow Bayou then into Bayou Fountain	3,500	0.0035	0.0044	<5,000 gpd	001	25	10	150.0	0.7298	0.2919	4.3785	0.1824	0.0730	1.0946
53	31120	LA0103179	Geo Heat Exchangers LLC	Treated sanitary wastewater, hydrostatic test water, washdown with no detergents, compressor condensate & small volume shop wastewaters.	Bayou Braud	3,200	0.0032	0.0040	Report	001	25	10	150.0	0.6672	0.2669	4.0032	0.1668	0.0667	1.0008
54	31173	LAG750304	Industrial Enterprises Inc	Exterior Vehicle Wash Wastewater	Hurricane Creek	8,520	0.0085	0.0107		001	25	10	150.0	1.7764	0.7106	10.6585	0.4441	0.1776	2.6646
55	33567	LA0092690	Natural Resources Recovery - Pecue Lane Site	Treated sanitary wastewater	Wards Creek to Wards Creek Diversion Canal	20	0.0000	0.0000	Report	103	25	10	150.0	0.0042	0.0017	0.0250	0.0010	0.0004	0.0063
56	33621	LAG110051	Dolese Brothers Co - Prairieville Plant (Concrete)	Stormwater and aggregate spray	Muddy Creek to Bayou Manchac	1,680	0.0017	0.0021		001	25	10	150.0	0.3503	0.1401	2.1017	0.0876	0.0350	0.5254

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
	33621		Dolese Brothers Co - Prairieville Plant (Concrete)	Stormwater and aggregate spray		1,680	0.0017	0.0021		002	25	10	150.0	0.3503	0.1401	2.1017	0.0876	0.0350	0.5254
57	33727	LAG750055	Take 5 Oil Change	Exterior vehicle wash wastewater	Dawson Creek to Ward Creek to Bayou Manchac	1,000	0.0010	0.0013		001	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128
58	33740	LA0103845	St Gabriel City of - Sunshine WWTP	Treated sanitary wastewater	Drainage canal, then into Bayou Paul, then into Bayou Braud, then into Bayou Manchac	126,000	0.1260	0.1575	Report	001	25	10	150.0	26.2710	10.5084	157.6260	6.5678	2.6271	39.4065
59	34054	LAG480240	Analytic Stress Relieving	Treated sanitary wastewater	Bluff Swamp	1,000	0.0010	0.0013	<5,000 gpd for sanitary	001	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128
	34054	LAG480240	Analytic Stress Relieving	Treated sanitary wastewater		1,000	0.0010	0.0013		002	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128
60	37099	LA0108898	Sorrento Super Stop	Treated sanitary (see comment for flow)	Panama Canal vial local drainage	13,000	0.0130	0.0163	Report	001	25	10	150.0	2.7105	1.0842	16.2630	0.6776	0.2711	4.0658
	37099	LA0108898	Sorrento Super Stop	Combined washwater and stormwater		308	0.0003	0.0004		002	25	10	150.0	0.0642	0.0257	0.3853	0.0161	0.0064	0.0963
61	37987	LAG531072	Popeye's Cajun Provisions Inc	Treated sanitary wastewater	Local drainage then to Bayou Manchac	1,750	0.0018	0.0022	<5,000 gpd	001	25	10	150.0	0.3649	0.1460	2.1893	0.0912	0.0365	0.5473
62	38304	LA0104701	Entek Environmental Laboratories	Treated sanitary wastewater, once through non-contact cooling water, and laboratory wastewater	By pipe to local drainage then into Wards Creek	700	0.0007	0.0009	<5,000 for sanitary	001	25	10	150.0	0.1460	0.0584	0.8757	0.0365	0.0146	0.2189

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
63	39978	LA0052353	Kinder Morgan Liquids Terminals St Gabriel LLC	Intermittent discharge of stormwater runoff from the diked tand farm stroage area and truck loading areas, area washdown water, and previously monitored effluent from outfall 101.		366,425	0.3664	0.4580		001	25	10	150.0	76.3996	30.5598	458.3977	19.0999	7.6400	114.5994
	39978	LA0052353	Kinder Morgan Liquids Terminals St Gabriel LLC	Discharge of stormwater runoff from the non-diked area on the north side of the facility including the urea ammonium nitrate (UAN) rail spur pipeline pump area, area washdown water, and previously monitored effluent from outfalls 102 and 202.		13,433	0.0134	0.0168		002	25	10	150.0	2.8008	1.1203	16.8047	0.7002	0.2801	4.2012
	39978	LA0052353	Kinder Morgan Liquids Terminals St Gabriel LLC	Discharge of stormwater from the nondiked area on the south side of the facility and previously monitored effluent from outfall 103		26,982	0.0270	0.0337		003	25	10	150.0	5.6257	2.2503	33.7545	1.4064	0.5626	8.4386

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
	39978	LA0052353	Kinder Morgan Liquids Terminals St Gabriel LLC	Treated sanitary wastewater		500	0.0005	0.0006		004	25	10	150.0	0.1043	0.0417	0.6255	0.0261	0.0104	0.1564
	39978	LA0052353	Kinder Morgan Liquids Terminals St Gabriel LLC	Discharge of stormwater from the nondiked area on the north central side of the facility including the hazardous waste storage pad.		16,000	0.0160	0.0200		005	25	10	150.0	3.3360	1.3344	20.0160	0.8340	0.3336	5.0040
64	40115	LAG750604	Coast Machinery Inc	Exterior vehicle wash wastewater	Ditch to Wards Creek to Bayou Manchac	100	0.0001	0.0001		001	25	10	150.0	0.0209	0.0083	0.1251	0.0052	0.0021	0.0313
65	40464	LAG540067	Total Environmental Solutions Inc - Plantation Gardens Subdivision	Treated sanitary wastewater	Unnamed ditch then into Bayou Paul	21,200	0.0212	0.0265	<25,000 gpd	001	25	10	150.0	4.4202	1.7681	26.5212	1.1051	0.4420	6.6303
66	40625	LAG110087	Ascension Ready Mix Plant #1	Process wastewater and process area stormwater	Ditch to Bluff Swamp	100	0.0001	0.0001		001	25	10	150.0	0.0209	0.0083	0.1251	0.0052	0.0021	0.0313
67	40646	LAG540030	World-Wide Environmental Solutions LLC - Manchac Estate Campsites	Treated sanitary wastewater (oxidation pond)	Unnamed ditch then to Bayou Manchac	11,800	0.0118	0.0148		001	25	10	150.0	2.4603	0.9841	14.7618	0.6151	0.2460	3.6905
68	41303	LAG570143	Mo-Dad Utilities LLC - The Lake at Manchac Subdivision	Treated sanitary wastewater	Highway ditch then into Bluff Swamp	39,600	0.0396	0.0495	<100,000 gpd	001	25	10	150.0	8.2566	3.3026	49.5396	2.0642	0.8257	12.3849
69	41307	LAG540885	Mo-Dad Utilities LLC - Cypress Lake Subdivision	Treated sanitary wastewater	Muddy Creek	22,800	0.0228	0.0285	<25,000 gpd	001	25	10	150.0	4.7538	1.9015	28.5228	1.1885	0.4754	7.1307
70	41334	LAG530181	Arlington Preperatory Academy	Treated sanitary wastewater	Unnamed ditch, Bayou Fountain, Bayou Manchac	2,140	0.0021	0.0027	<5,000 gpd	001	25	10	150.0	0.4462	0.1785	2.6771	0.1115	0.0446	0.6693

											TMDL Permit Limits (mg/L)			WLA (lbs/day)			MOS (lbs/day)		
Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
71	41853	LAG540620	Total Environmental Solutions Inc - Old Perkins Place Subdivision	Treated sanitary wastewater	Unnamed ditch then to Welsh Gully	12,400	0.0124	0.0155	<25,000 gpd	001	25	10	150.0	2.5854	1.0342	15.5124	0.6464	0.2585	3.8781
72	41864	LAG530700	Hydrochem Industrial Service Inc	Treated sanitary wastewater	Local drainage then to the Amite River	800	0.0008	0.0010	<5,000 gpd	001	25	10	150.0	0.1668	0.0667	1.0008	0.0417	0.0167	0.2502
73	41922	LAG750126	Isle of Louisiane Car Wash LLC (Carwash)	Exterior vehicle wash wastewater	Bayou Duplantier	910	0.0009	0.0011		001	25	10	150.0	0.1897	0.0759	1.1384	0.0474	0.0190	0.2846
74	42009	LAG570195	Wastewater Treatment Utilities Inc - Brightside Crossing Apartments STP	Treated sanitary wastewater	Elbow Bayou then into Bayou Fountain	90,000	0.0900	0.1125	<100,000 gpd	001	25	10	150.0	18.7650	7.5060	112.5900	4.6913	1.8765	28.1475
75	42238	LAG530981	Lake Market Inc Grocery	Treated sanitary wastewater	Unnamed drainage ditch then to White Cypress Swamp Canal	2,985	0.0030	0.0037	<5,000 gpd	001	25	10	150.0	0.6224	0.2489	3.7342	0.1556	0.0622	0.9336
76	42328	LAG750073	Terrace Properties	Exterior Vehicle Wash Wastewater	North Branch to Wards Creek to Bayou Manchac	253	0.0003	0.0003	Report	001	25	10	150.0	0.0528	0.0211	0.3165	0.0132	0.0053	0.0791
77	42439	LAG530364	McBR Management Co - McDonald's	Treated sanitary wastewater	Highway 948 roadside ditch, then to Ward's Creek, then to Bayou Manchac	4,300	0.0043	0.0054	<5,000 gpd	001	25	10	150.0	0.8966	0.3586	5.3793	0.2241	0.0897	1.3448
78	42601	LAG750680	Auger Services	Exterior Vehicle Wash Wastewater	Local drainage then into Muddy Creek	500	0.0005	0.0006	Report	001	25	10	150.0	0.1043	0.0417	0.6255	0.0261	0.0104	0.1564
79	43000	LAG540943	Raybons Village	Treated sanitary wastewater	Through local drainage then into Bluff Swamp	12,000	0.0120	0.0150	<25,000 gpd	001	25	10	150.0	2.5020	1.0008	15.0120	0.6255	0.2502	3.7530
80	43111	LAG530821	S&T Property Inc	Treated sanitary wastewater	Local drainage then into Old Ward's Creek	3,200	0.0032	0.0040	<5,000 gpd	001	25	10	150.0	0.6672	0.2669	4.0032	0.1668	0.0667	1.0008

											TMDL Permit Limits (mg/L)			WLA (lbs/day)			MOS (lbs/day)		
Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
81	43147	LAG540929	Mo-Dad Utilities LLC - The Reserves at Willow Lake	Treated sanitary wastewater	Local drainage then into Muddy Creek	16,400	0.0164	0.0205	<25,000 gpd	001	25	10	150.0	3.4194	1.3678	20.5164	0.8549	0.3419	5.1291
82	43148	LAG540927	Mo-Dad Utilities LLC - Manchac Highlands Subdivision	Treated sanitary wastewater	Local drainage then into Alligator Bayou	14,000	0.0140	0.0175	<25,000 gpd	001	25	10	150.0	2.9190	1.1676	17.5140	0.7298	0.2919	4.3785
83	43265	LAG530838	Sonic Drive-In	Treated sanitary wastewater	Local drainage then into the Amite River	1,200	0.0012	0.0015	<5,000 gpd	001	25	10	150.0	0.2502	0.1001	1.5012	0.0626	0.0250	0.3753
84	43308	LAG530653	Royal Motel	Treated sanitary wastewater	Unnamed ditch then to Bayou Manchac	4,300	0.0043	0.0054	<5,000 gpd	001	25	10	150.0	0.8966	0.3586	5.3793	0.2241	0.0897	1.3448
85	43362	LA0103853	St Gabriel City of - WWTP	Treated sanitary wastewater	Drainage canal, to Bayou Braud, to Bayou Manchac	100,000	0.1000	0.1250	100,000 gpd	001	25	10	150.0	20.8500	8.3400	125.1000	5.2125	2.0850	31.2750
86	43423	LAG530776	Sterling Prop	Treated sanitary wastewater	Local drainage then into Bayou Manchac	40	0.0000	0.0001	<2,500 gpd	001	25	10	150.0	0.0083	0.0033	0.0500	0.0021	0.0008	0.0125
87	43456	LAG540704	Strategic Restuarants Acquisition Co LLC - Burger King Restaurant #10762	Treated sanitary wastewater	Highway 73 roadside ditch, then to Johnson Bayou, then to Jim Bayou, then by local drainage to Bayou Manchac	8,000	0.0080	0.0100	<25,000 gpd	001	25	10	150.0	1.6680	0.6672	10.0080	0.4170	0.1668	2.5020
88	43864	LAG540820	Wastewater Treatment Utilities Inc - Ridgewood Subdivision STP	Treated sanitary wastewater	Local drainage then into Muddy Creek	12,000	0.0120	0.0150	<25,000 gpd	001	25	10	150.0	2.5020	1.0008	15.0120	0.6255	0.2502	3.7530
89	43865	LAG540819	Wastewater Treatment Utilities Inc - Lamonte Subdivision STP	Treated sanitary wastewater	Local drainage then into Jim Bayou	10,000	0.0100	0.0125	<25,000 gpd	001	25	10	150.0	2.0850	0.8340	12.5100	0.5213	0.2085	3.1275

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
90	43877	LAG570298	Wastewater Treatment Utilities Inc - Jefferson Oaks Subdivision STP	Treated sanitary wastewater	Local drainage, then into Muddy Creek, then into Bayou Manchac	30,000	0.0300	0.0375	<100,000 gpd	001	25	10	150.0	6.2550	2.5020	37.5300	1.5638	0.6255	9.3825
91	43879	LAG540829	Wastewater Treatment Utilities Inc - St Andrews Subdivision STP	Treated sanitary wastewater	Local drainage then into Bayou Manchac	12,000	0.0120	0.0150	<25,000 gpd	001	25	10	150.0	2.5020	1.0008	15.0120	0.6255	0.2502	3.7530
92	43880	LAG570079	Wastewater Treatment Utilities Inc - Hunter's Trace Subdivision STP	Treated sanitary wastewater	Local drainage then into Muddy Creek	40,800	0.0408	0.0510	<100,000 gpd	001	25	10	150.0	8.5068	3.4027	51.0408	2.1267	0.8507	12.7602
93	43881	LAG540830	Wastewater Treatment Utilities Inc - Lake at Twin Oaks Subdivision STP	Treated sanitary wastewater	Local drainage then into Johnson Bayou	13,200	0.0132	0.0165	<25,000 gpd	001	25	10	150.0	2.7522	1.1009	16.5132	0.6881	0.2752	4.1283
94	43882	LAG540818	Wastewater Treatment Utilities Inc - Willow Cove Subdivision STP	Treated sanitary wastewater	Local drainage then into Muddy Creek	8,000	0.0080	0.0100	<25,000 gpd	001	25	10	150.0	1.6680	0.6672	10.0080	0.4170	0.1668	2.5020
95	43883	LAG570096	Wastewater Treatment Utilities Inc - Manchac Plantation Subdivision STP	Treated sanitary wastewater	Unnamed ditch then into Bayou Manchac	49,600	0.0496	0.0620	<100,000 gpd	001	25	10	150.0	10.3416	4.1366	62.0496	2.5854	1.0342	15.5124
96	43884	LAG570097	Wastewater Treatment Utilities Inc - Manchac Crossing Subdivision STP	Treated sanitary wastewater	Unnamed ditch then into Bayou Manchac	49,600	0.0496	0.0620	<100,000 gpd	001	25	10	150.0	10.3416	4.1366	62.0496	2.5854	1.0342	15.5124
97	52328	LA0110817	River City Equestrian Center LLC	treated sanitary wastewater and equus caballus washwater	Muddy Creek	200	0.0002	0.0003	2,500	001	25	10	150.0	0.0417	0.0167	0.2502	0.0104	0.0042	0.0626
98	69881	LAG110042	LA Concrete Products	Process wastewater and process area stormwater	Local drainage to Ward's Creek	350	0.0004	0.0004	<5,000 sanitary	001	25	10	150.0	0.0730	0.0292	0.4379	0.0182	0.0073	0.1095

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
	69881	LAG110042	LA Concrete Products	Treated sanitary wastewater		600	0.0006	0.0008		005	25	10	150.0	0.1251	0.0500	0.7506	0.0313	0.0125	0.1877
99	70008	LAG750575	Circle K #2709726	Exterior Vehicle Wash Wastewater	North Branch	720	0.0007	0.0009		001	25	10	150.0	0.1501	0.0600	0.9007	0.0375	0.0150	0.2252
100	70009	LAG750572	Circle K #2709718	Exterior Vehicle Wash Wastewater	Dawson Creek	720	0.0007	0.0009		001	25	10	150.0	0.1501	0.0600	0.9007	0.0375	0.0150	0.2252
101	79062	LAG541339	WalMart Supercenter #5056	treated sanitary wastewater	Welsh Gully to Bayou Manchac	14,500	0.0145	0.0181	25,000	001	25	10	150.0	3.0233	1.2093	18.1395	0.7558	0.3023	4.5349
102	79176	LAG532331	Dutchtown Tiger Mart	treated sanitary wastewater	Effluent pipe to Hwy 73 ditch to Johnson Bayou	2,160	0.0022	0.0027	5,000	001	25	10	150.0	0.4504	0.1801	2.7022	0.1126	0.0450	0.6755
103	79640	LAG750390	Circle K #2709728	Exterior Vehicle Wash Wastewater	Open parish ditch via Airline Highway then into Bayou Manchac then into the Amite River then into Lake Maurepas	720	0.0007	0.0009	Report	001	25	10	150.0	0.1501	0.0600	0.9007	0.0375	0.0150	0.2252
	79640	LAG750390	Circle K #2709728	Sanitary	Open parish ditch via Highland Road into Airline Highway ditch then into Bayou Manchac then into the Amite River then into Lake Maurepas	1,000	0.0010	0.0013	5,000	002	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128
104	80044	LAG750321	Auto Spa LLC	Commingled treated Exterior Vehicle Wash and sanitary Wastewater	Local drainage then into Bayou Narcisse	4,950	0.0050	0.0062	Report	001	25	10	150.0	1.0321	0.4128	6.1925	0.2580	0.1032	1.5481

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
105	83310	LAG750614	Sam's Club #6527	Exterior Vehicle Wash Wastewater	On Site store sewer system (RCP Pipes) then into local parish drainage then into Ward Creek then into Lake Pontchartrain	500	0.0005	0.0006	Report	001	25	10	150.0	0.1043	0.0417	0.6255	0.0261	0.0104	0.1564
106	83712	LAG470147	Brian Harris BMW	Commingled washrack wastewater and shop floor washwater	Unnamed ditch then to Claycut Bayou then to the Amite River	163	0.0002	0.0002		001	25	10	150.0	0.0340	0.0136	0.2039	0.0085	0.0034	0.0510
107	84679	LAG750579	Circle K #2709716	Exterior Vehicle Wash Wastewater	Effluent pipe then into drainage ditch then into Clay Cut Bayou then into the Amite River	690	0.0007	0.0009	Report	001	25	10	150.0	0.1439	0.0575	0.8632	0.0360	0.0144	0.2158
108	85011	LAG480200	Shaw Constructors Inc - Equipment Yard	Truck wash rack washwater	Unnamed ditch to Bluff Swamp to Bayou Manchac	440	0.0004	0.0006		001	25	10	150.0	0.0917	0.0367	0.5504	0.0229	0.0092	0.1376
	85011	LAG480200	Shaw Constructors Inc - Equipment Yard	Treated Sanitary Wastewater	Unnamed ditch to Bluff Swamp to Bayou Manchac	210	0.0002	0.0003	5,000	002	25	10	150.0	0.0438	0.0175	0.2627	0.0109	0.0044	0.0657
	85011	LAG480200	Shaw Constructors Inc - Equipment Yard	Treated Sanitary Wastewater	Unnamed ditch to Bluff Swamp to Bayou Manchac	360	0.0004	0.0005		003	25	10	150.0	0.0751	0.0300	0.4504	0.0188	0.0075	0.1126
	85011	LAG480200	Shaw Constructors Inc - Equipment Yard	Treated Sanitary Wastewater	Unnamed ditch to Bluff Swamp to Bayou Manchac	750	0.0008	0.0009		004	25	10	150.0	0.1564	0.0626	0.9383	0.0391	0.0156	0.2346
	85011	LAG480200	Shaw Constructors Inc - Equipment Yard	Treated Sanitary Wastewater	Unnamed ditch to Bluff Swamp to Bayou	3,000	0.0030	0.0038		005	25	10	150.0	0.6255	0.2502	3.7530	0.1564	0.0626	0.9383

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
					Manchac														
	85011	LAG480200	Shaw Constructors Inc - Equipment Yard	Treated Sanitary Wastewater	Unnamed ditch to Bluff Swamp to Bayou Manchac	150	0.0002	0.0002		006	25	10	150.0	0.0313	0.0125	0.1877	0.0078	0.0031	0.0469
	85011	LAG480200	Shaw Constructors Inc - Equipment Yard	Treated Sanitary Wastewater	Unnamed ditch to Bluff Swamp to Bayou Manchac	250	0.0003	0.0003		007	25	10	150.0	0.0521	0.0209	0.3128	0.0130	0.0052	0.0782
109	85249	LA0109053	Dixie Landin' LLC	Treated sanitary wastewater, food service wastewater, non-contact condensate from air conditioners, pool overflow and draining, pool filter backwash, maintenance wastewater, and stormwater runoff	drainage ditch to Ward's Creek	35,000	0.0350	0.0438		001	25	10	150.0	7.2975	2.9190	43.7850	1.8244	0.7298	10.9463
	85249	LA0109053	Dixie Landin' LLC	Treated sanitary wastewater	drainage ditch to Ward's Creek	35,000	0.0350	0.0438		001	25	10	150.0	7.2975	2.9190	43.7850	1.8244	0.7298	10.9463
	85249	LA0109053	Dixie Landin' LLC	backwash filters, pool filter backwash, maintenance wastewater, pool overflow and draining, and stormwater runoff	drainage ditch to Ward's Creek	167,000	0.1670	0.2088		002	25	10	150.0	34.8195	13.9278	208.9170	8.7049	3.4820	52.2293

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
110	85249	LA0109053	Dixie Landin' LLC	backwash filters, pool filter backwash, maintenance wastewater, pool overflow and draining, and stormwater runoff	drainage ditch to Ward's Creek	167,000	0.1670	0.2088		003	25	10	150.0	34.8195	13.9278	208.9170	8.7049	3.4820	52.2293
111	85526	LAG531084	McBR Management Co - McDonald's	Sanitary	local drainage to Bluff Swamp to Bayou Manchac	3,800	0.0038	0.0048	5,000	001	25	10	150.0	0.7923	0.3169	4.7538	0.1981	0.0792	1.1885
112	85763	LAG750363	ISC Properties LLC	commingled treated Exterior Vehicle Wash and sanitary Wastewater	Unnamed diitch then to Bayou Manchac	6,000	0.0060	0.0075	Report	001	25	10	150.0	1.2510	0.5004	7.5060	0.3128	0.1251	1.8765
	85763	LAG750363	ISC Properties LLC	Sanitary Wastewater	Unnamed diitch then to Bayou Manchac	1,300	0.0013	0.0016	Report	002	25	10	150.0	0.2711	0.1084	1.6263	0.0678	0.0271	0.4066
113	86164	LAG750577	Circle K #2709722	Exterior Vehicle Wash Wastewater	Efffluent Pipe then into drainage ditch then into Bayou Fountain	720	0.0007	0.0009	Report	001	25	10	150.0	0.1501	0.0600	0.9007	0.0375	0.0150	0.2252
114	86559	LAG531113	Dynasty Restaurant LLC	Sanitary	ditch along Airline Hwy to Bluff Swamp to Bayou Manchac	4,200	0.0042	0.0053	5,000	001	25	10	150.0	0.8757	0.3503	5.2542	0.2189	0.0876	1.3136
115	86631	LAG531911	Bethany World Prayer Center	Sanitary	unnamed ditch to Ward's Creek Diversion Canal to Bayou Manchac	1,200	0.0012	0.0015	5,000	001	25	10	150.0	0.2502	0.1001	1.5012	0.0626	0.0250	0.3753

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
116	86645	LAG570271	Ascension Wastewater Treatment, Inc - Jefferson Crossing Subdivision STP	Sanitary	local drainage to Muddy Creek to Bayou Manchac	72,000	0.0720	0.0900	100,000	001	25	10	150.0	15.0120	6.0048	90.0720	3.7530	1.5012	22.5180
117	86783	LAG750342	Extreme Clean Car Wash - Lee Dr LLC	Exterior Vehicle Wash Wastewater	Bayou Duplantier	1,916	0.0019	0.0024	Report	001	25	10	150.0	0.3995	0.1598	2.3969	0.0999	0.0399	0.5992
118	86995	LAG570279	Ascension Wastewater Treatment, Inc - Bluff Oaks Plantation Subdivision STP	Sanitary	Bluff Swamp, Bayou Manchac	26,000	0.0260	0.0325	100,000	001	25	10	150.0	5.4210	2.1684	32.5260	1.3553	0.5421	8.1315
119	87066	LAG531134	Giovonni Mucciacciaro - GE Railroad Property	Sanitary	parish ditch to Diversion Canal to Bayou Manchac	480	0.0005	0.0006	5,000	001	25	10	150.0	0.1001	0.0400	0.6005	0.0250	0.0100	0.1501
120	87100	LAG531652	Barringer Foreman Technology Park LLC	Sanitary	unnamed ditch to Ward's Creek to Bayou Manchac	2,000	0.0020	0.0025	5,000	001	25	10	150.0	0.4170	0.1668	2.5020	0.1043	0.0417	0.6255
121	87126	LAG750350	Benny's Car Wash LLC - Perkins Express	Exterior Vehicle Wash Wastewater	Local drainage then to Dawson Creek	22,251	0.0223	0.0278		001	25	10	150.0	4.6393	1.8557	27.8360	1.1598	0.4639	6.9590
122	87676	LAG470089	All Star Automotive Group - All Star Ford Lincoln - Mercury	Sanitary and vehicle washwater	Bayou Manchac	288	0.0003	0.0004		001	25	10	150.0	0.0600	0.0240	0.3603	0.0150	0.0060	0.0901
123	87818	LAG532233	Donna L Kleinpeter DVM	Sanitary	Via effluent lift station through 2 inch effluent forced main pipe approximately 200 feet then into Diversion Canal	1,000	0.0010	0.0013	2,500	001	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128

											TMDL Permit Limits (mg/L)			WLA (lbs/day)			MOS (lbs/day)		
Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
	87818	LAG532233	Donna L Kleinpeter DVM	Sanitary	Via Pipe into Ward's Creek	1,000	0.0010	0.0013	2,500	002	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128
	87818	LAG532233	Donna L Kleinpeter DVM	Sanitary	Via Pipe into Ward's Creek	500	0.0005	0.0006	2,500	003	25	10	150.0	0.1043	0.0417	0.6255	0.0261	0.0104	0.1564
124	88249	LAG531172	American Alloy Steel Inc	Sanitary	Bayou Braud into Spanish Lake	160	0.0002	0.0002	2,500	001	25	10	150.0	0.0334	0.0133	0.2002	0.0083	0.0033	0.0500
125	90164	LAG570217	Dutch Town High School	Sanitary	Johnson Bayou to Jim Bayou to Bluff Swamp	31,600	0.0316	0.0395	100,000	001	25	10	150.0	6.5886	2.6354	39.5316	1.6472	0.6589	9.8829
126	90596	LAG541264	Ascension Wastewater Treatment, Inc - The Bluffs Subdivision STP	Treated Sanitary Wastewater	Unnamed ditch to Bluff Swamp to Bayou Manchac	24,000	0.0240	0.0300	25,000	001	25	10	150.0	5.0040	2.0016	30.0240	1.2510	0.5004	7.5060
127	92989	LA0115771	St Gabriel City of - Carville Wastewater Treatment Facility	Sanitary	Community Canal to Bayou Braud to Bayou Manchac	150,000	0.1500	0.1875	150,000	001	25	10	150.0	31.2750	12.5100	187.6500	7.8188	3.1275	46.9125
128	93789	LAG570291	Ascension Wastewater Treatment, Inc - Le Chenier Subdivision STP	Sanitary	Muddy Creek to Bayou Manchac	60,000	0.0600	0.0750	100,000	001	25	10	150.0	12.5100	5.0040	75.0600	3.1275	1.2510	18.7650
129	93814	LAG570278	Ascension Wastewater Treatment, Inc - Cobblestone Parc Subdivision STP	Sanitary	unnamed ditch to Johnson Bayou	50,000	0.0500	0.0625	100,000	001	25	10	150.0	10.4250	4.1700	62.5500	2.6063	1.0425	15.6375
130	93821	LAG570272	Ascension Wastewater Treatment, Inc - Lakes at Ascension Subdivision STP	Sanitary	local drainage to Johnson Bayou	50,000	0.0500	0.0625	100,000	001	25	10	150.0	10.4250	4.1700	62.5500	2.6063	1.0425	15.6375
131	93823	LA0124753	Ascension Wastewater Treatment, Inc - Meadow Ridge Subdivision STP	Sanitary	Muddy Creek to Bayou Manchac	41,200	0.0412	0.0515	100,000	001	25	10	150.0	8.5902	3.4361	51.5412	2.1476	0.8590	12.8853

											TMDL Permit Limits (mg/L)			WLA (lbs/day)			MOS (lbs/day)		
Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
132	93827	LAG570281	Ascension Wastewater Treatment, Inc - Spanish Oaks Subdivision STP	Sanitary	Bluff Swamp, Bayou Manchac	32,000	0.0320	0.0400	100,000	001	25	10	150.0	6.6720	2.6688	40.0320	1.6680	0.6672	10.0080
133	93828	LAG570300	Ascension Wastewater Treatment, Inc - Twelve Oaks Subdivision STP	Sanitary	Bayou Manchac	60,000	0.0600	0.0750	100,000	001	25	10	150.0	12.5100	5.0040	75.0600	3.1275	1.2510	18.7650
134	93873	LAG541262	Ascension Wastewater Treatment, Inc - Village at Willow Lake Subdivision STP	Sanitary	unnamed ditch to Muddy Creek to Bayou Manchac	24,000	0.0240	0.0300	25,000	001	25	10	150.0	5.0040	2.0016	30.0240	1.2510	0.5004	7.5060
135	93884	LAG570302	Ascension Wastewater Treatment, Inc - Manchac Harbor Subdivision STP - 1st & 2nd Filings	Sanitary	Muddy Creek to Bayou Manchac	98,000	0.0980	0.1225	100,000	001	25	10	150.0	20.4330	8.1732	122.5980	5.1083	2.0433	30.6495
136	93885	LA0124761	Ascension Wastewater Treatment, Inc - Manchac Place Subdivision STP	Sanitary	Unnamed ditch to Bluff Swamp to Bayou Manchac	50,000	0.0500	0.0625	100,000	001	25	10	150.0	10.4250	4.1700	62.5500	2.6063	1.0425	15.6375
137	93886	LAG570274	Ascension Wastewater Treatment, Inc - Fountain Hill Subdivision STP	Sanitary	local drainage to Bluff Swamp to Bayou Manchac	72,000	0.0720	0.0900	100,000	001	25	10	150.0	15.0120	6.0048	90.0720	3.7530	1.5012	22.5180
138	94155	LAG750400	College Town Car Wash	Exterior Vehicle Wash Wastewater	Bayou Fountain	44	0.0000	0.0001		001	25	10	150.0	0.0092	0.0037	0.0550	0.0023	0.0009	0.0138
139	94424	LAG750397	Lambert & Miles LLC - Burbank Car Wash	Exterior Vehicle Wash Wastewater	Local drainage then to Bayou Fountain	111	0.0001	0.0001		001	25	10	150.0	0.0231	0.0093	0.1389	0.0058	0.0023	0.0347
140	97865	LAG541211	Prairieville Middle School	Sanitary	local drainage to Muddy Creek to Bayou Manchac	12,580	0.0126	0.0157	25,000	001	25	10	150.0	2.6229	1.0492	15.7376	0.6557	0.2623	3.9344

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
141	98734	LAG541133	SJK & T Enterprises LLC - Lynch's Mobile Home Park	Sanitary	local drainage to Muddy Creek to Bayou Manchac	19,500	0.0195	0.0244	25,000	001	25	10	150.0	4.0658	1.6263	24.3945	1.0164	0.4066	6.0986
142	100324	LA0117731	Ascension Wastewater Treatment, Inc - Cloverhill Subdivision STP	Sanitary	local drainage to Ward's Creek Diversion Canal	36,000	0.0360	0.0450	100,000	001	25	10	150.0	7.5060	3.0024	45.0360	1.8765	0.7506	11.2590
143	103849	LAG570237	Total Environmental Solutions Inc - Lakes at Dutchtown Subdivision	Sanitary	unnamed ditch to Johnson Bayou	45,600	0.0456	0.0570	100,000	001	25	10	150.0	9.5076	3.8030	57.0456	2.3769	0.9508	14.2614
144	103925	LAG750855	AAA Rent All	Exterior Vehicle Wash Wastewater	Pipe, ditch, Dawson Creek	250	0.0003	0.0003		001	25	10	150.0	0.0521	0.0209	0.3128	0.0130	0.0052	0.0782
145	104416	LAG531406	TNT Performance & Repair LLC - Diesel Performance Facility	Sanitary	Unnamed ditch to Bayou Manchac	140	0.0001	0.0002	2,500	001	25	10	150.0	0.0292	0.0117	0.1751	0.0073	0.0029	0.0438
146	106648	LAG541224	Prairieville Plaza Shopping Center	Sanitary	Roadside ditch, Welsh Gully	10,700	0.0107	0.0134	25,000	001	25	10	150.0	2.2310	0.8924	13.3857	0.5577	0.2231	3.3464
147	108610	LAG541143	Commercial Sewage Treatment Plant - Siegen Green Shopping Center	Sanitary	local drainage to Ward's Creek to Bayou Manchac	5,220	0.0052	0.0065	25,000	001	25	10	150.0	1.0884	0.4353	6.5302	0.2721	0.1088	1.6326
148	116991	LAG541139	Cyrus Bonakchi Retail Complex WWTS	Sanitary	roadside ditch to Ward's Creek to Ward's Creek Diversion Canal to Bayou Manchac	16,000	0.0160	0.0200	25,000	001	25	10	150.0	3.3360	1.3344	20.0160	0.8340	0.3336	5.0040
149	117898	LAG531533	Chase Highland Branch	Sanitary	unnamed ditch to Bayou Fountain to Bayou Manchac	500	0.0005	0.0006	2,500	001	25	10	150.0	0.1043	0.0417	0.6255	0.0261	0.0104	0.1564

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
150	117999	LAG541362	Parks Apartments II - WWTP	Sanitary	unnamed ditch to Dawson Creek to Ward Creek to Ward Creek Diversion to Bayou Manchac	6,400	0.0064	0.0080	25,000	001	25	10	150.0	1.3344	0.5338	8.0064	0.3336	0.1334	2.0016
151	118197	LAG750847	On The Run - Exxon RAS #70132	Sanitary	Unnamed ditch to Bayou Manchac	4,080	0.0041	0.0051	5,000	002	25	10	150.0	0.8507	0.3403	5.1041	0.2127	0.0851	1.2760
152	118197	LAG750847	On The Run - Exxon RAS #70132	Exterior Vehicle Wash Wastewater	Unnamed ditch to Bayou Manchac	1,609	0.0016	0.0020	variable	001	25	10	150.0	0.3355	0.1342	2.0129	0.0839	0.0335	0.5032
153	118273	LAG541269	Ascension Wastewater Treatment Inc - Crestview Estates Subdivision STP	Sanitary	local drainage to Jim Bayou	18,400	0.0184	0.0230	25,000	001	25	10	150.0	3.8364	1.5346	23.0184	0.9591	0.3836	5.7546
154	118381	LAG570308	Ascension Wastewater Treatment, Inc - Dutchtown Villas Subdivision STP	Sanitary	local drainage to Johnson Bayou	30,000	0.0300	0.0375	100,000	001	25	10	150.0	6.2550	2.5020	37.5300	1.5638	0.6255	9.3825
155	119110	LAG531557	St George Fire Protection District #2 - Highlandia Drive Station #68	Sanitary	Bayou Manchac	175	0.0002	0.0002		001	25	10	150.0	0.0365	0.0146	0.2189	0.0091	0.0036	0.0547
156	119486	LAG531797	Ascension Wastewater Treatment Inc - Ultima Plaza	Sanitary	Welsh Gully to Bayou Manchac	4,000	0.0040	0.0050	5,000	001	25	10	150.0	0.8340	0.3336	5.0040	0.2085	0.0834	1.2510
157	119612	LAG532019	Kinder Garden LLC	Sanitary	local drainage to Muddy Creek to Bayou Manchac	2,040	0.0020	0.0026	5,000	001	25	10	150.0	0.4253	0.1701	2.5520	0.1063	0.0425	0.6380
158	120032	LAG531805	Cypress Heights Academy	Sanitary	local drainage to Wards Creek to Bayou Manchac	2,790	0.0028	0.0035	5000	001	25	10	150.0	0.5817	0.2327	3.4903	0.1454	0.0582	0.8726

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159	120065	LAG541320	Achord's Bluff Road Trailer Park	Sanitary	Unnamed ditch to Bluff Swamp to Bayou Manchac	13,500	0.0135	0.0169	25,000	001	25	10	150.0	2.8148	1.1259	16.8885	0.7037	0.2815	4.2221
160	120263	LAG541321	Oak Grove Primary School	Sanitary	unnamed ditch to unnamed canal to Bayou Manchac	14,255	0.0143	0.0178	25,000	001	25	10	150.0	2.9722	1.1889	17.8330	0.7430	0.2972	4.4583
161	120326	LAG470219	Infinity of Baton Rouge	Treated washrack wastewater	Ward Creek	350	0.0004	0.0004		001	25	10	150.0	0.0730	0.0292	0.4379	0.0182	0.0073	0.1095
162	121616	LAG531813	Domino's Pizza	Sanitary	Unnamed ditch then to Welsh Gully	800	0.0008	0.0010	5,000	001	25	10	150.0	0.1668	0.0667	1.0008	0.0417	0.0167	0.2502
163	121645	LAG531650	Dutchtown Baptist Church - WWTP	Sanitary	Unnamed ditch, then Jim Bayou, then Johnson Bayou	2,000	0.0020	0.0025	2,500	001	25	10	150.0	0.4170	0.1668	2.5020	0.1043	0.0417	0.6255
164	121672	LAG541220	Frank's Restaurant & Banquet Hall	Sanitary	Local drainage then to Bayou Manchac	10,355	0.0104	0.0129	25,000	001	25	10	150.0	2.1590	0.8636	12.9541	0.5398	0.2159	3.2385
165	124896	LAG541266	Ascension Wastewater Treatment, Inc - Bluff Meadows Subdivision	Sanitary	Parish drainage then into Jim Bayou	8,800	0.0088	0.0110	25,000	001	25	10	150.0	1.8348	0.7339	11.0088	0.4587	0.1835	2.7522
166	124899	LAG531704	LA Towing	Sanitary	Local drainage, Bayou Paul, Bayou Braud, Spanish Lake	40	0.0000	0.0001	2,500	001	25	10	150.0	0.0083	0.0033	0.0500	0.0021	0.0008	0.0125
167	124995	LA0123404	K-TEC LLC	Water jet abrasive wastewater, hydrostatic water pressure test system wastewater, and sanitary wastewater from machine shop	Pipe to Welsh Gully, to Bayou Manchac, then to Amite River	1,650	0.0017	0.0021		001	25	10	150.0	0.3440	0.1376	2.0642	0.0860	0.0344	0.5160

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168	125092	LAG532510	US Postal Service - Commerce Park Post Office	Sanitary	unnamed ditch to Dawson Creek to Ward Creek to Ward Creek Diversion to Bayou Manchac	2,500	0.0025	0.0031	5,000	001	25	10	150.0	0.5213	0.2085	3.1275	0.1303	0.0521	0.7819
169	125403	LAG541268	Ascension Wastewater Treatment Inc - Arlington Plantation Condos	Sanitary	Parish drainage then into Muddy Creek	19,200	0.0192	0.0240	25,000	001	25	10	150.0	4.0032	1.6013	24.0192	1.0008	0.4003	6.0048
170	125432	LAG570333	Ascension Wastewater Treatment Inc - Legacy Hills Subdivision STP	Sanitary	Unnamed ditch, then to Johnson Bayou, then to Jim Bayou	26,000	0.0260	0.0325	100,000	001	25	10	150.0	5.4210	2.1684	32.5260	1.3553	0.5421	8.1315
171	127024	LAG541489	Ascension Wastewater Treatment Inc - Oak Grove Courtyard	Sanitary	local drainage to Bluff Swamp to Bayou Manchac	6,800	0.0068	0.0085	25,000	001	25	10	150.0	1.4178	0.5671	8.5068	0.3545	0.1418	2.1267
172	127036	LAG541461	Ascension Wastewater Treatment, Inc - Manchac Harbor Subdivision - 3rd & 4th Filings	Sanitary	Muddy Creek to Bayou Manchac	23,600	0.0236	0.0295	25,000	001	25	10	150.0	4.9206	1.9682	29.5236	1.2302	0.4921	7.3809
173	127204	LAG541297	R&D Property Development LLC - Highlandia Office/Retail Center	Sanitary	Unnamed ditch, then to highway ditch, then to Bayou Manchac	20,000	0.0200	0.0250	25,000	001	25	10	150.0	4.1700	1.6680	25.0200	1.0425	0.4170	6.2550
174	127459	LAG541328	Greg Martrain Strip Shopping Mall	Sanitary	Highway 190 roadside ditch then to Bayou Manchac	6,120	0.0061	0.0077	25,000	001	25	10	150.0	1.2760	0.5104	7.6561	0.3190	0.1276	1.9140
175	129104	LAG531991	Gulf Coast Event Services	Sanitary	Local drainage, to roadside ditch, to Johnson Bayou	500	0.0005	0.0006	2,500	001	25	10	150.0	0.1043	0.0417	0.6255	0.0261	0.0104	0.1564

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
176	132705	LAG570416	Ascension Wastewater Treatment Inc - Wrenwood Subdivision	Sanitary	ditch to Muddy Creek to Bayou Manchac	26,800	0.0268	0.0335	100,000	001	25	10	150.0	5.5878	2.2351	33.5268	1.3970	0.5588	8.3817
177	132934	LAG541468	Ascension Wastewater Treatment Inc - Perkins Condos	Sanitary	Local drainage to Bayou Manchac	19,200	0.0192	0.0240	25,000	001	25	10	150.0	4.0032	1.6013	24.0192	1.0008	0.4003	6.0048
178	133058	LAG532323	Garcia Management Group LLC	Sanitary	ditch at Swamp Road to Bayou Manchac	1,000	0.0010	0.0013	5,000	001	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128
179	133959	LAG532007	Prairieville Investment LLC - Ascension Marketplace	Sanitary	Unnamed ditch, Welsh Gully, Bayou Manchac	400	0.0004	0.0005	2,500	001	25	10	150.0	0.0834	0.0334	0.5004	0.0209	0.0083	0.1251
180	134379	LAG541547	LA Lagniappe Restaurant Inc - LA Lagniappe Restaurant	Sanitary	Parish ditch, Ward Creek	7,335	0.0073	0.0092	25,000	001	25	10	150.0	1.5293	0.6117	9.1761	0.3823	0.1529	2.2940
181	135121	LAG570362	Rapps Enterprises LLC - Home Depot Out Parcels/Restaurant & Retail	Sanitary	Storm drain, local drainage, Ward Creek	33,012	0.0330	0.0413	100,000	001	25	10	150.0	6.8830	2.7532	41.2980	1.7208	0.6883	10.3245
182	136290	LAG531998	CVS Pharmacy	Sanitary	Bluff Swamp, Bayou Manchac	160	0.0002	0.0002	2,500	001	25	10	150.0	0.0334	0.0133	0.2002	0.0083	0.0033	0.0500
183	136481	LAG532107	Airwal Properties LLC - Prairieville Retail Center	Sanitary	Pipe to Welsh Gully	4,895	0.0049	0.0061	5,000	001	25	10	150.0	1.0206	0.4082	6.1236	0.2552	0.1021	1.5309
184	137507	LAG570415	Ascension Wastewater Treatment, Inc - Moss Point Subdivision	Sanitary	ditch to Johnson Bayou to Jim Bayou to Bluff Swamp to Bayou Manchac	39,600	0.0396	0.0495	100,000	001	25	10	150.0	8.2566	3.3026	49.5396	2.0642	0.8257	12.3849
185	137952	LAG532063	Iberia Bank	Sanitary	Unnamed ditch to Welsh Gully	200	0.0002	0.0003	2,500	001	25	10	150.0	0.0417	0.0167	0.2502	0.0104	0.0042	0.0626

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Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
186	138856	LAG33A602	St Gabriel Dehy & NGL Production Facility	Dewatering effluent from reserve pits which have not been used since 12/15/96.	Braud Bayou	0	0.0000	0.0000		001	25	10	150.0	0	0	0	0	0	0
	138856	LAG33A602	St Gabriel Dehy & NGL Production Facility	Treated sanitary wastewater	Braud Bayou	500	0.0005	0.0006		04A	25	10	150.0	0.1043	0.0417	0.6255	0.0261	0.0104	0.1564
	138856	LAG33A602	St Gabriel Dehy & NGL Production Facility	Treated sanitary wastewater	Braud Bayou	500	0.0005	0.0006		04B	25	10	150.0	0.1043	0.0417	0.6255	0.0261	0.0104	0.1564
	138856	LAG33A602	St Gabriel Dehy & NGL Production Facility	Deck drainage	Braud Bayou	870	0.0009	0.0011		002	25	10	150.0	0.1814	0.0726	1.0884	0.0453	0.0181	0.2721
	138856	LAG33A602	St Gabriel Dehy & NGL Production Facility	Discharge of formation test fluids	Braud Bayou	1,000	0.0010	0.0013		003	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128
	138856	LAG33A602	St Gabriel Dehy & NGL Production Facility	Discharge of domestic waste water	Braud Bayou	500	0.0005	0.0006		005	25	10	150.0	0.1043	0.0417	0.6255	0.0261	0.0104	0.1564
	138856	LAG33A602	St Gabriel Dehy & NGL Production Facility	Discharge of hydrostatic test water	Braud Bayou	1,000	0.0010	0.0013		006	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128
	138856	LAG33A602	St Gabriel Dehy & NGL Production Facility	Miscellaneous Discharges-boiler blowdown, non-contact cooling water, bilge water, uncontaminated ballast	Braud Bayou	1,000	0.0010	0.0013		007	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128
187	139566	LAG541469	Ascension Wastewater Treatment Inc - Quail Hollow Subdivision STP	Sanitary	Muddy Creek	13,200	0.0132	0.0165	25,000	001	25	10	150.0	2.7522	1.1009	16.5132	0.6881	0.2752	4.1283

											TMDL Permit Limits (mg/L)			WLA (lbs/day)			MOS (lbs/day)		
Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
188	143342	LAG541533	Ascension Wastewater Treatment Inc - Retreat at Ascension Subdivision	Sanitary	Bluff Swamp, Bayou Manchac	8,000	0.0080	0.0100	25,000	001	25	10	150.0	1.6680	0.6672	10.0080	0.4170	0.1668	2.5020
189	143343	LAG570400	Ascension Wastewater Treatment Inc - Oaks on the Bluff Subdivision WWTP	Sanitary	Parish Drainage to Jim Bayou	56,400	0.0564	0.0705	100,000	001	25	10	150.0	11.7594	4.7038	70.5564	2.9399	1.1759	17.6391
190	143945	LAG532143	The Business Park at Oak Grove Condominium Association - The Business Park at Oak Grove	Sanitary	Parish Drainage, Muddy Creek	300	0.0003	0.0004	2,500	001	25	10	150.0	0.0626	0.0250	0.3753	0.0156	0.0063	0.0938
191	144464	LAG541519	Baudry Property Development LLC - Oak Grove Village & Professional Park	Sanitary	Roadside ditch, Welsh Gully	6,960	0.0070	0.0087	25,000	001	25	10	150.0	1.4512	0.5805	8.7070	0.3628	0.1451	2.1767
192	146248	LAG541586	Ascension Wastewater Treatment Inc - Bluff Heritage (residential subdivision)	Sanitary	Jim Bayou to Bluff Swamp to Spanish Lake to Alligator Bayou to Bayou Manchac	14,800	0.0148	0.0185	25,000	001	25	10	150.0	3.0858	1.2343	18.5148	0.7715	0.3086	4.6287
193	147413	LAG532678	Ascension Wastewater Treatment Inc - Taco Bell	Sanitary	unnamed ditch to Jim Bayou	2,400	0.0024	0.0030	5,000	001	25	10	150.0	0.5004	0.2002	3.0024	0.1251	0.0500	0.7506
194	148008	LAG532198	Ascension Wastewater Treatment Inc - Dutchtown Point Shopping Center WWTP	Sanitary	Bluff Swamp, Bayou Manchac	1,000	0.0010	0.0013	2,500	001	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128
195	148996	LAG750597	LA Grove Fuel Lube & Carwash	Exterior Vehicle Wash Wastewater	Unnamed ditch to Bayou Manchac	250	0.0003	0.0003		001	25	10	150.0	0.0521	0.0209	0.3128	0.0130	0.0052	0.0782

											TMDL Permit Limits (mg/L)			WLA (lbs/day)			MOS (lbs/day)		
Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
	148996	LAG750597	LA Grove Fuel Lube & Carwash	Treated Sanitary Wastewater	Unnamed ditch to Bayou Manchac	250	0.0002	0.0003	5,000	002	25	10	150.0	0.0521	0.0208	0.3125	0.0130	0.0052	0.0781
196	149454	LAG532230	The Learning Tree at Oak Grove LLC - Learning Tree Daycare	Sanitary	Hwy 73 ditch to Welsh Gully	2,010	0.0020	0.0025	2,500	001	25	10	150.0	0.4191	0.1676	2.5145	0.1048	0.0419	0.6286
197	151677	LA0123684	Ascension Wastewater Treatment Inc - Manchac Harbor Crossing	Sanitary	ditch to Cotton Bayou to Bayou Manchac	29,200	0.0292	0.0365	100,000	001	25	10	150.0	6.0882	2.4353	36.5292	1.5221	0.6088	9.1323
198	151737	LAG750613	Enterprise Rent a Car	Exterior Vehicle Wash Wastewater	Bayou Manchac	400	0.0004	0.0005		001	25	10	150.0	0.0834	0.0334	0.5004	0.0209	0.0083	0.1251
199	151794	LAG750612	Benny's Car Wash - Essen Full Service	Exterior Vehicle Wash Wastewater	Wards Creek	28,126	0.0281	0.0352		001	25	10	150.0	5.8643	2.3457	35.1856	1.4661	0.5864	8.7964
200	151923	LAG532296	Legacy Oaks LLC - The Highlands @ New Richmond	Sanitary	Bayou Fountain	440	0.0004	0.0006	2,500	001	25	10	150.0	0.0917	0.0367	0.5504	0.0229	0.0092	0.1376
201	151924	LAG532294	Legacy Oaks LLC - Legacy Oaks	Sanitary	Bayou Fountain	380	0.0004	0.0005	2,500	001	25	10	150.0	0.0792	0.0317	0.4754	0.0198	0.0079	0.1188
202	152058	LAG570431	Ascension Wastewater Treatment, Inc - Summerlynn Place	Sanitary	unnamed slough to Muddy Creek	22,800	0.0228	0.0285	100,000	001	25	10	150.0	4.7538	1.9015	28.5228	1.1885	0.4754	7.1307
203	152516	LAG470247	Goodyear Regional Dist Office - Goodyear Tire & Rubber Co	Exterior Vehicle Wash Wastewater	Wards Creek to Bayou Manchac	500	0.0005	0.0006		002	25	10	150.0	0.1043	0.0417	0.6255	0.0261	0.0104	0.1564
	152516	LAG470247	Goodyear Regional Dist Office - Goodyear Tire & Rubber Co	Sanitary		5,000	0.0050	0.0063		005	25	10	150.0	1.0425	0.4170	6.2550	0.2606	0.1043	1.5638
204	153571	LAG570425	Ascension Wastewater Treatment Inc - Maplewood Estates Subdivision	Sanitary	ditch to sloughtoWelsh Gully to Bayou Manchac	44,800	0.0448	0.0560	100,000	001	25	10	150.0	9.3408	3.7363	56.0448	2.3352	0.9341	14.0112

											TMDL Permit Limits (mg/L)			WLA (lbs/day)			MOS (lbs/day)		
Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
205	153573	LAG570424	Ascension Wastewater Treatment, Inc - Montrachet Subdivision	Sanitary	ditch to slough to Bayou Manchac	51,200	0.0512	0.0640	100,000	001	25	10	150.0	10.6752	4.2701	64.0512	2.6688	1.0675	16.0128
206	154124	LAG570437	Ascension Wastewater Treatment Inc - Landing At Mallard Lakes - WWTP	Sanitary	ditch to Bayou Manchac	9,600	0.0096	0.0120	100,000	001	25	10	150.0	2.0016	0.8006	12.0096	0.5004	0.2002	3.0024
207	154183	LAG541631	Ascension Wastewater Treatment Inc - Dutchtown Gardens Subdivision	Sanitary	ditch to Johnson Bayou to Jim Bayou to Bluff Swamp to Bayou Manchac	18,800	0.0188	0.0235	100,000	001	25	10	150.0	3.9198	1.5679	23.5188	0.9800	0.3920	5.8797
208	154213	LAG750631	Oak Grove Express Lube LLC - Oak Grove Carwash	Exterior Vehicle Wash Wastewater	Highway 42 storm drain to unnamed branch then to Muddy Creek then to Bayou Manchac then to the Amite River to Lake Maurepas	2,880	0.0029	0.0036	Report	001	25	10	150.0	0.6005	0.2402	3.6029	0.1501	0.0600	0.9007
209	154276	LA0123749	Ascension Wastewater Treatment Inc - Commerce Center	Treated Sanitary Wastewater	Bluff Swamp, Bayou Manchac	200,000	0.2000	0.2500	200,000	001	25	10	150.0	41.7000	16.6800	250.2000	10.4250	4.1700	62.5500
210	154703	LA0124940	Ascension Wastewater Treatment Inc - The Lakes At Jamestown - WWTP	Treated Sanitary Wastewater	ditch to Wards Creek to Bayou Manchac	33,200	0.0332	0.0415	100,000	001	25	10	150.0	6.9222	2.7689	41.5332	1.7306	0.6922	10.3833
211	155461	LAG532584	Louisiana Machinery Co LLC	Sanitary	pond to Bluff Swamp, Bayou Manchac	1,000	0.0010	0.0013	2,500	001	25	10	150.0	0.2085	0.0834	1.2510	0.0521	0.0209	0.3128

											TMDL Permit Limits (mg/L)			WLA (lbs/day)			MOS (lbs/day)		
Entry No.	Agency Interest No.	Permit No.	Facility Name	Effluent Type	Path	Expected Flow (gpd)	Expected Flow (MGD)	TMDL Flow (MGD)	Permit Flow (gpd)	Out-fall	Chlor-ides	Sulf-ates	Total Dissolved Solids	Chlorides (based on criterion of 25 mg/L)	Sulfates (based on criterion of 10 mg/L)	Total Dissolved Solids (based on criterion of 150 mg/L)	Chlorides	Sulfates	Total Dissolved Solids
212	158088	LAG541855	Mo-Dad Utilities LLC - DeGage Condominiums	Sanitary	ditch to Muddy Creek to Bayou Manchac	8,000	0.0080	0.0100	100,000	001	25	10	150.0	1.6680	0.6672	10.0080	0.4170	0.1668	2.5020
												Totals		11,780	4,679	70,184	2,945	1,170	17,546

[a] Note: Due to the uncertainty of loading sources and the variable nature of stormwater, permit limits were not provided for the MS4 permits. The WLAs provided are not intended for use as a targets.

Total Point Source WLA + MOS for chlorides (lbs/day) =	14,725
Total Point Source WLA + MOS for sulfates (lbs/day) =	5,849
Total Point Source WLA + MOS for total dissolved solids (lbs/day)=	87,730

EXECUTIVE SUMMARY

This report presents the results of a watershed-based analysis of Bayou Manchac. The analysis was conducted to establish TMDLs for chlorides, sulfates, and total dissolved solids (TDS) for the Bayou Manchac watershed. Bayou Manchac is located in south Louisiana and this subsegment includes Bayou Fountain, Ward Creek, Ward Creek Diversion Canal, Welsh Gully, Cotton Bayou, Muddy Creek, and several unnamed tributaries. Bayou Manchac (Subsegment 040201) is in the Lake Pontchartrain Basin and its drainage area includes the southern portions of East Baton Rouge Parish and the northern portions of Ascension Parish including Spanish Lake and the surrounding areas. The area is heavily populated and land use is primarily agriculture, grassland, vegetated urban, and wetland forest deciduous. Areas along the mainstem of Bayou Manchac are mostly comprised of wetland deciduous forest.

This report establishes TMDLs, wasteload allocations, load allocations, and margins of safety for chlorides, sulfates, and TDS. In addition, this report discusses likely sources of those pollutant, affects on aquatic life, and the reductions in pollutant loads required to meet the existing criteria. The implementation of this TMDL through wastewater discharge permits and best management practices to control and reduce the loading of chlorides, sulfates, and TDS will be discussed in Section 7.

As shown in Tables 1 – 3, Bayou Manchac, Subsegment 040201, is listed on the Final 2006, Draft 2008, and Draft 2010 Integrated Reports, as well as EPA's Consent Decree.

Potential sources of chlorides include potable water source for the area (groundwater), sanitary STPs that disinfect, and industrial facilities. Potential sources of sulfates include potable water source for the watershed (groundwater), sanitary STPs that dechlorinate, and industrial facilities permitted to discharge sulfate. Potential sources of TDS include those listed above for chlorides and sulfates.

It has been noted that the sewage collection lines in some areas of southern East Baton Rouge Parish have had problems with overflows, leaks, and bypasses. Given that the sourcewater for the watershed typically contains chlorides, sulfates, and TDS, these overflows, leaks, and bypasses are likely pathways for such pollutants to enter the Bayou Manchac watershed. Much of the loading is reaching Bayou Manchac via tributaries. LDEQ recognizes that East Baton Rouge Parish is conducting a series of projects to upgrade the South Plant and its collection system that are intended to address unauthorized discharges from leaks, overflows, and bypasses. These projects are expected to contribute to the overall improved water quality in the Bayou Manchac watershed, possibly contributing to reduced levels of chlorides, sulfates, and TDS. The potential change in loadings brought on by these projects also justify the use of the phased TMDL approach.

The watershed drains areas that are regulated by two MS4 permits. The areas covered by these MS4 permits include many permitted and unpermitted facilities. While LDEQ does assume responsibility for these facilities, partial responsibility belongs to the MS4 permittee to ensure that water draining from the area of coverage does not impact the named waterbody. Other activities utilizing the potable water may also contribute to the MS4 loading. These activities may include the watering of lawns, washing of cars or buildings, and recreational water use. Reductions in the loading presented in this report also apply to MS4 regulated areas.

The impact of stormwater loading on the waterbody under critical conditions is difficult to determine. Extensive monitoring can be monetarily and logistically prohibitive and the loading is variable. Therefore it may be impractical to set MS4 permit limits. In addition, this phased TMDL indicates that there is uncertainty associated with the load contributions of existing sources. LDEQ intends that the MS4 requirements of this TMDL be met through the use of Best Management Practices (BMPs). Appropriate BMP measures shall be incorporated into the MS4 permits to minimize the impacts of stormwater loading on water quality. Such BMP measures should include locating all loading sources, the elimination of illicit wastewater discharges, the regionalization of wastewater treatment, rehabilitating and upgrading sewer collection system lines, a cost-effective monitoring program, and other appropriate activities.

The various data and spreadsheets that were used to develop the TMDL may be found in the appendices. Chloride, sulfate, and TDS data from LDEQ's Ambient Water Quality Network WQN Site 0142 was used in this study. Additional groundwater data was obtained from the Louisiana Department of Health and Hospitals.

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, where appropriate. LDEQ will continue to work with local governments and facilities to ensure that all water quality goals are met while minimizing economic impacts. LDEQ will also continue to monitor the waters to determine whether standards are being attained.

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

The LDEQ is continuing to implement a watershed approach to the surface water quality monitoring. Currently, LDEQ utilizes a four year sampling cycle. Approximately one quarter of the 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.

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1. Definitions/Acronyms/Abbreviations

BAC	Bacterial Criteria
BMP	Best Management Practices
Cl	Chlorides
DO	Dissolved Oxygen
EPA	United States Environmental Protection Agency
LA	Load Allocation (Nonpoint source loads)
LDEQ	Louisiana Department of Environmental Quality
LMRAP	Lower Mississippi River Alluvial Plain
LTP	Louisiana Total Daily Maximum Daily Load Technical Procedures SOP
MS4	Stormwater Discharge From Municipal Separate Storm Sewer System
NPS	Nonpoint Source
NPDES	National Pollutant Discharge Elimination System
POTW	Publically Owned Treatment Works
SO_4	Sulfates
SOP	Standard Operating Procedure
STP	Sewage Treatment Plant
TEMPO	Tools for Environmental Management and Protection Organizations
TDS	Total Dissolved Solids
TMDL	Total Maximum Daily Load = WLA + LA + MOS
USGS	United States Geological Survey
UV	Ultraviolet Radiation
WLA	Wasteload Allocation (Point source loads)
WQN	Water Quality Network
WWTP	Wastewater Treatment Plant

2. Introduction

Bayou Manchac, Subsegment 040201, is listed on the Final 2006, Draft 2008, and Draft 2010 Integrated Reports, in addition to EPA's Consent Decree. The impairments listed in the Integrated Reports and their suspected causes are shown in Tables 1 – 3. Because of the impairments for chlorides, sulfates, and Total Dissolved Solids (TDS), this subsegment requires the development of a total maximum daily loads (TMDLs) for those parameters. This report presents the TMDL development and results.

3. Study Area Description

3.1 General Information

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

This TMDL addresses Bayou Manchac, located in the Lake Pontchartrain Basin between the Mississippi River and the Amite River, south of Baton Rouge, Louisiana. This area is typical of the basin and is primarily comprised of pasture, wetlands, and residential as documented in Table 7 (LADEQ, 1999).

A detailed land cover map of Subsegment 040201 is also included in Appendix E2. Average annual precipitation in the segment, based on the nearest Louisiana Climatic Station, is 60-64 inches based on a 30-year period of record (LSU, 1999). There is a Louisiana average annual precipitation map located in Appendix E3.

3.2 Water Quality Standards

The Water Quality criteria and designated uses for Bayou Manchac Watershed are shown in Table 8. As noted in the table, the chlorides, sulfate, and TDS criteria for Bayou Manchac are 25, 10, and 150 mg/L, respectively. According to Louisiana's water quality regulations (LAC 33:IX.1113.C.2), the numerical criteria for chloride, sulfates, and TDS is based upon the arithmetic mean of existing data from the nearest location plus three standard deviations. These criteria for Bayou Manchac are equivalent to the criteria for many of the neighboring watersheds. However, Blind River, located immediately to the south, has chloride, sulfate, and TDS criteria of 250, 75, and 500 mg/L, respectively.

Figure 1. Map of Study Area

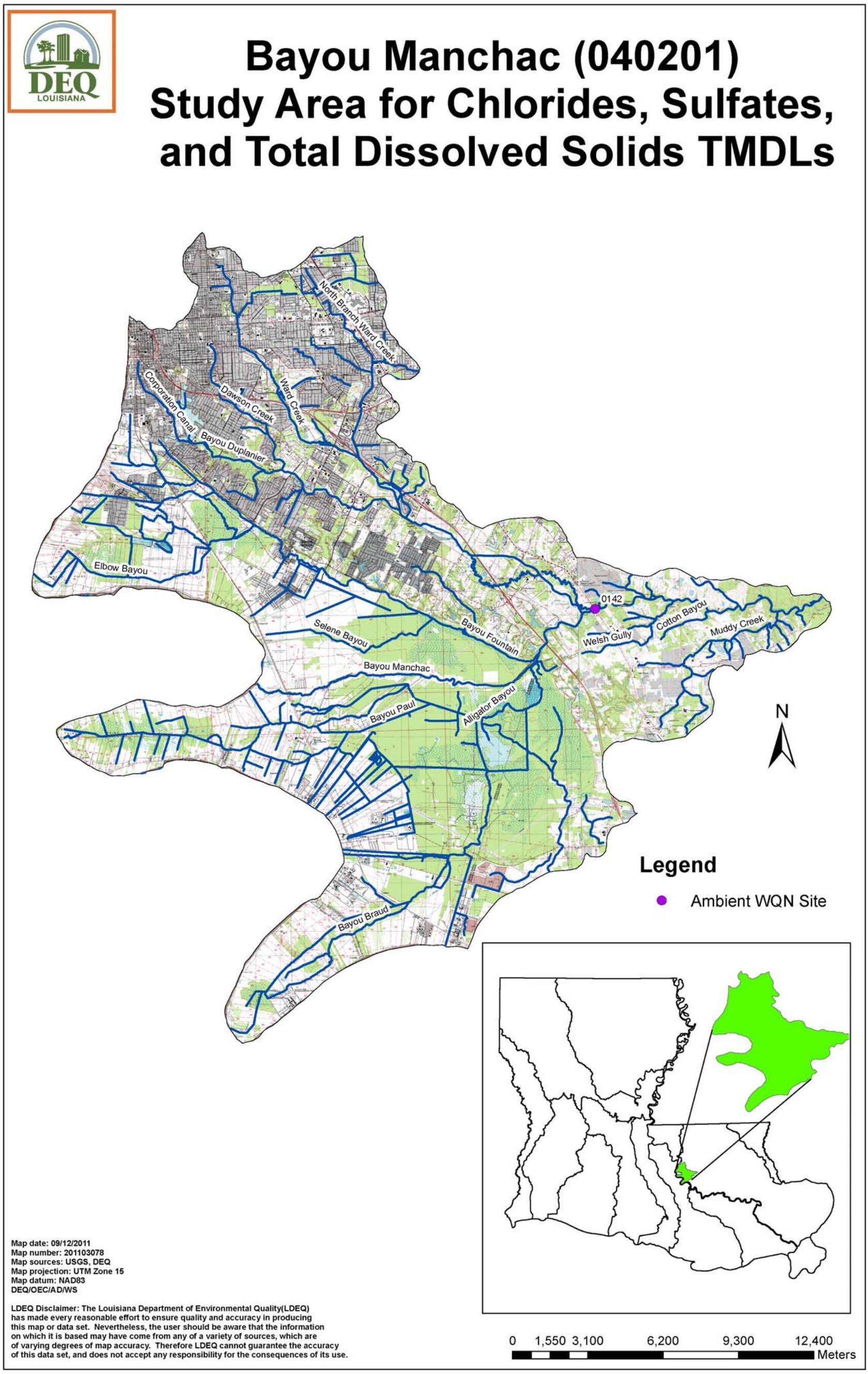

Table 7. Land Uses in Segment 040201

Land Type	Acres 040201	Percent Land use 040201
Agriculture/Cropland/Grassland	32597.70	29.53
Vegetated urban	25850.47	23.42
Wetland Forest Deciduous	23712.37	21.48
Non-Vegetated Urban	8249.95	7.47
Water	4904.69	4.44
Upland Forest Mixed	3295.22	2.99
Upland Forest Deciduous	3240.07	2.94
Wetland S/S Deciduous	2507.94	2.27
Upland Forest Evergreen	2193.48	1.99
Upland S/S Mixed	1876.12	1.70
Fresh Marsh	909.59	0.82
Upland Barren	514.18	0.47
Upland S/S Evergreen	342.27	0.31
Upland S/S Deciduous	164.35	0.15
Wetland Forest Mixed	24.69	0.02
Wetland Barren	7.78	0.01

Table 8. Water Quality Numerical Criteria and Designated Uses

Parameter	Value
Designated Uses	A B C
DO, mg/L	5.0
Cl, mg/L	25
SO_4, mg/L	10
pH	6.0 – 8.5
BAC	1*
Temperature, deg Celsius	32
TDS, mg/L	150

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

*Note 1 – No more than 25% of samples collected on a monthly or near-monthly basis shall exceed a fecal coliform density of 400 colonies/100mL for the period May through October; No more than 25% of samples collected on a monthly or near-monthly basis shall exceed a fecal coliform density of 2,000 colonies/100mL for the period November through April.

3.3 Suspected Sources

3.3.1 Permitted Facilities

Based upon research of LDEQ's TEMPO database and its Electronic Document Management System (EDMS), 257 permitted outfalls at 212 facilities are being provided with wasteload allocations in this TMDL. In addition, wasteload allocations have been provided for 2 MS4 permittees. LDEQ's EDMS indicated that there were 4 industrial facilities that had monitoring or permit limits for chlorides or sulfates at a total of 8 outfalls and 7 facilities that had permit limits for total residual chlorine (TRC). One hundred and eighty-six (186) sanitary outfalls are addressed in this TMDL. Other outfalls addressed in this TMDL include wash water/utility water, hydrostatic test water, and cooling water/cooling tower blowdown. LDEQ estimates that approximately 127 of these facilities are small businesses which will be subject to the permit requirements established in this TMDL report.

LDEQ is updating current information on permitted facilities and locating unpermitted facilities in the Pontchartrain Basin to get them permitted.

3.3.1.1 Municipal Separate Stormwater Sewer Systems (MS4)

Loading from local MS4s may be attributed to leaky potable water distribution systems, sanitary sewer systems, and stormwater sewer systems. Additional loading may come from land clearing and development.

Phase I and II stormwater systems are additional possible point source contributors in the Pontchartrain Basin. Stormwater discharges are generated by runoff from urban land and impervious areas such as paved streets, parking lots, and rooftops during precipitation events. Stormwater discharges from urban areas can contribute chloride, sulfates, and TDS loads. The chlorides typically come from fertilizers. Chlorides, sulfates, and TDS may also come from problematic or leaking drinking water distribution lines or sewer collection lines. These discharges often contain concentrations of pollutants that can eventually enter nearby waterbodies. Most stormwater discharges are considered point sources and require coverage by a National Pollutant Discharge Elimination System (NPDES) permit.

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

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

In Louisiana, there are two ways that an MS4 can be identified as a regulated, small MS4. This category includes all cities within UAs and any small MS4 area outside UAs with a population of at least 10,000 and a population density of at least 1,000 people per square mile (LDEQ 2002). MS4 permittees in the Bayou Manchac watershed include the city of Baton Rouge, Permit # LAS000101 and Ascension Parish, Permit # LAR041034.

The Baton Rouge MS4 permit covers the entire parish, however it can only regulate the urbanized areas (as defined by the 2010 U.S. Census). Ascension Parish has MS4 permit coverage but their permit coverage is limited to the unincorporated areas of Ascension Parish that lie within the Baton Rouge Urbanized Area plus discharges from the Town of Sorrento MS4. Allocations for each MS4 permit were provided by partitioning the nonpoint loading based on the percentage of the subsegment regulated by each MS4 permit. The Baton Rouge MS4 permit regulates approximately 55% of the subsegment, while the Ascension Parish MS4 permit regulates approximately 5.3% of the subsegment.

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

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

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

Due to the nature of storm water discharges, and the typical lack of information on which to base numeric water quality-based effluent limitations (expressed as concentration and mass), LDEQ considers an permitting approach for NPDES storm water permits which is based on best management

practices (BMPs). (The permitting approach uses BMPs in first-round storm water permits, and expanded or better-tailored BMPs in subsequent permits, where necessary, to provide for the attainment of water quality standards.) These BMPs should include the location and mapping of all pollutant discharges, elimination of all illicit discharges, regionalization of sewage collection and treatment, and the rehabilitation of all problematic sewage collection lines within the MS4 regulated area. Other BMPs can be found in the respective permits.

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

LDEQ recommends that all requirements of the MS4s referenced in Tables 5 and 6 should be met through the implementation of appropriate and cost effective BMPs. Recent EPA memos regarding stormwater guidance, indicate where numeric effluent limitations should be applied to MS4 permits. However, as a result of this TMDL, no numeric effluent limitations are required for municipal stormwater discharge permits as a result of this TMDL.

3.3.1.2 Sanitary Dischargers

Chloride is found in most human and animal waste. Dischargers of sanitary wastewater accounted for approximately 186 permitted outfalls within the Bayou Manchac watershed. This typically consists of privately owned treatment facilities for businesses or residential subdivisions and publically owned wastewater treatment facilities that service small town or portions of cities. Some of the sanitary outfalls were located at industrial businesses. A review of permitting documents through LDEQ's EDMS indicated that disinfection by chlorination was part of the treatment process for 127 of the sanitary outfalls. The number of facilities using chlorination may be higher, when considering that many facilities may use chlorination without indicating it in their permit application documents. When chlorine is used for disinfection, it can eventually reach ambient waters. Under such circumstances, the chlorine can be converted to the chloride ion by obtaining one electron, thereby contributing to loading of the chloride ion within the Bayou Manchac watershed.

After chlorination, some facilities may provide additional treatment to dechlorinate the wastewater. Compounds such as sulfur dioxide or sulfite salts (sodium metabisulfite, and sodium bisulfate) are often used in the dechlorination process. Some of these compounds may be converted to sulfate upon entering ambient water, thus contributing to the sulfate loading. A review of permitting documents revealed that 1 of the permitted sanitary outfalls included dechlorination in its treatment process.

Both the chlorides and sulfates contribute to the loading of total dissolved solids. For the reasons stated above, dischargers of sanitary wastewater are likely contributors to the chloride, sulfate, and TDS loading in the Bayou Manchac watershed.

3.3.1.3 Industrial Dischargers

Research of LDEQ's TEMPO and EDMS databases indicated that there are 30 industrial facilities containing 67 outfalls that have the potential to contributing loads of chlorides, sulfates, and TDS. These included outfalls for sanitary wastewater, wash water/utility water, hydrostatic test water, and stormwater.

Many of the industrial facilities contained one or more outfalls for sanitary discharges. For the reasons stated in 3.3.1.2, these discharges may be contributing chloride, sulfate, and TDS loads to the Bayou Manchac watershed.

There was one industrial facility that had permit limits for chlorides at four of its outfalls. Three industrial facilities had permits that required monitoring for chlorides at one of their outfalls. One facility had a permit that required sulfate monitoring at one outfall. Typically, the monitoring was required only if compounds containing either chlorides or sulfates were being stored at the facility.

3.3.2 Potable Water Sources

The Baton Rouge Water Company provides potable water throughout the entire Bayou Manchac watershed. The company owns and operates many groundwater wells located throughout the Baton Rouge urban area. All water is obtained from groundwater aquifers located hundreds or thousands of feet below the Earth's surface. These aquifers are typically located between impermeable formations and often contain significant concentrations of chlorides, sulfates, and TDS.

Groundwater data collected from wells owned and operated by the Baton Rouge Water Company was obtained from the Louisiana Department of Health and Hospitals. The data was collected from October 17, 1994 to January 19, 2011 at multiple well sites located in the Baton Rouge area. According to the data, 26 of 261 (10%) chlorides samples, 58 of 261 (22%) sulfate samples, and 213 of 218 (98%) TDS samples were exceeding of the corresponding criteria for the Bayou Manchac watershed. The samples were taken at the well sites after extraction. No additional filtering of the water is conducted to remove any of these constituents before distribution. In addition, the water is typically treated with chlorine (primary disinfection) and chloramines (secondary disinfection) in preparation for distribution. Both of these chemical compounds contain chlorine, which can disassociate to the chloride ion once in ambient waters.

Groundwater serves as the only source of potable water in the Baton Rouge area, supplying water for all residential and commercial uses and many of the industrial uses. As a result, groundwater sources are suspected of contributing chloride, sulfate, and TDS loads to the Bayou Manchac watershed. Much of the loading is routed through municipal and private wastewater treatment plants. This means that these facilities are probably receiving raw wastewater that is high in chloride, sulfate, and TDS concentration. Additional loading may be introduced by people washing their cars and houses, watering their lawns, or using water for recreational purposes.

3.3.3 Potential Nonpoint Sources

Natural sources can also provide chloride, sulfate, and TDS loads. Natural sources may include items such as rock formations, soil deposits, mineral springs, carbonate deposits, and salt deposits. Other than soil deposits, these sources are generally not present within the Bayou Manchac watershed and are not expected to introduce a significant amount of loading. Chlorides and sulfates can leach from soils into the water column. Soil in the Bayou Manchac watershed is typically Mississippi River Alluvial Soils. LDEQ obtained soil information from the Natural Resource Conservation Center (NRCS) and the National Cooperative Soil Survey (NCSS). Soils within watershed are expected to have a k-factor in the range of 0.3 to 0.5, indicating a relatively high degree of erodability. The K-factor attribute is a component of the Universal Soil Loss Equation and is commonly used to measure a soils natural susceptibility to erosion. Erosion is also influenced by rainfall and runoff, land slope, vegetative cover, hydrologic modifications, and land management practices. Some of the soils may contain concentrations of Cl^- and/or SO_4, indicating that soils are a potential source of loading. (National Cooperative Soil Survey, 2011)

Additional nonpoint loading may include individual residential sewage treatment systems.
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3.3.4 Other Potential Sources

Sodium chloride, calcium chloride, and magnesium chloride are often used by transportation agencies and local governments to control icing on bridges during the winter season. The Louisiana Department of Transportation and Development intends to use ethylene glycol and potassium acetate as anti-icing or de-icing agents in both East Baton Rouge and Ascension Parishes. Neither of these compounds will contribute to the chloride loading in Bayou Manchac. The commercial, residential, and industrial use of bleaches may be introduced through typical wastewater discharges.

3.4 Water Quality Conditions/Assessment

Bayou Manchac, Subsegment 040201, is listed on the Final 2006, Draft 2008, and Draft 2010 Integrated Reports, in addition to EPA's Consent Decree. The impairments listed in the Integrated Reports and their suspected causes are shown in Tables 1 – 3. Because of the impairments for chlorides, sulfates, and Total Dissolved Solids (TDS), this subsegment requires the development of a total maximum daily loads (TMDLs) for those parameters. This report presents the TMDL development and results.

A comparison between the ambient data from Station 0142 and available reference stream data indicated that the chlorides, sulfates, and TDS concentrations in Bayou Manchac were generally 2 to 5

times higher than reference stream values. The ambient and reference stream data are presented in Appendix D2 and Appendix D6, respectively.

On page 12 of EPA's document titled "National Recommended Water Quality Criteria", the recommended criteria for chlorides is 230 mg/L, or approximately 9 times the existing chloride criteria for Subsegment 040201. Documentation of the recommended criteria is provided in Appendix F1. (EPA,2009)

A review of available research was conducted to evaluate the impact of high concentrations of chlorides, sulfates, and TDS on aquatic life. The information in Table 9 was compiled by the Iowa Department of Natural Resources and the EPA Office of Research and Development. The species presented in Table 9 are those considered for biomonitoring by LDEQ.

Table 9. Chloride Toxicity Information for LDEQ Biomonitoring Species

Genus	Acute (GMAV)[1]	Chronic (pGMCV)[2]
Pimephales	6515 mg/L	891.5 mg/L
Daphnia	2326 mg/L	729.8 mg/L
Ceriodaphnia	1542 mg/L	483.8 mg/L

* Note 1: Genus Mean Acute Value
**Note 2: Predicted Genus Mean Chronic Value
(Stephan, 2009)

Based on the information in Table 9, the chloride concentrations observed at WQN Site 0142 may not be adversely impacting the aquatic life. Increases in TDS increase the osmotic pressure of ambient water. This can increase the intolerance to environmental factors and decrease dissolved oxygen concentrations. Most freshwater ecosystems have TDS concentrations below 1,000 mg/L. However, many freshwater species can tolerate TDS concentrations of 5,000 mg/L or more. Documentation regarding the toxicity of chlorides is provided in Appendix F2. (Boyd, 2000)

3.5 Prior Studies

A TMDL for dissolved oxygen was completed and approved on May 11, 2011. The survey was conducted on June 5-8, 2007.

LDEQ has one monthly water quality sampling station on Bayou Manchac. LDEQ Water Quality Site 0142, Bayou Manchac near Prairieville, Louisiana, has a period of record from July 1985 to September 2009. For the dissolved oxygen TMDL, water quality data was collected during the Eularian survey conducted in June 2007. This data is presented in Appendix D1.

In 1984, a survey was conducted throughout the Amite River watershed and included several sites along Bayou Manchac. Beginning in 1997 and ending in 2005, mercury samples were collected from fish, water, and sediment as a part of a mercury study. In 2008, ambient fish kill sampling was conducted in response to Hurricane Gustav.

4. TMDL, WLA, LA, and MOS Development Process

4.1 Critical Flow and Seasonality

Regulations governing TMDL development are presented at 40 CFR 130.7 and Section 303(d) of the Federal Clean Water Act. Regulations at 40 CFR 130.7 require that TMDL reports take into account critical stream conditions. Those conditions may include stream flow, loading, and water quality parameters. According to LAC 33:IX.1115.B, Louisiana Water Quality Standards "shall apply during all flow conditions greater than the critical flow defined in LAC 33:IX.1115.C." Regulations at LAC 33:IX.1115.C.8 also state the following:

> "For chloride, sulfate, and total dissolved solids, criteria are to be met below the point of discharge after complete mixing. Because criteria are developed of a long-term period, harmonic mean flow will be applied for mixing" (LDEQ, 2011).

LDEQ has calculated the harmonic mean flow for Bayou Manchac at the confluence with the Amite River to be 94 MGD (146 ft^3/sec).

According to the regulations at both 40 CFR 130.7 and Section 303(d) of the Federal Clean Water Act, TMDLs must consider seasonal variations for meeting water quality standards. The water quality standards for chlorides, sulfates, and TDS do not include seasonal variations. In addition, seasonal trends were not detected in the water quality data for WQN Site 0142. Therefore, these TMDLs were developed on an annual basis.

4.2 TMDL Calculations

The TMDL for each parameter was developed using the equation below:

TMDL = criteria x HMF x conversion factor

where:

criteria = criteria for parameter in question
HMF = harmonic mean flow (MGD)
Conversion factor = 8.34 lb/million gallons/mg/L

The resulting TMDLs for Bayou Manchac are presented in Table 5 in the Technical Summary.

For facilities with existing permit limits, WLAs were calculated based on their existing permit limits, their expected flow, and a unit conversion factor. For facilities currently without permit limits, the WLAs were calculated based on the current criteria for Subsegment 040201, the expected outfall flow, and a unit conversion factor. A margin of safety of 20% was applied to all facilities and the MS4 permittees. The LA (nonpoint loads) was calculates by subtracting the total point source loads from the TMDL. The MS4 loads were then partitioned from the nonpoint loads based on the drainage area ratios. The resulting WLAs are presented in Table 6.

5. Load Reductions Analysis

5.1 Existing Conditions

In order to establish existing conditions, LDEQ evaluated data obtained at ambient monitoring station 0142, Bayou Manchac near Prairieville. The data covered a period of time spanning from 1986 to 2009. For chlorides, sulfates, and TDS, LDEQ's current assessment methodology requires that no more than 30% of samples may exceed the respective criterion. With respect to chlorides, approximately 60% of the samples exceeded the criterion. Approximately 67% and 84% of the samples were exceeding the criterion for sulfates and TDS, respectively. Graphs of the historical ambient data from station 0142 are shown in Figures 2 through 4. Both graphs and data are presented in Appendix D2.

Laboratory data collected during the TMDL survey was also reviewed but not utilized for the load reduction calculations. This survey was conducted June 5-7, 2007. The results showed that data collected at 6 of the 9 survey sites were exceeding the criteria for chlorides and TDS. Only four of the sites were exceeding the criteria for sulfates. In general, the data indicated impairments for all three parameters, based on current criteria. However, the reaches impacted by the Amite River showed improved water quality or no impairments. Data collected during the TMDL survey is presented in Appendix D1.

5.2 Reductions

In order to remain consistent with LDEQ ambient water quality assessment procedures, load reductions were determined based on historical data and ambient water quality assessment methodology. Ambient monitoring data was used to evaluate the required load reductions. The ambient data was charted in an EXCEL spreadsheet and graphed. The values were reduced until no more than 30% of the values for each parameter exceeded the respective criteria. The results showed that the chlorides, sulfates, and TDS concentrations must be reduced by 34%, 35%, and 39%, respectively. Tables 5 and 6 present the WLAs, LAs, TMDLs, and required load reductions. The graphs and spreadsheets used to calculate the reductions are shown in Appendix C.

6. Treatment Costs and Benefits

The primary form of treatment for chlorides, sulfates, and TDS is reverse osmosis. This treatment method is extremely expensive and cost prohibitive. Another option may include changing the primary form of disinfection to ultraviolet radiation (UV) on all permitted sanitary outfalls. However, UV radiation would be cost prohibitive when conducted on many smaller, individual facility outfalls.

LDEQ does recognize that the regionalization of sewage collection and treatment may offer benefits. UV radiation or other alternative forms of disinfection may provide an adequate benefit for the cost when conducted for a large regional sewage treatment plant. However, alternative forms of disinfection have their limitations and they would have to be evaluated accordingly. In addition, the cost of the regional collection and treatment system will be significant.

Figure 2. Ambient Station 0142 – Chlorides Graph

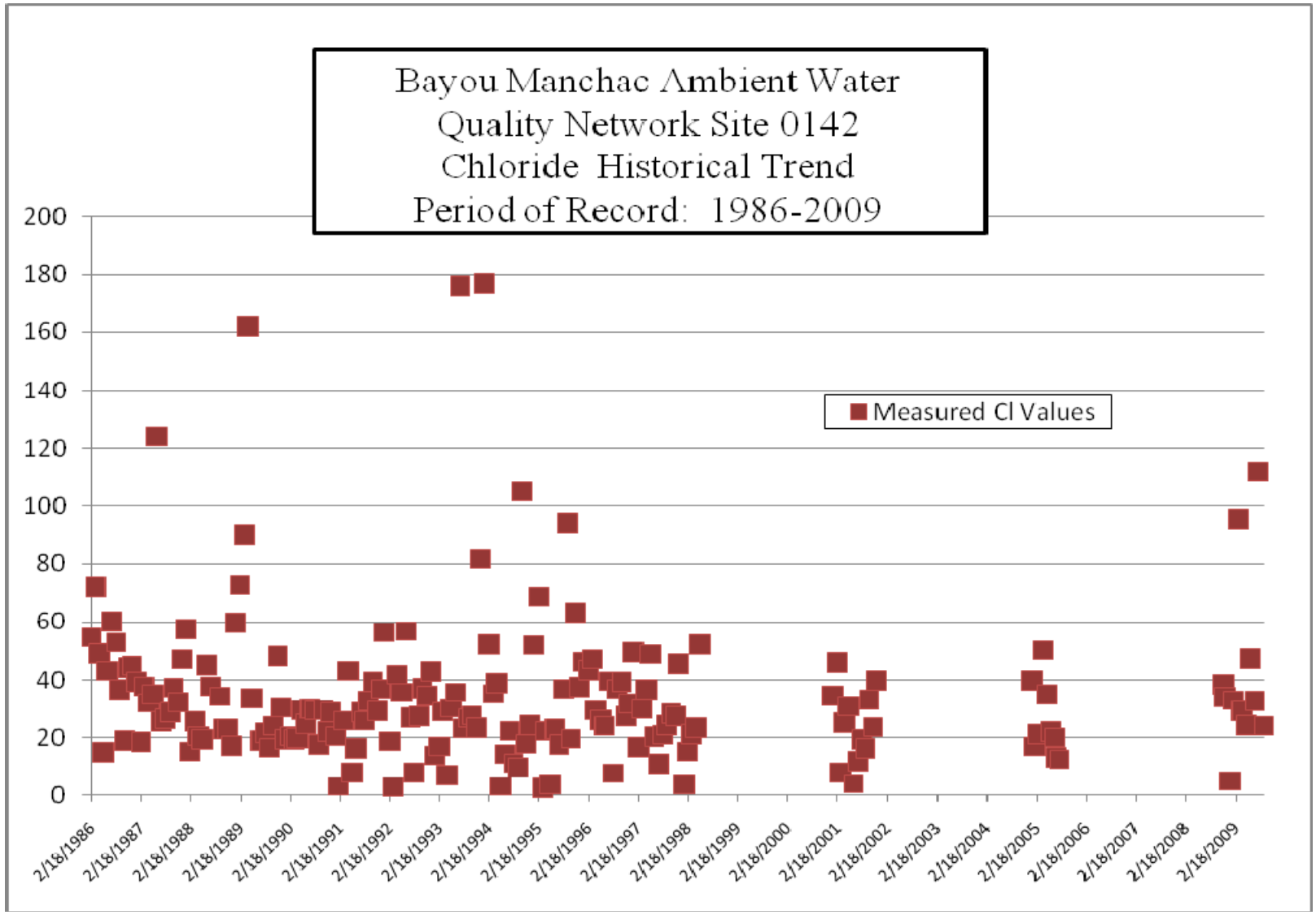


Figure 3. Ambient Station 0142 – Sulfates Graph

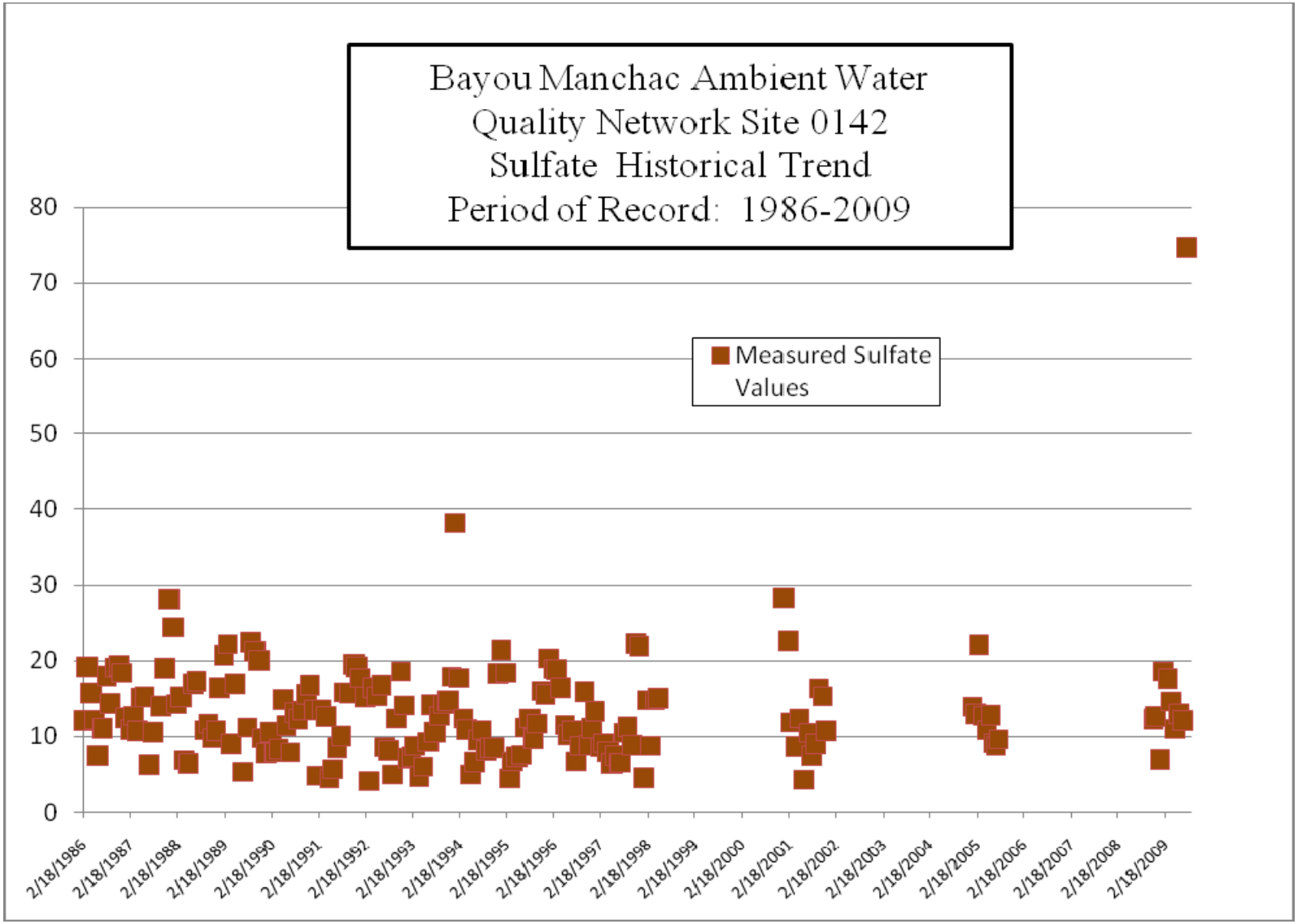
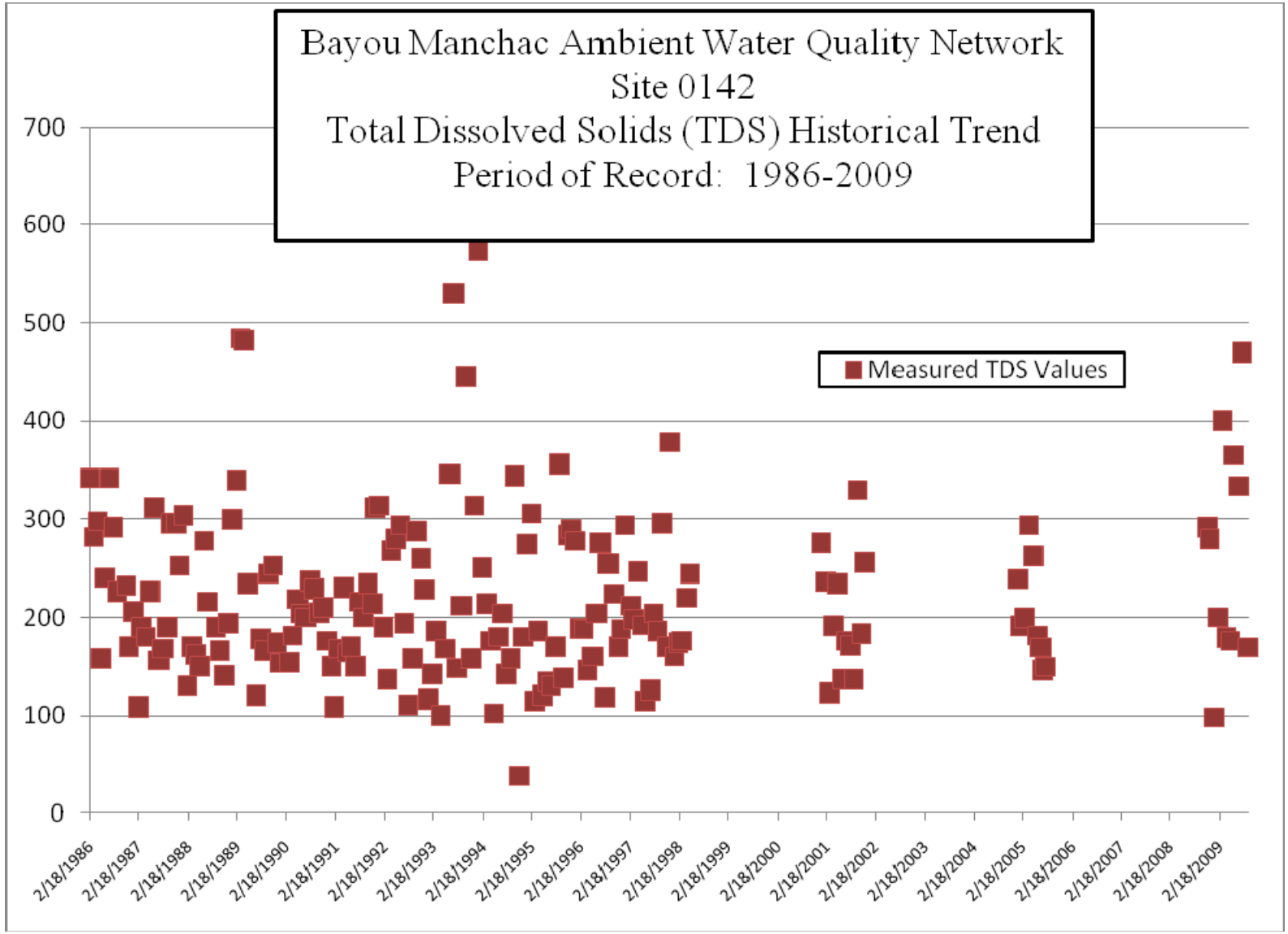


Figure 4. Ambient Station 0142 – Total Dissolved Solids Graph



7. Implementation

The source of all potable water within the watershed is groundwater. Data obtained from samples of this water source exceeded criteria for chlorides, sulfates, and TDS, indicating that the potable water source is contributing chloride, sulfate, and TDS loads to the Bayou Manchac watershed.

Many of the permitted sanitary outfalls are disinfecting with chlorine and some of these facilities are dechlorinating with a sulfate compound. The rate at which chlorine and sulfate disassociate in ambient water to produce chlorides and sulfates in the water column is unknown and may vary from facility to facility. However, none of these facilities are currently permitted for chlorides, sulfates, or TDS and LDEQ has no data to determine the chloride, sulfate, and TDS loads that these facilities are currently contributing to the water column.

The process of chlorination and dechlorination is conducted to alleviate fecal coliform impairments. Providing permit limits for chlorides, sulfates, and TDS may inhibit the ability of facilities to disinfect sanitary wastewater, thereby producing a less desirable sanitary issue and imposing danger to the public.

One industrial facility currently has permit limits for chlorides.

Due to the lack of existing facility/outall data, the uncertainty associated with load contributions from individual outfalls, the possible need to reevaluate the criteria, concerns of a less desirable sanitary issue, and prohibitive treatment costs, LDEQ is utilizing a phased TMDL approach for Bayou Manchac as shown in Table 4. This approach will allow LDEQ to gather more data for individual outfalls. In addition, LDEQ will have the opportunity evaluate the need to revise the chlorides, sulfates, and TDS criteria and at the same time, develop meaningful and implementable TMDL reports based upon the appropriate DO criteria and in accordance with EPA's Consent Decree (E. D. La. 2002) deadlines. At the same time, it will lead to improved water quality while providing local governments and businesses the opportunity to prepare and adjust to the new permit requirements that will be implemented as a result of the TMDL developed in Phases I and II.

Phase I will include the development of wasteload allocations (WLAs) based on the existing criteria. . However, implementation will occur in a phased manner. Phase I will serve as the first step towards meeting the chlorides, sulfates, and TDS criteria in Bayou Manchac. The implementation of permit limits will occur according to the following strategy.

<u>Phase I Permit Implementation</u>

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

1. New discharges of chlorides, sulfates, or total dissolved solids loads:

   Due to the lack of knowledge regarding the loading contributions from various types of facilities, natural sources, and the contributions from the local potable water source, permits for new facility outfalls will typically require only annual monitoring during

the first full permitting cycle that occurs during Phase I. However, before the subsequent renewal of each permit, an assessment of chloride, sulfate, and total dissolved solids monitoring data from designated outfalls may be conducted to determine if permit limits are required during Phase I. Permit limits will be established based on regulatory guidelines and in accordance with LDEQ's Permitting Guidance Document For Implementing Louisiana Surface Water Quality Standards, Water Quality Management Plan Volume 3. Facilities with new discharges may be required to submit an environmental impact assessment to LDEQ's Water Permits Division. Once the TMDL is approved by EPA and LDEQ has determined that permit limits are needed, new facilities may have up to 3 years from their next permit renewal date to meet the Phase I permit limits. Applicable General Permit schedules will be updated to meet the requirements of the TMDL upon the first renewal of each series following the TMDL approval date. Examples of facility outfalls that will be considered are provided below.

a. Annual monitoring will be required for outfall types included in, but not limited to, the list provided below. Upon renewal of each permit, existing facility data will be compared to the values of 250 mg/L (chlorides), 75 mg/L (sulfates), and 500 mg/L (total dissolved solids). Permit limits will be considered for a facility if the monitoring data exceeds the referenced values.

    i. Sanitary

    ii. Vehicle or equipment wash water

    iii. Wash rack wastewater

b. Technology-based permit limits will be established for outfall types included in, but not limited to, the list provided below. Permit limits will be based on current regulatory guidelines and departmental procedures.

    i. Industrial process outfalls that have demonstrated a reasonable potential to produce wastewater that will contain concentrations of chlorides, sulfates, or total dissolved solids.

    ii. Stormwater for facilities identified according to item 1.b.i above.

    iii. Any outfalls that have demonstrated a reasonable potential to produce wastewater that will contain concentrations of chlorides, sulfates, or total dissolved solids.

2. Existing discharges of chlorides, sulfates, or total dissolved solids loads:

Below are the limits and monitoring implementation activities for existing facility outfalls in the Bayou Manchac watershed. Existing unpermitted facility outfalls discovered to be discharging chloride, sulfate, and/or total dissolved solids loads without LPDES permit limits as of the TMDL approval date and unpermitted facility outfalls that are newly activated or reactivated and discharging chloride, sulfate, and/or TDS loads after the TMDL approval date are to be permitted according to the guidelines established herein for existing outfalls with permits. Permit limits will be established based on regulatory guidelines and accordance with LDEQ's Permitting Guidance Document For Implementing Louisiana Surface Water Quality Standards, Water Quality Management Plan Volume 3.

a. The following 4 facilities had one or more outfalls with permit limits or monitoring for chlorides and/or sulfates. They will retain their current permit limits or monitoring requirements.

   i. Harcros Chemicals, Inc. (AI No. 2055, LPDES Permit No. LA0110825).

   ii. Reagent Chemical & Research, Inc – St. Gabriel Facility (AI No. 2407, LPDES Permit No. LA0059579).

   iii. Kinder Morgan Liquids Terminals St. Gabriel, LLC (AI No. 39978, LPDES Permit No. LA0052353).

   iv. St. Gabriel Dehydration & NGL Production Facility (AI No. 138856, LPDES Permit No. LAG33A602).

b. All other facilities will conduct annual monitoring as described in item 1 above. Once the TMDL is approved by EPA and LDEQ has determined that permit limits are required, existing facilities may have up to 3 years from their next permit renewal date to meet the Phase I permit limits.

3. LDEQ reassesses Subsegment 040201 (Bayou Manchac). If, at a future date, LDEQ determines that Subsegment 040201 is meeting the appropriate chloride, sulfate, and TDS criteria and designated uses and/or impairments for these parameters do not exist, the use of permit limits for chlorides, sulfates, and TDS may be reevaluated.

Phase II will be developed based on the outcome of a planned use attainability analysis (UAA). This UAA is expected to propose new chloride, sulfate, and TDS criteria. Chloride, sulfate, and TDS TMDLs for Subsegment 040201 have a court ordered due date of March 31, 2012. These new criteria are expected to be developed and promulgated within the next five (5) years.

In the event the new criteria is not developed and promulgated within five (5) years from the TMDL approval date, LDEQ intends to proceed in the following manner:

Case 1: The UAA study indicates that the existing chloride, sulfate, and total dissolved solids criteria are appropriate - the TMDLs will be implemented based on the existing criteria LDEQ's Permitting Guidance Document For Implementing Louisiana Surface Water Quality Standards, Water Quality Management Plan Volume 3.
Case 2: The UAA is not likely to be completed and/or approved - the TMDL will be implemented based on the existing criteria and in accordance with LDEQ's Permitting Guidance Document For Implementing Louisiana Surface Water Quality Standards, Water Quality Management Plan Volume 3.
Case 3: The UAA is in process and is expected to be approved – Phase II of the TMDL will be postponed for a maximum period of two (2) years. If the UAA has not been completed at the end of this two-year period, the UAA status will be reviewed again according to Cases 1 - 3.

8. Conclusions

This TMDL establishes wasteload allocations for chlorides, sulfates, and TDS and recommends a permitting implementation plan. The implementation of this TMDL will occur through monitoring of wastewater discharges and the application of wastewater discharge permits limits as indicated in the Phase I Permit Implementation Plan. All requirements of MS4 permittees are expected to be met through best management practices.

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

The impact of stormwater loading on the waterbody under critical conditions is difficult to determine. Frequent monitoring can be monetarily and logistically prohibitive. Due to the variable nature of stormwater, it may be impractical to set MS4 permit limits or target values. However, appropriate BMP measures shall be incorporated into the MS4 permits to minimize the impacts loads emanating from the MS4 regulated areas on the water quality in Bayou Manchac. Such BMP measures may include the elimination of illicit wastewater discharges, the regionalization of wastewater treatment, rehabilitating and upgrading sewer collection system lines, and other appropriate activities. BMPs included in MS4 permits should also include measures to reduce the impact of stormwater loading on the water quality of Bayou Manchac. A monitoring component should be included, provided it is cost effective.

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

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

Figure 5. Load Reduction Analysis Graph – Chlorides

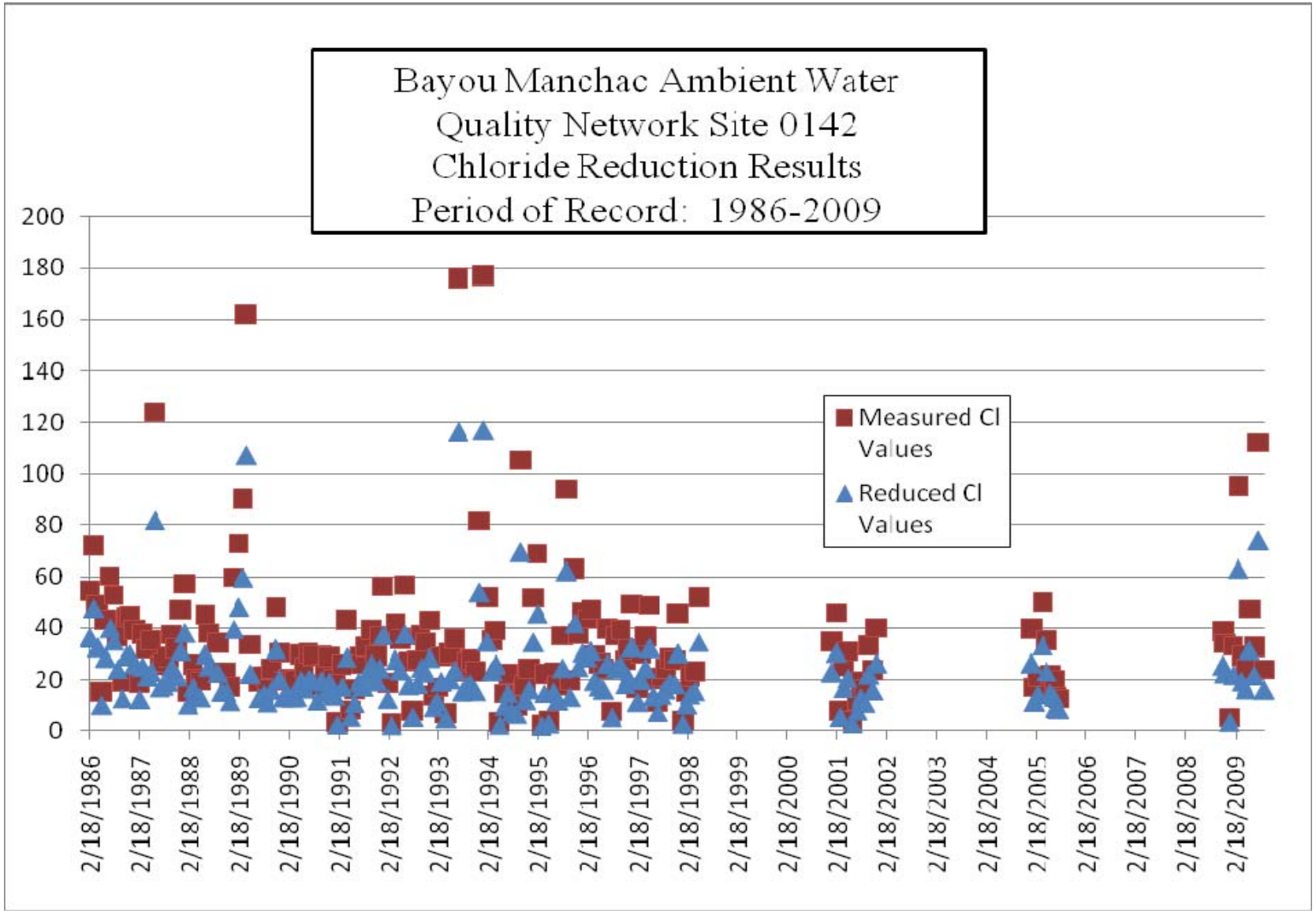


Figure 6. Load Reduction Analysis Graph – Sulfates

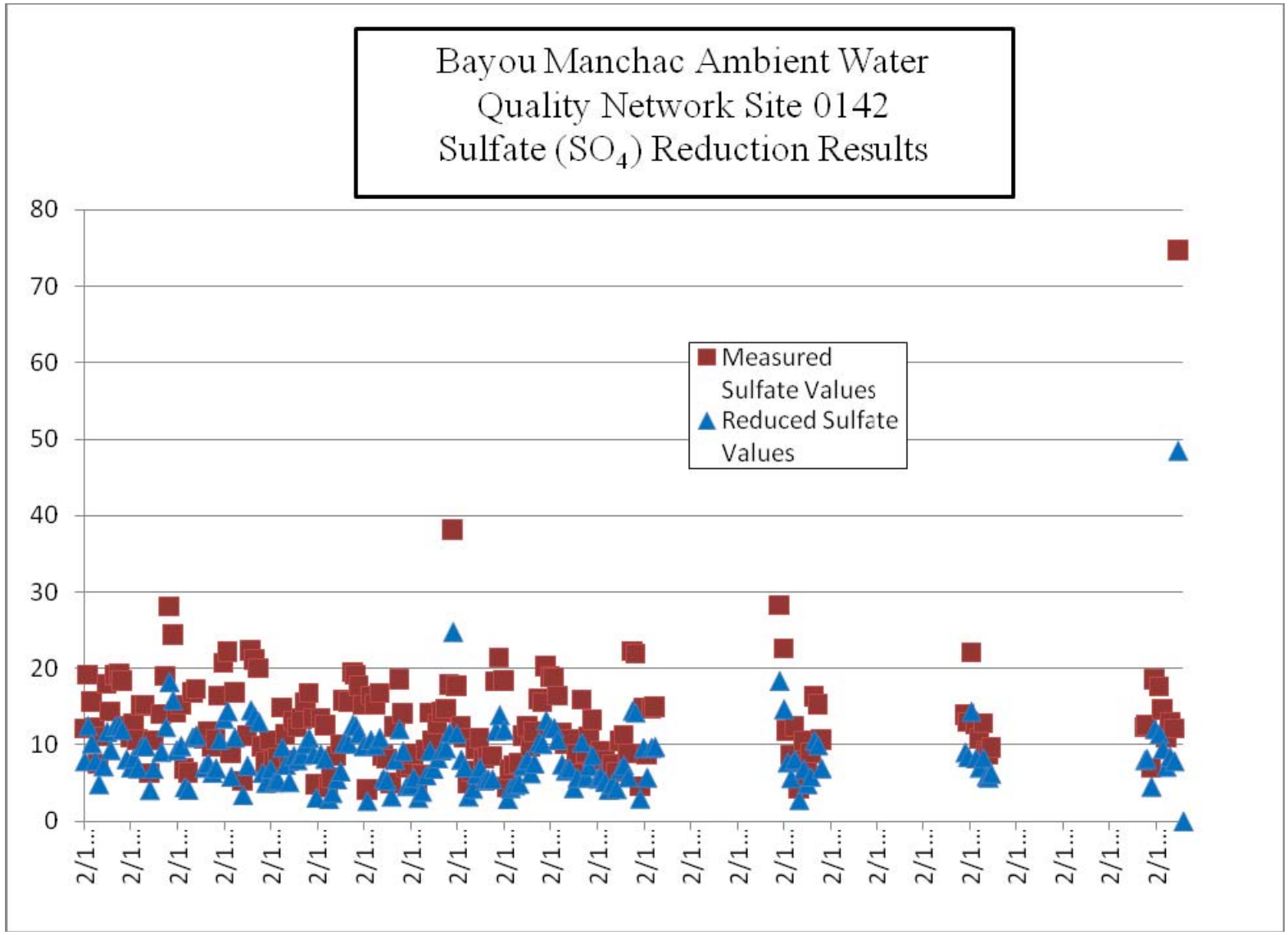
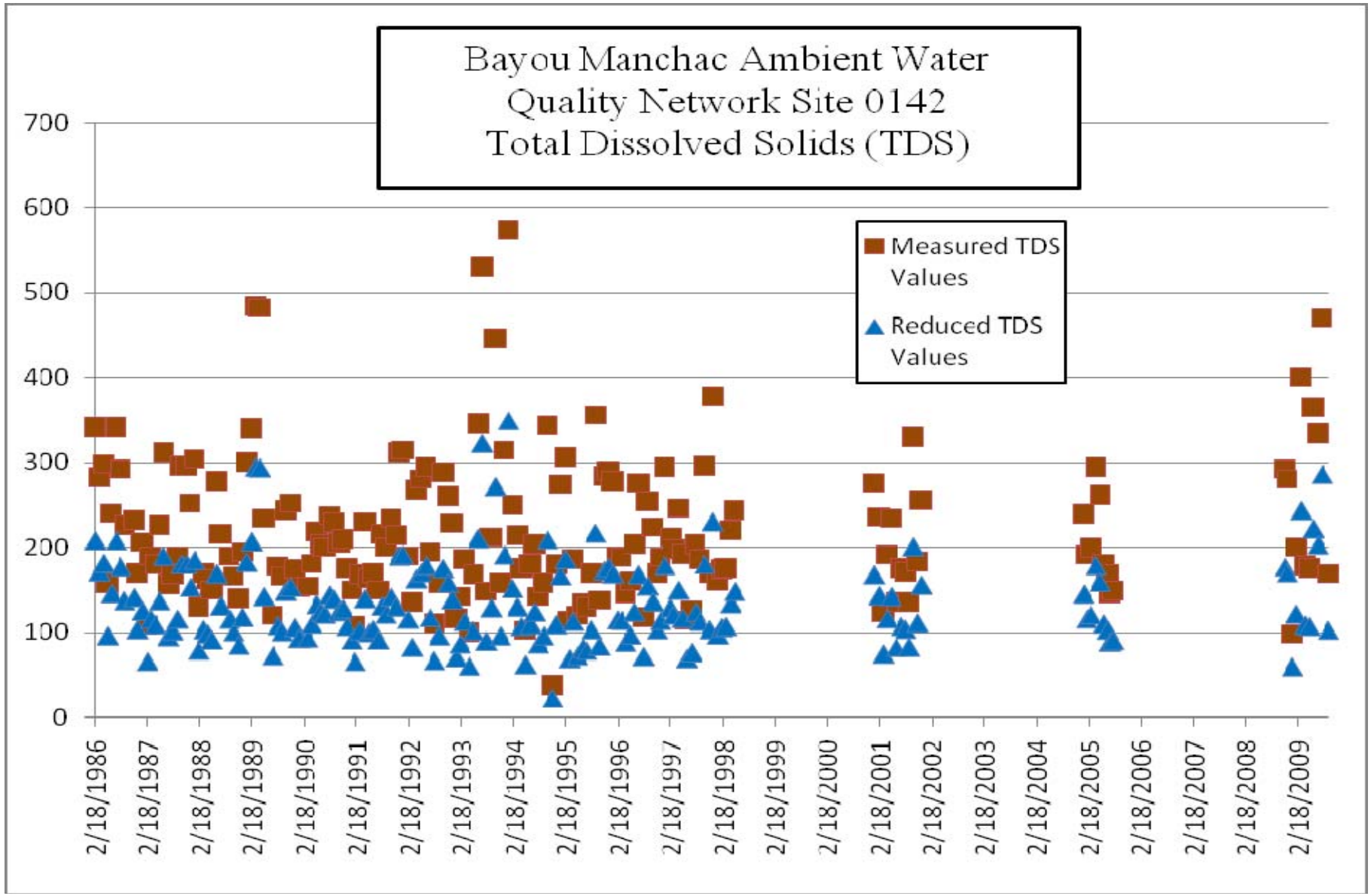


Figure 7. Load Reduction Analysis Graph – Total Dissolved Solids



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 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 by LDEQ and approved by EPA, waterbodies may be added to or removed from the 303(d) list.

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10. Appendices

Appendix A – TMDL Calculations

Bayou Manchac is tidal, however for purposes of the flow, it was assumed (BPJ) that there is a net advective flow.
Harmonic mean flow (HMF) calculations provided by Max Forbes, hydrologist.

HMF at US 61 =	103	ft3/sec	=	67	MGD
HMF at the confluence with the Amite River (runoff ratio=0.4) =	117	ft3/sec	=	76	MGD
HMF at the confluence with the Amite River (runoff ratio=0.5) =	146	ft3/sec	=	94	MGD
East Baton Rouge Parish MS4 Drainage area =	60,744.57	acres			
Ascension Parish MS4 Drainage area =	5836.91	acres			
Total area Subsegment 040201 =	110,391.50	acres			

Parameter	Criteria (mg/L)	TMDL (lb/day)	MOS (lbs/day)	Sum of Point Source WLAs (lbs/day)	Sum of Point Source MOS (lbs/day)	Total Nonpoint Source LA (lbs/day)	Total Nonpoint Source MOS (lbs/day)	East Baton Rouge Parish MS4 WLA (lbs.day)	East Baton Rouge Parish MS4 MOS (lbs.day)	Ascension Parish MS4 WLA (lbs.day)	Ascension Parish MS4 MOS (lbs.day)	Remaining Nonpoint Load LA (lbs/day)	Remaining Nonpoint Load MOS (lbs/day)
Chlorides	25	19,677.4	3,935.5	11,780.0	2,945.0	3,962.0	990.5	2,180.1	545.0	209.5	52.4	1,572.3	393.1
Sulfates	10	7,871.0	1,574.2	4,679.0	1,170.0	1,617.8	404.2	890.2	222.4	85.5	21.4	642.0	160.4
Total Dissolved Solids	150	118,064.6	23,612.9	70,184.0	17,546.0	24,267.7	6,066.9	13,353.7	3,338.4	1,283.1	320.8	9,630.9	2,407.7

2006 IR report stated a suspected source is Site Clearance (Land Development or Redevelopment); Therefore WLA provided for the MS4.
No nonpoint sources of chlorides, sulfates, or TDS.
No mining operations in the area.

Appendix B – Critical Flow Calculations

April 11, 2011

DETERMINATION OF THE HARMONIC MEAN FLOW (HMF) FOR BAYOU MANCHAC AT U.S. HIGHWAY 61 AND AT MOUTH, SE OF BATON ROUGE

Traditional procedures for computing the HMF call for an extended period (as: five years) of daily mean stream flow. Daily stream flow data for Bayou Manchac at the two locations does not exist.

In the past, an estimation procedure has been used to arrive at an ESTIMATED HMF. This involves estimating an average mean annual discharge for the desired location using (1) the drainage area for the location, (2) an estimated average runoff based on precipitation (in general, annual runoff is estimated to be about one-third of the precipitation), and (3), an estimate of the ratio of the HMF to the average runoff. This ratio is a function of the sustainability of daily flows. As an example, the ratio for the Mississippi River is about 0.75; the ratio for the Tangipahoa River is about 0.60; and the ratio for streams with sustained period of zero flow may be lower than 0.10.

Based on the foregoing explanation, HMF's for the two sites were estimated using the three factors mentioned.

BAYOU MANCHAC AT U.S. HIGHWAY 61.

Drainage area about 134 square miles; this included parts of South Baton Rouge.
Precipitation about 65 inches.
Runoff ratio estimated at about 0.35. (Computations also made at 0.40 and 0.50 to show effect of increased runoff ratio.)
Ratio of HMF to average runoff estimated at about 0.40.

VOLUME OF RUNOFF:

Surface area = 134 X 5280 X 5280 = 3.736×10^9 square ft.

Volume of runoff = 0.35 X 65/12 X 3.736×10^9 = 7.083×10^9 cubic feet.

$$\text{Average discharge} = \frac{7.083 \times 10^9}{365 \times 24 \times 3600} = 225 \text{ CFS}$$

HMF = 0.4 X 200 = 90 CFS

For a runoff ratio of 0.40 the HMF would be 103 CFS.
For a runoff ratio of 0.50, the HMF would be 129 CFS.

Estimations of average discharge and HMF are rounded to whole numbers.

BAYOU MANCHAC AT MOUTH.

Drainage area about 152 square miles; this included parts of South Baton Rouge.
Precipitation about 65 inches.
Runoff ratio estimated at about 0.35. (Computations also made at 0.40 and 0.50 to show effect of increased runoff ratio.)
Ratio of HMF to average runoff estimated at about 0.40.

VOLUME OF RUNOFF:

Surface area = 152 X 5280 X 5280 = 4.238×10^9 square ft.

Annual volume of runoff = 0.35 X 65/12 X 4.238×10^9 = 8.035×10^9 cubic feet.

Average discharge = $\frac{8.035 \times 10^9}{365 \times 24 \times 3600}$ = 255 CFS

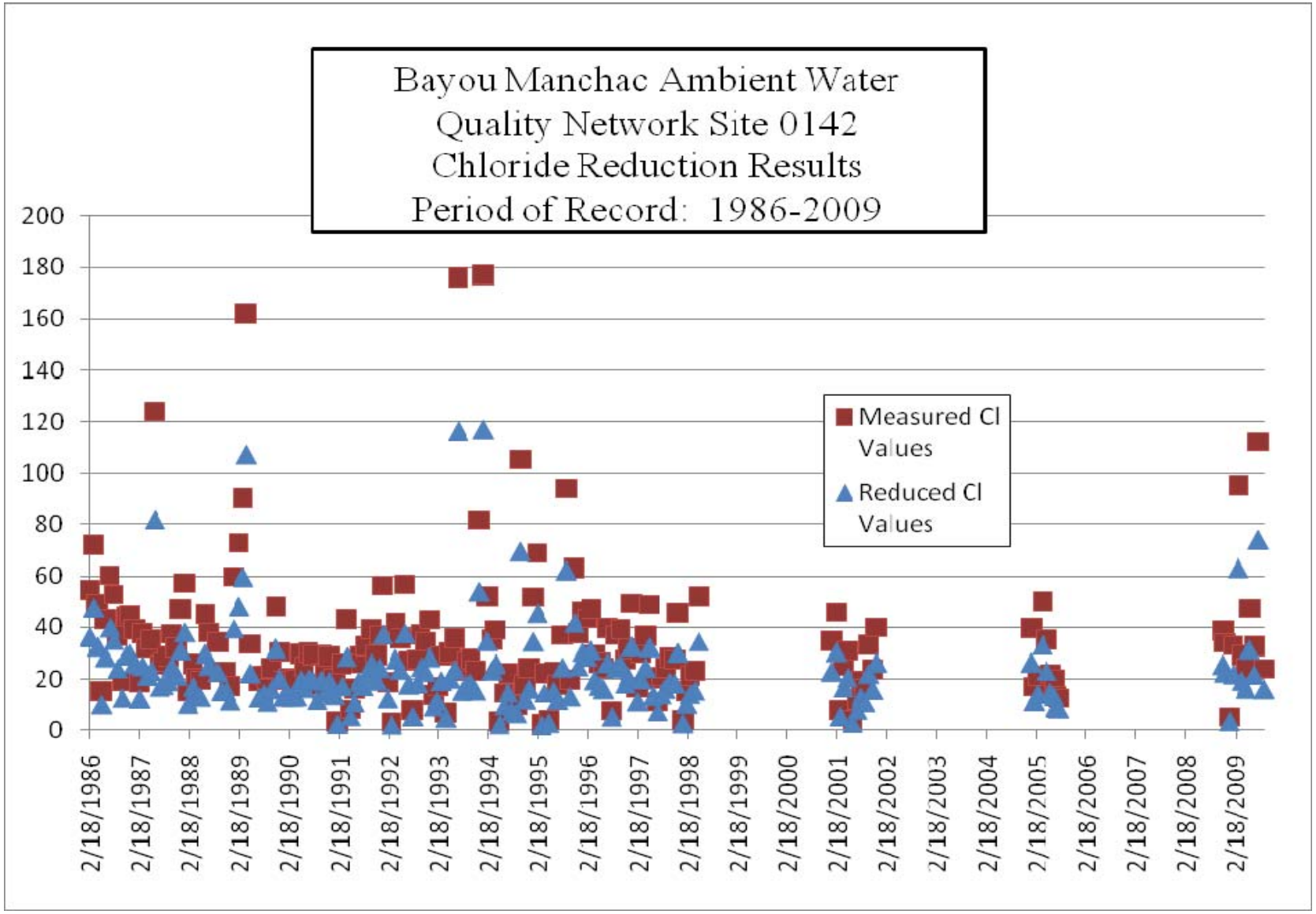
HMF = 0.4 X 200 = 102 CFS

For a runoff ratio of 0.40 the HMF would be 117 CFS.
For a runoff ratio of 0.50, the HMF would be 146 CFS.

Estimations of average discharge and HMF are rounded to whole numbers.

Prepared by Max Forbes

Appendix C – Load Reduction Analysis


Bayou Manchac Ambient Water Quality Network Site 0142 Chloride Reduction Results Period of Record: 1986-2009
200
180
160
140
120
100
80
60
40
20
0
Measured Cl Values
Reduced Cl Values
2/18/1986
2/18/1987
2/18/1988
2/18/1989
2/18/1990
2/18/1991
2/18/1992
2/18/1993
2/18/1994
2/18/1995
2/18/1996
2/18/1997
2/18/1998
2/18/1999
2/18/2000
2/18/2001
2/18/2002
2/18/2003
2/18/2004
2/18/2005
2/18/2006
2/18/2007
2/18/2008
2/18/2009

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/18/1986	54.6	CHLORIDE, ION CHROMATOGRAPH		34.00%	36.036	25	1	1	178	51	29%
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/18/1986	72	CHLORIDE, ION CHROMATOGRAPH		34.00%	47.52	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/15/1986	49.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	32.406	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/13/1986	15.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	9.966	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/10/1986	43	CHLORIDE, ION CHROMATOGRAPH		34.00%	28.38	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/15/1986	60.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	39.732	25	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/12/1986	52.9	CHLORIDE, ION CHROMATOGRAPH		34.00%	34.914	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/9/1986	36.6	CHLORIDE, ION CHROMATOGRAPH		34.00%	24.156	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/14/1986	18.9	CHLORIDE, ION CHROMATOGRAPH		34.00%	12.474	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1986	44.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	29.106	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/8/1986	44.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	29.568	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/1987	39.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	25.872	25	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/16/1987	18.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	12.21	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1987	37.7	CHLORIDE, ION CHROMATOGRAPH		34.00%	24.882	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1987	32	CHLORIDE, ION CHROMATOGRAPH		34.00%	21.12	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1987	35	CHLORIDE, ION CHROMATOGRAPH		34.00%	23.1	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/8/1987	124	CHLORIDE, ION CHROMATOGRAPH		34.00%	81.84	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/13/1987	25.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	16.83	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/10/1987	26.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	17.49	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/14/1987	28.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	19.008	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/12/1987	37.4	CHLORIDE, ION CHROMATOGRAPH		34.00%	24.684	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/16/1987	32.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	21.252	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/14/1987	47	CHLORIDE, ION CHROMATOGRAPH		34.00%	31.02	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/11/1988	57.4	CHLORIDE, ION CHROMATOGRAPH		34.00%	37.884	25	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/8/1988	15.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	10.098	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1988	25.6	CHLORIDE, ION CHROMATOGRAPH		34.00%	16.896	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/11/1988	20.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	13.53	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/9/1988	19.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	12.87	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/13/1988	45	CHLORIDE, ION CHROMATOGRAPH		34.00%	29.7	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1988	37.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	24.948	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/12/1988	34.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	22.572	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/10/1988	23	CHLORIDE, ION CHROMATOGRAPH		34.00%	15.18	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/14/1988	23	CHLORIDE, ION CHROMATOGRAPH		34.00%	15.18	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/12/1988	17.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	11.418	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/1989	59.7	CHLORIDE, ION CHROMATOGRAPH		34.00%	39.402	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/13/1989	72.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	48.048	25	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1989	90.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	59.598	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/10/1989	162	CHLORIDE, ION CHROMATOGRAPH		34.00%	106.92	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/8/1989	33.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	22.11	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1989	19.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	12.606	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/15/1989	21.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	14.19	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/12/1989	16.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	10.89	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/10/1989	24.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	15.906	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1989	48.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	31.746	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/11/1989	30.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	20.13	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/8/1990	19.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	12.87	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/12/1990	20.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	13.53	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/12/1990	19.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	12.87	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/9/1990	19.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	13.068	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/14/1990	29.7	CHLORIDE, ION CHROMATOGRAPH		34.00%	19.602	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/11/1990	24.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	16.368	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/9/1990	30.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	19.866	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/13/1990	29.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	19.338	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/1990	17.7	CHLORIDE, ION CHROMATOGRAPH		34.00%	11.682	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/15/1990	29.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	19.47	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1990	22.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	14.586	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/10/1990	28.7	CHLORIDE, ION CHROMATOGRAPH		34.00%	18.942	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/15/1991	20.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	13.53	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/5/1991	3.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	2.178	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/12/1991	25.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	17.028	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/16/1991	43.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	28.446	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/14/1991	8	CHLORIDE, ION CHROMATOGRAPH		34.00%	5.28	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/11/1991	16.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	10.692	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/16/1991	28.6	CHLORIDE, ION CHROMATOGRAPH		34.00%	18.876	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/13/1991	25.9	CHLORIDE, ION CHROMATOGRAPH		34.00%	17.094	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/1991	32.6	CHLORIDE, ION CHROMATOGRAPH		34.00%	21.516	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/15/1991	39.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	25.872	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/19/1991	29.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	19.272	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/10/1991	36.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	24.288	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/6/1992	56.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	37.158	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/11/1992	18.7	CHLORIDE, ION CHROMATOGRAPH		34.00%	12.342	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/10/1992	3	CHLORIDE, ION CHROMATOGRAPH		34.00%	1.98	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/7/1992	41.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	27.588	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/12/1992	35.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	23.43	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/16/1992	56.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	37.488	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/14/1992	27	CHLORIDE, ION CHROMATOGRAPH		34.00%	17.82	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/11/1992	7.9	CHLORIDE, ION CHROMATOGRAPH		34.00%	5.214	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/15/1992	27.4	CHLORIDE, ION CHROMATOGRAPH		34.00%	18.084	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/13/1992	37.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	24.486	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1992	34.4	CHLORIDE, ION CHROMATOGRAPH		34.00%	22.704	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/15/1992	42.9	CHLORIDE, ION CHROMATOGRAPH		34.00%	28.314	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/1993	13.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	9.108	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/9/1993	17	CHLORIDE, ION CHROMATOGRAPH		34.00%	11.22	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1993	29	CHLORIDE, ION CHROMATOGRAPH		34.00%	19.14	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1993	6.9	CHLORIDE, ION CHROMATOGRAPH		34.00%	4.554	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1993	30.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	19.998	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/15/1993	35.6	CHLORIDE, ION CHROMATOGRAPH		34.00%	23.496	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/13/1993	176	CHLORIDE, ION CHROMATOGRAPH		34.00%	116.16	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/10/1993	23.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	15.312	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/14/1993	26.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	17.688	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/12/1993	27.6	CHLORIDE, ION CHROMATOGRAPH		34.00%	18.216	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/16/1993	23.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	15.378	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/14/1993	81.6	CHLORIDE, ION CHROMATOGRAPH		34.00%	53.856	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/11/1994	177	CHLORIDE, ION CHROMATOGRAPH		34.00%	116.82	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/8/1994	52.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	34.386	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/15/1994	35.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	23.232	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/12/1994	38.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	25.608	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/10/1994	3.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	2.112	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/14/1994	14.4	CHLORIDE, ION CHROMATOGRAPH		34.00%	9.504	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/12/1994	22.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	14.652	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/9/1994	11.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	7.458	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/13/1994	9.7	CHLORIDE, ION CHROMATOGRAPH		34.00%	6.402	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/11/1994	105	CHLORIDE, ION CHROMATOGRAPH		34.00%	69.3	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/15/1994	17.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	11.748	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/13/1994	24.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	15.972	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/10/1995	51.9	CHLORIDE, ION CHROMATOGRAPH		34.00%	34.254	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/14/1995	68.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	45.408	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1995	2.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	1.65	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/4/1995	22.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	14.652	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/9/1995	3.9	CHLORIDE, ION CHROMATOGRAPH		34.00%	2.574	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/13/1995	22.9	CHLORIDE, ION CHROMATOGRAPH		34.00%	15.114	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1995	17.6	CHLORIDE, ION CHROMATOGRAPH		34.00%	11.616	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/15/1995	36.9	CHLORIDE, ION CHROMATOGRAPH		34.00%	24.354	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/11/1995	94.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	62.106	25	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/9/1995	19.7	CHLORIDE, ION CHROMATOGRAPH		34.00%	13.002	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1995	63.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	41.646	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/11/1995	37.6	CHLORIDE, ION CHROMATOGRAPH		34.00%	24.816	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/1996	46.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	30.492	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/12/1996	43.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	28.578	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/11/1996	47	CHLORIDE, ION CHROMATOGRAPH		34.00%	31.02	25	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/8/1996	29.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	19.338	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/13/1996	26.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	17.226	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/10/1996	24.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	15.906	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/8/1996	39.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	26.07	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/12/1996	7.6	CHLORIDE, ION CHROMATOGRAPH		34.00%	5.016	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/9/1996	36.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	24.288	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/14/1996	39.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	25.872	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/18/1996	27.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	18.15	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/9/1996	31.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	20.988	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/6/1997	49.4	CHLORIDE, ION CHROMATOGRAPH		34.00%	32.604	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/17/1997	16.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	11.088	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/10/1997	30	CHLORIDE, ION CHROMATOGRAPH		34.00%	19.8	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/14/1997	36.7	CHLORIDE, ION CHROMATOGRAPH		34.00%	24.222	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/12/1997	48.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	32.208	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/9/1997	20.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	13.332	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/14/1997	10.9	CHLORIDE, ION CHROMATOGRAPH		34.00%	7.194	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/11/1997	21	CHLORIDE, ION CHROMATOGRAPH		34.00%	13.86	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/8/1997	24.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	16.038	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/13/1997	28.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	18.612	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1997	27.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	18.15	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/9/1997	45.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	30.03	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/13/1998	3.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	2.508	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/9/1998	15.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	10.032	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1998	21.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	13.992	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1998	23.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	15.378	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1998	52.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	34.386	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/2001	34.5	CHLORIDE, ION CHROMATOGRAPH		34.00%	22.77	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/13/2001	45.9	CHLORIDE, ION CHROMATOGRAPH		34.00%	30.294	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/13/2001	7.9	CHLORIDE, ION CHROMATOGRAPH		34.00%	5.214	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/9/2001	25.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	16.632	25	1	0			

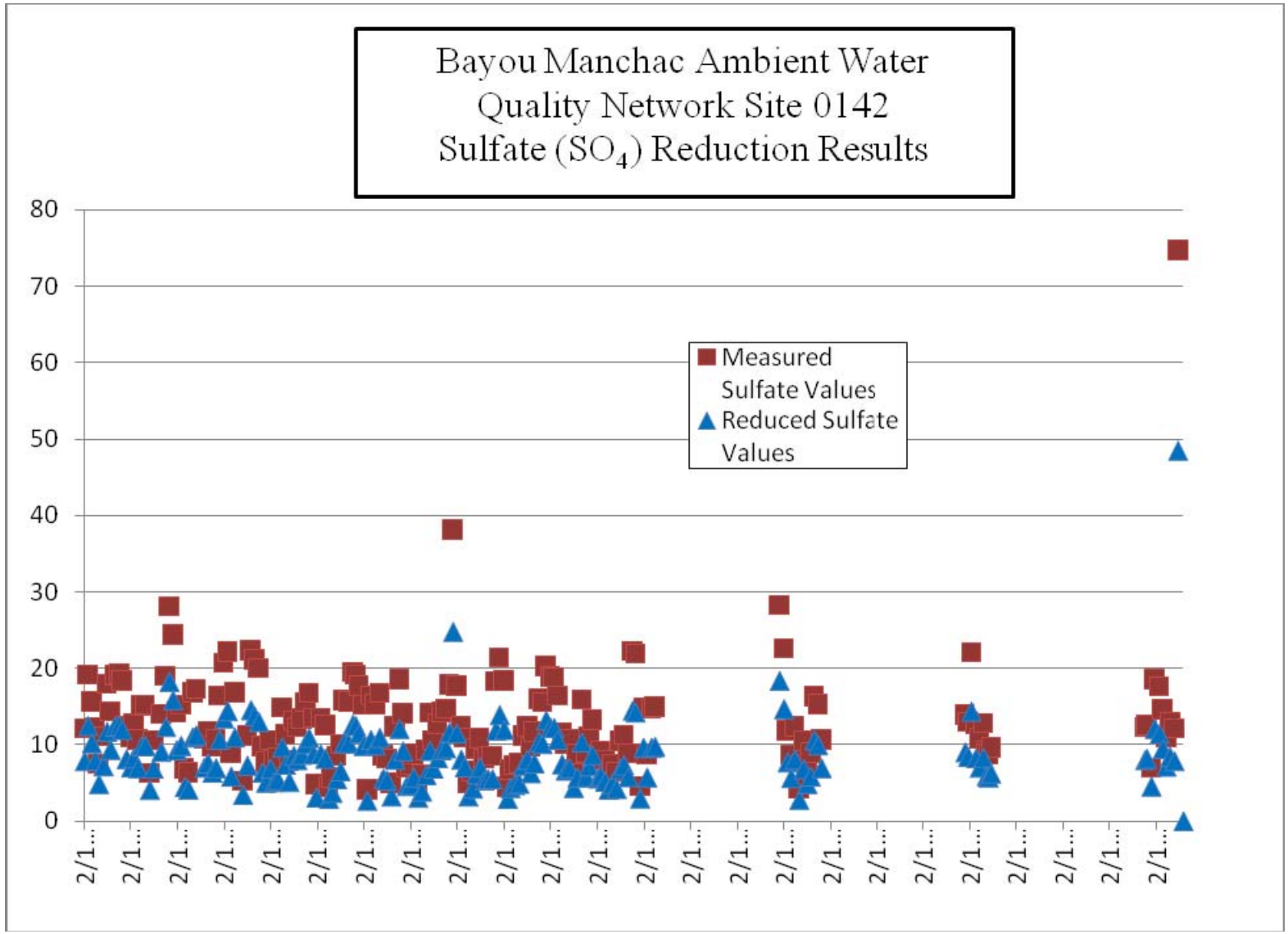
Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/8/2001	31	CHLORIDE, ION CHROMATOGRAPH		34.00%	20.46	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/12/2001	4.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	2.706	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/17/2001	11.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	7.788	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/14/2001	19.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	12.738	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/2001	16.4	CHLORIDE, ION CHROMATOGRAPH		34.00%	10.824	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/9/2001	33.2	CHLORIDE, ION CHROMATOGRAPH		34.00%	21.912	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/6/2001	23.7	CHLORIDE, ION CHROMATOGRAPH		34.00%	15.642	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/3/2001	39.8	CHLORIDE, ION CHROMATOGRAPH		34.00%	26.268	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/2005	39.7	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	26.202	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/2/2005	17	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	11.22	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/1/2005	21.3	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	14.058	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/6/2005	50.1	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	33.066	25	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/4/2005	35	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	23.1	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/2/2005	22	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	14.52	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/28/2005	20	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	13.2	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/12/2005	13.1	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	8.646	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/2/2005	12.5	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	8.25	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/18/2008	38.5	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	25.41	25	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/2/2008	33.9	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	22.374	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/7/2009	5	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	3.3	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/3/2009	32.9	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	21.714	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/11/2009	95.5	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	63.03	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/7/2009	29.1	CHLORIDE, ION CHROMATOGRAPH		34.00%	19.206	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/5/2009	24.3	CHLORIDE, ION CHROMATOGRAPH		34.00%	16.038	25	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced Cl Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/2/2009	47.4	CHLORIDE, ION CHROMATOGRAPH		34.00%	31.284	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/7/2009	32.7	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	21.582	25	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/4/2009	112	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	73.92	25	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/15/2009	24	CHLORIDE, ION CHROMATOGRAPH	Unfiltered	34.00%	15.84	25	1	0			
					70th percentile of reduced values			24.8028						


Bayou Manchac Ambient Water Quality Network Site 0142 Sulfate (SO_4) Reduction Results
80
70
60
50
40
30
20
10
0
Measured Sulfate Values
Reduced Sulfate Values
2/1...

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/18/1986	12.1	SULFATE		35.00%	7.87	10	1	0	177	50	28%
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/18/1986	19.2	SULFATE		35.00%	12.48	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/15/1986	15.7	SULFATE		35.00%	10.21	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/13/1986	12.2	SULFATE		35.00%	7.93	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/10/1986	7.5	SULFATE		35.00%	4.88	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/15/1986	11.1	SULFATE		35.00%	7.22	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/12/1986	18	SULFATE		35.00%	11.70	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/9/1986	14.4	SULFATE		35.00%	9.36	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/14/1986	19.1	SULFATE		35.00%	12.42	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1986	19.3	SULFATE		35.00%	12.55	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/8/1986	18.4	SULFATE		35.00%	11.96	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/1987	12.5	SULFATE		35.00%	8.13	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/16/1987	10.9	SULFATE		35.00%	7.09	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1987	12.7	SULFATE		35.00%	8.26	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1987	10.7	SULFATE		35.00%	6.96	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1987	15.1	SULFATE		35.00%	9.82	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/8/1987	15.2	SULFATE		35.00%	9.88	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/13/1987	6.3	SULFATE		35.00%	4.10	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/10/1987	10.6	SULFATE		35.00%	6.89	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/12/1987	14	SULFATE		35.00%	9.10	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/16/1987	19	SULFATE		35.00%	12.35	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/14/1987	28.1	SULFATE		35.00%	18.27	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/11/1988	24.4	SULFATE		35.00%	15.86	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/8/1988	14.3	SULFATE		35.00%	9.30	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1988	15.2	SULFATE		35.00%	9.88	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/11/1988	6.9	SULFATE		35.00%	4.49	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/9/1988	6.4	SULFATE		35.00%	4.16	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/13/1988	16.9	SULFATE		35.00%	10.99	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1988	17.3	SULFATE		35.00%	11.25	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/12/1988	10.8	SULFATE		35.00%	7.02	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/10/1988	11.7	SULFATE		35.00%	7.61	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/14/1988	9.8	SULFATE		35.00%	6.37	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/12/1988	10.7	SULFATE		35.00%	6.96	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/1989	16.4	SULFATE		35.00%	10.66	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/13/1989	20.7	SULFATE		35.00%	13.46	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1989	22.2	SULFATE		35.00%	14.43	10	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/10/1989	9	SULFATE		35.00%	5.85	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/8/1989	16.9	SULFATE		35.00%	10.99	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1989	5.3	SULFATE		35.00%	3.45	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/15/1989	11.2	SULFATE		35.00%	7.28	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/12/1989	22.4	SULFATE		35.00%	14.56	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/10/1989	21.2	SULFATE		35.00%	13.78	10	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1989	20	SULFATE		35.00%	13.00	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/11/1989	9.8	SULFATE		35.00%	6.37	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/8/1990	7.8	SULFATE		35.00%	5.07	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/12/1990	10.6	SULFATE		35.00%	6.89	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/12/1990	7.9	SULFATE		35.00%	5.14	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/9/1990	8.3	SULFATE		35.00%	5.40	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/14/1990	14.9	SULFATE		35.00%	9.69	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/11/1990	11.4	SULFATE		35.00%	7.41	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/9/1990	7.9	SULFATE		35.00%	5.14	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/13/1990	13.2	SULFATE		35.00%	8.58	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/1990	12.3	SULFATE		35.00%	8.00	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/15/1990	13.4	SULFATE		35.00%	8.71	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1990	15.6	SULFATE		35.00%	10.14	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/10/1990	16.8	SULFATE		35.00%	10.92	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/15/1991	13.5	SULFATE		35.00%	8.78	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/5/1991	4.8	SULFATE		35.00%	3.12	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/12/1991	13.5	SULFATE		35.00%	8.78	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/16/1991	12.6	SULFATE		35.00%	8.19	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/14/1991	4.5	SULFATE		35.00%	2.93	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/11/1991	5.7	SULFATE		35.00%	3.71	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/16/1991	8.5	SULFATE		35.00%	5.53	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/13/1991	10.1	SULFATE		35.00%	6.57	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/1991	15.8	SULFATE		35.00%	10.27	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/15/1991	15.7	SULFATE		35.00%	10.21	10	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/19/1991	19.5	SULFATE		35.00%	12.68	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/10/1991	19.2	SULFATE		35.00%	12.48	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/6/1992	17.7	SULFATE		35.00%	11.51	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/11/1992	15.2	SULFATE		35.00%	9.88	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/10/1992	4.1	SULFATE		35.00%	2.67	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/7/1992	16.4	SULFATE		35.00%	10.66	10	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/12/1992	15.3	SULFATE		35.00%	9.95	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/16/1992	16.8	SULFATE		35.00%	10.92	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/14/1992	8.6	SULFATE		35.00%	5.59	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/11/1992	8.2	SULFATE		35.00%	5.33	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/15/1992	5	SULFATE		35.00%	3.25	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/13/1992	12.4	SULFATE		35.00%	8.06	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1992	18.6	SULFATE		35.00%	12.09	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/15/1992	14.1	SULFATE		35.00%	9.17	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/1993	7.1	SULFATE		35.00%	4.62	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/9/1993	7.3	SULFATE		35.00%	4.75	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1993	8.8	SULFATE		35.00%	5.72	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1993	4.7	SULFATE		35.00%	3.06	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1993	6	SULFATE		35.00%	3.90	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/15/1993	9.3	SULFATE		35.00%	6.05	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/13/1993	14.2	SULFATE		35.00%	9.23	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/10/1993	10.6	SULFATE		35.00%	6.89	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/14/1993	12.7	SULFATE		35.00%	8.26	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/12/1993	14.3	SULFATE		35.00%	9.30	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/16/1993	14.7	SULFATE		35.00%	9.56	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/14/1993	17.9	SULFATE		35.00%	11.64	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/11/1994	38.2	SULFATE		35.00%	24.83	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/8/1994	17.7	SULFATE		35.00%	11.51	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/15/1994	12.4	SULFATE		35.00%	8.06	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/12/1994	10.9	SULFATE		35.00%	7.09	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/10/1994	5	SULFATE		35.00%	3.25	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/14/1994	6.6	SULFATE		35.00%	4.29	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/12/1994	9.5	SULFATE		35.00%	6.18	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/9/1994	10.8	SULFATE		35.00%	7.02	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/13/1994	8.2	SULFATE		35.00%	5.33	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/11/1994	8.5	SULFATE		35.00%	5.53	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/15/1994	8.5	SULFATE		35.00%	5.53	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/13/1994	18.3	SULFATE		35.00%	11.90	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/10/1995	21.4	SULFATE		35.00%	13.91	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/14/1995	18.4	SULFATE		35.00%	11.96	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1995	4.5	SULFATE		35.00%	2.93	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/4/1995	6.7	SULFATE		35.00%	4.36	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/9/1995	7.3	SULFATE		35.00%	4.75	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/13/1995	7.6	SULFATE		35.00%	4.94	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1995	11.2	SULFATE		35.00%	7.28	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/15/1995	12.4	SULFATE		35.00%	8.06	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/11/1995	9.7	SULFATE		35.00%	6.31	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/9/1995	11.7	SULFATE		35.00%	7.61	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1995	16	SULFATE		35.00%	10.40	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/11/1995	15.6	SULFATE		35.00%	10.14	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/1996	20.3	SULFATE		35.00%	13.20	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/12/1996	18.9	SULFATE		35.00%	12.29	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/11/1996	18.8	SULFATE		35.00%	12.22	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/8/1996	16.4	SULFATE		35.00%	10.66	10	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/13/1996	11.5	SULFATE		35.00%	7.48	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/10/1996	10.2	SULFATE		35.00%	6.63	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/8/1996	10.7	SULFATE		35.00%	6.96	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/12/1996	6.7	SULFATE		35.00%	4.36	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/9/1996	8.8	SULFATE		35.00%	5.72	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/14/1996	15.9	SULFATE		35.00%	10.34	10	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/18/1996	8.9	SULFATE		35.00%	5.79	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/9/1996	11.1	SULFATE		35.00%	7.22	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/6/1997	13.3	SULFATE		35.00%	8.65	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/17/1997	8.6	SULFATE		35.00%	5.59	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/10/1997	9.1	SULFATE		35.00%	5.92	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/14/1997	8	SULFATE		35.00%	5.20	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/12/1997	6.4	SULFATE		35.00%	4.16	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/9/1997	7.5	SULFATE		35.00%	4.88	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/14/1997	6.5	SULFATE		35.00%	4.23	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/11/1997	10.5	SULFATE		35.00%	6.83	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/8/1997	11.3	SULFATE		35.00%	7.35	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/13/1997	8.9	SULFATE		35.00%	5.79	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1997	22.3	SULFATE		35.00%	14.50	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/9/1997	21.9	SULFATE		35.00%	14.24	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/13/1998	4.6	SULFATE		35.00%	2.99	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/9/1998	14.8	SULFATE		35.00%	9.62	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1998	8.8	SULFATE		35.00%	5.72	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1998	14.8	SULFATE		35.00%	9.62	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1998	15	SULFATE		35.00%	9.75	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/2001	28.3	SULFATE		35.00%	18.40	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/13/2001	22.6	SULFATE		35.00%	14.69	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/13/2001	11.9	SULFATE		35.00%	7.74	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/9/2001	8.7	SULFATE		35.00%	5.66	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/8/2001	12.4	SULFATE		35.00%	8.06	10	1	0			

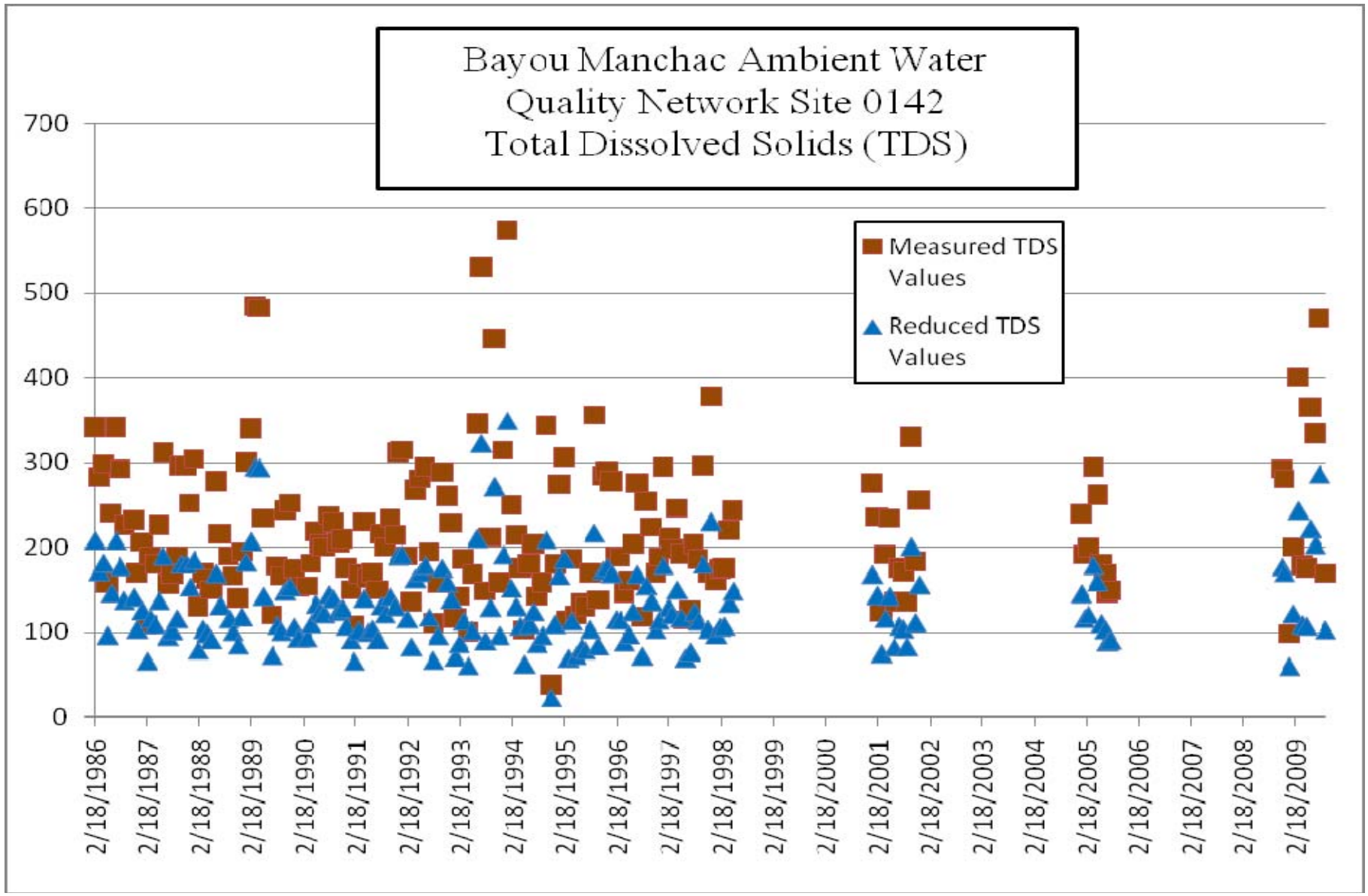
Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/12/2001	4.3	SULFATE		35.00%	2.80	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/17/2001	10.5	SULFATE		35.00%	6.83	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/14/2001	7.5	SULFATE		35.00%	4.88	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/2001	9	SULFATE		35.00%	5.85	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/9/2001	16.3	SULFATE		35.00%	10.60	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/6/2001	15.3	SULFATE		35.00%	9.95	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/3/2001	10.7	SULFATE		35.00%	6.96	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/2005	13.9	SULFATE	Unfiltered	35.00%	9.04	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/2/2005	13	SULFATE	Unfiltered	35.00%	8.45	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/1/2005	22.1	SULFATE	Unfiltered	35.00%	14.37	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/6/2005	12.7	SULFATE	Unfiltered	35.00%	8.26	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/4/2005	10.8	SULFATE	Unfiltered	35.00%	7.02	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/2/2005	12.8	SULFATE	Unfiltered	35.00%	8.32	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/28/2005	9.1	SULFATE	Unfiltered	35.00%	5.92	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/12/2005	8.8	SULFATE	Unfiltered	35.00%	5.72	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/2/2005	9.6	SULFATE	Unfiltered	35.00%	6.24	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/18/2008	12.3	SULFATE	Unfiltered	35.00%	8.00	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/2/2008	12.6	SULFATE	Unfiltered	35.00%	8.19	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/7/2009	7	SULFATE	Unfiltered	35.00%	4.55	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/3/2009	18.6	SULFATE	Unfiltered	35.00%	12.09	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/11/2009	17.6	SULFATE	Unfiltered	35.00%	11.44	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/7/2009	14.6	SULFATE		35.00%	9.49	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/5/2009	11	SULFATE		35.00%	7.15	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/2/2009	13	SULFATE		35.00%	8.45	10	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method	% Reduc-tion	Reduced SO_4 Value	Criteria	Counter	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria	% Exceeding Criteria
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/7/2009	12.1	SULFATE	Unfiltered	35.00%	7.87	10	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/4/2009	74.7	SULFATE	Unfiltered	35.00%	48.56	10	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/15/2009		SULFATE	Unfiltered	35.00%	0.00	10	1	0			
					70th percentile of reduced values			9.88						


Bayou Manchac Ambient Water Quality Network Site 0142 Total Dissolved Solids (TDS)
Measured TDS Values
Reduced TDS Values
700
600
500
400
300
200
100
0
2/18/1986
2/18/1987
2/18/1988
2/18/1989
2/18/1990
2/18/1991
2/18/1992
2/18/1993
2/18/1994
2/18/1995
2/18/1996
2/18/1997
2/18/1998
2/18/1999
2/18/2000
2/18/2001
2/18/2002
2/18/2003
2/18/2004
2/18/2005
2/18/2006
2/18/2007
2/18/2008
2/18/2009

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/18/1986	342	1	TOTAL DISSOLVED SOLIDS		39.00%	208.62	150	1	1	176	53	30%
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/18/1986	282	1	TOTAL DISSOLVED SOLIDS		39.00%	172.02	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/15/1986	298	1	TOTAL DISSOLVED SOLIDS		39.00%	181.78	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/13/1986	158	1	TOTAL DISSOLVED SOLIDS		39.00%	96.38	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/10/1986	240	1	TOTAL DISSOLVED SOLIDS		39.00%	146.40	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/15/1986	342	1	TOTAL DISSOLVED SOLIDS		39.00%	208.62	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/12/1986	292	1	TOTAL DISSOLVED SOLIDS		39.00%	178.12	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/9/1986	226	1	TOTAL DISSOLVED SOLIDS		39.00%	137.86	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1986	232	1	TOTAL DISSOLVED SOLIDS		39.00%	141.52	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/8/1986	170	1	TOTAL DISSOLVED SOLIDS		39.00%	103.70	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/1987	206	1	TOTAL DISSOLVED SOLIDS		39.00%	125.66	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/16/1987	108	0	TOTAL DISSOLVED SOLIDS		39.00%	65.88	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1987	190	1	TOTAL DISSOLVED SOLIDS		39.00%	115.90	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1987	180	1	TOTAL DISSOLVED SOLIDS		39.00%	109.80	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1987	226	1	TOTAL DISSOLVED SOLIDS		39.00%	137.86	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/8/1987	312	1	TOTAL DISSOLVED SOLIDS		39.00%	190.32	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/13/1987	156	1	TOTAL DISSOLVED SOLIDS		39.00%	95.16	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/10/1987	168	1	TOTAL DISSOLVED SOLIDS		39.00%	102.48	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/14/1987	190	1	TOTAL DISSOLVED SOLIDS		39.00%	115.90	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/12/1987	296	1	TOTAL DISSOLVED SOLIDS		39.00%	180.56	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/16/1987	296	1	TOTAL DISSOLVED SOLIDS		39.00%	180.56	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/14/1987	252	1	TOTAL DISSOLVED SOLIDS		39.00%	153.72	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/11/1988	304	1	TOTAL DISSOLVED SOLIDS		39.00%	185.44	150	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/8/1988	130	0	TOTAL DISSOLVED SOLIDS		39.00%	79.30	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1988	170	1	TOTAL DISSOLVED SOLIDS		39.00%	103.70	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/11/1988	162	1	TOTAL DISSOLVED SOLIDS		39.00%	98.82	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/9/1988	150	1	TOTAL DISSOLVED SOLIDS		39.00%	91.50	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/13/1988	278	1	TOTAL DISSOLVED SOLIDS		39.00%	169.58	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1988	216	1	TOTAL DISSOLVED SOLIDS		39.00%	131.76	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/12/1988	190	1	TOTAL DISSOLVED SOLIDS		39.00%	115.90	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/10/1988	166	1	TOTAL DISSOLVED SOLIDS		39.00%	101.26	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/14/1988	140	0	TOTAL DISSOLVED SOLIDS		39.00%	85.40	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/12/1988	194	1	TOTAL DISSOLVED SOLIDS		39.00%	118.34	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/1989	300	1	TOTAL DISSOLVED SOLIDS		39.00%	183.00	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/13/1989	340	1	TOTAL DISSOLVED SOLIDS		39.00%	207.40	150	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1989	484	1	TOTAL DISSOLVED SOLIDS		39.00%	295.24	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/10/1989	482	1	TOTAL DISSOLVED SOLIDS		39.00%	294.02	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/8/1989	234	1	TOTAL DISSOLVED SOLIDS		39.00%	142.74	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1989	120	0	TOTAL DISSOLVED SOLIDS		39.00%	73.20	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/15/1989	178	1	TOTAL DISSOLVED SOLIDS		39.00%	108.58	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/12/1989	166	1	TOTAL DISSOLVED SOLIDS		39.00%	101.26	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/10/1989	244	1	TOTAL DISSOLVED SOLIDS		39.00%	148.84	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1989	252	1	TOTAL DISSOLVED SOLIDS		39.00%	153.72	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/11/1989	174	1	TOTAL DISSOLVED SOLIDS		39.00%	106.14	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/8/1990	153	1	TOTAL DISSOLVED SOLIDS		39.00%	93.33	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/12/1990	154	1	TOTAL DISSOLVED SOLIDS		39.00%	93.94	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/9/1990	181	1	TOTAL DISSOLVED SOLIDS		39.00%	110.41	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/14/1990	219	1	TOTAL DISSOLVED SOLIDS		39.00%	133.59	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/11/1990	204	1	TOTAL DISSOLVED SOLIDS		39.00%	124.44	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/9/1990	200	1	TOTAL DISSOLVED SOLIDS		39.00%	122.00	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/13/1990	237	1	TOTAL DISSOLVED SOLIDS		39.00%	144.57	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/1990	229	1	TOTAL DISSOLVED SOLIDS		39.00%	139.69	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/15/1990	205	1	TOTAL DISSOLVED SOLIDS		39.00%	125.05	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1990	210	1	TOTAL DISSOLVED SOLIDS		39.00%	128.10	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/10/1990	176	1	TOTAL DISSOLVED SOLIDS		39.00%	107.36	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/15/1991	150	1	TOTAL DISSOLVED SOLIDS		39.00%	91.50	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/5/1991	108	0	TOTAL DISSOLVED SOLIDS		39.00%	65.88	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/12/1991	168	1	TOTAL DISSOLVED SOLIDS		39.00%	102.48	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/16/1991	230	1	TOTAL DISSOLVED SOLIDS		39.00%	140.30	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/14/1991	164	1	TOTAL DISSOLVED SOLIDS		39.00%	100.04	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/11/1991	170	1	TOTAL DISSOLVED SOLIDS		39.00%	103.70	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/16/1991	150	1	TOTAL DISSOLVED SOLIDS		39.00%	91.50	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/13/1991	216	1	TOTAL DISSOLVED SOLIDS		39.00%	131.76	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/1991	200	1	TOTAL DISSOLVED SOLIDS		39.00%	122.00	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/15/1991	234	1	TOTAL DISSOLVED SOLIDS		39.00%	142.74	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/19/1991	214	1	TOTAL DISSOLVED SOLIDS		39.00%	130.54	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/10/1991	312	1	TOTAL DISSOLVED SOLIDS		39.00%	190.32	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/6/1992	314	1	TOTAL DISSOLVED SOLIDS		39.00%	191.54	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/11/1992	190	1	TOTAL DISSOLVED SOLIDS		39.00%	115.90	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/10/1992	136	0	TOTAL DISSOLVED SOLIDS		39.00%	82.96	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/7/1992	268	1	TOTAL DISSOLVED SOLIDS		39.00%	163.48	150	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/12/1992	280	1	TOTAL DISSOLVED SOLIDS		39.00%	170.80	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/16/1992	294	1	TOTAL DISSOLVED SOLIDS		39.00%	179.34	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/14/1992	194	1	TOTAL DISSOLVED SOLIDS		39.00%	118.34	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/11/1992	110	0	TOTAL DISSOLVED SOLIDS		39.00%	67.10	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/15/1992	158	1	TOTAL DISSOLVED SOLIDS		39.00%	96.38	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/13/1992	288	1	TOTAL DISSOLVED SOLIDS		39.00%	175.68	150	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1992	260	1	TOTAL DISSOLVED SOLIDS		39.00%	158.60	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/15/1992	228	1	TOTAL DISSOLVED SOLIDS		39.00%	139.08	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/1993	116	0	TOTAL DISSOLVED SOLIDS		39.00%	70.76	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/9/1993	142	0	TOTAL DISSOLVED SOLIDS		39.00%	86.62	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1993	186	1	TOTAL DISSOLVED SOLIDS		39.00%	113.46	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1993	100	0	TOTAL DISSOLVED SOLIDS		39.00%	61.00	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1993	168	1	TOTAL DISSOLVED SOLIDS		39.00%	102.48	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/15/1993	346	1	TOTAL DISSOLVED SOLIDS		39.00%	211.06	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/13/1993	530	1	TOTAL DISSOLVED SOLIDS		39.00%	323.30	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/10/1993	148	0	TOTAL DISSOLVED SOLIDS		39.00%	90.28	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/14/1993	212	1	TOTAL DISSOLVED SOLIDS		39.00%	129.32	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/12/1993	446	1	TOTAL DISSOLVED SOLIDS		39.00%	272.06	150	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/16/1993	158	1	TOTAL DISSOLVED SOLIDS		39.00%	96.38	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/14/1993	314	1	TOTAL DISSOLVED SOLIDS		39.00%	191.54	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/11/1994	574	1	TOTAL DISSOLVED SOLIDS		39.00%	350.14	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/8/1994	250	1	TOTAL DISSOLVED SOLIDS		39.00%	152.50	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/15/1994	214	1	TOTAL DISSOLVED SOLIDS		39.00%	130.54	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/12/1994	176	1	TOTAL DISSOLVED SOLIDS		39.00%	107.36	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/10/1994	102	0	TOTAL DISSOLVED SOLIDS		39.00%	62.22	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/14/1994	180	1	TOTAL DISSOLVED SOLIDS		39.00%	109.80	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/12/1994	204	1	TOTAL DISSOLVED SOLIDS		39.00%	124.44	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/9/1994	142	0	TOTAL DISSOLVED SOLIDS		39.00%	86.62	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/13/1994	158	1	TOTAL DISSOLVED SOLIDS		39.00%	96.38	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/11/1994	344	1	TOTAL DISSOLVED SOLIDS		39.00%	209.84	150	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/15/1994	38	0	TOTAL DISSOLVED SOLIDS		39.00%	23.18	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/13/1994	180	1	TOTAL DISSOLVED SOLIDS		39.00%	109.80	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/10/1995	274	1	TOTAL DISSOLVED SOLIDS		39.00%	167.14	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/14/1995	306	1	TOTAL DISSOLVED SOLIDS		39.00%	186.66	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1995	114	0	TOTAL DISSOLVED SOLIDS		39.00%	69.54	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/4/1995	186	1	TOTAL DISSOLVED SOLIDS		39.00%	113.46	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/9/1995	120	0	TOTAL DISSOLVED SOLIDS		39.00%	73.20	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/13/1995	134	0	TOTAL DISSOLVED SOLIDS		39.00%	81.74	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1995	130	0	TOTAL DISSOLVED SOLIDS		39.00%	79.30	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/15/1995	170	1	TOTAL DISSOLVED SOLIDS		39.00%	103.70	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/11/1995	356	1	TOTAL DISSOLVED SOLIDS		39.00%	217.16	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/9/1995	138	0	TOTAL DISSOLVED SOLIDS		39.00%	84.18	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1995	284	1	TOTAL DISSOLVED SOLIDS		39.00%	173.24	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/11/1995	290	1	TOTAL DISSOLVED SOLIDS		39.00%	176.90	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/1996	278	1	TOTAL DISSOLVED SOLIDS		39.00%	169.58	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/12/1996	189	1	TOTAL DISSOLVED SOLIDS		39.00%	115.29	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/11/1996	188	1	TOTAL DISSOLVED SOLIDS		39.00%	114.68	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/8/1996	146	0	TOTAL DISSOLVED SOLIDS		39.00%	89.06	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/13/1996	160	1	TOTAL DISSOLVED SOLIDS		39.00%	97.60	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/10/1996	204	1	TOTAL DISSOLVED SOLIDS		39.00%	124.44	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/8/1996	276	1	TOTAL DISSOLVED SOLIDS		39.00%	168.36	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/12/1996	118	0	TOTAL DISSOLVED SOLIDS		39.00%	71.98	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/9/1996	254	1	TOTAL DISSOLVED SOLIDS		39.00%	154.94	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/14/1996	224	1	TOTAL DISSOLVED SOLIDS		39.00%	136.64	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/18/1996	170	1	TOTAL DISSOLVED SOLIDS		39.00%	103.70	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/9/1996	188	1	TOTAL DISSOLVED SOLIDS		39.00%	114.68	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/6/1997	294	1	TOTAL DISSOLVED SOLIDS		39.00%	179.34	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/17/1997	212	1	TOTAL DISSOLVED SOLIDS		39.00%	129.32	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/10/1997	198	1	TOTAL DISSOLVED SOLIDS		39.00%	120.78	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/14/1997	246	1	TOTAL DISSOLVED SOLIDS		39.00%	150.06	150	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/12/1997	192	1	TOTAL DISSOLVED SOLIDS		39.00%	117.12	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/9/1997	114	0	TOTAL DISSOLVED SOLIDS		39.00%	69.54	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/14/1997	126	0	TOTAL DISSOLVED SOLIDS		39.00%	76.86	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/11/1997	204	1	TOTAL DISSOLVED SOLIDS		39.00%	124.44	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/8/1997	186	1	TOTAL DISSOLVED SOLIDS		39.00%	113.46	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/13/1997	296	1	TOTAL DISSOLVED SOLIDS		39.00%	180.56	150	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1997	170	1	TOTAL DISSOLVED SOLIDS		39.00%	103.70	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/9/1997	378	1	TOTAL DISSOLVED SOLIDS		39.00%	230.58	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/13/1998	160	1	TOTAL DISSOLVED SOLIDS		39.00%	97.60	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/9/1998	174	1	TOTAL DISSOLVED SOLIDS		39.00%	106.14	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1998	176	1	TOTAL DISSOLVED SOLIDS		39.00%	107.36	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1998	220	1	TOTAL DISSOLVED SOLIDS		39.00%	134.20	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1998	244	1	TOTAL DISSOLVED SOLIDS		39.00%	148.84	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/2001	276	1	TOTAL DISSOLVED SOLIDS		39.00%	168.36	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/13/2001	236	1	TOTAL DISSOLVED SOLIDS		39.00%	143.96	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/13/2001	123	0	TOTAL DISSOLVED SOLIDS		39.00%	75.03	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/9/2001	191	1	TOTAL DISSOLVED SOLIDS		39.00%	116.51	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/8/2001	234	1	TOTAL DISSOLVED SOLIDS		39.00%	142.74	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/12/2001	136	0	TOTAL DISSOLVED SOLIDS		39.00%	82.96	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/17/2001	176	1	TOTAL DISSOLVED SOLIDS		39.00%	107.36	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/14/2001	171	1	TOTAL DISSOLVED SOLIDS		39.00%	104.31	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/2001	136	0	TOTAL DISSOLVED SOLIDS		39.00%	82.96	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/9/2001	330	1	TOTAL DISSOLVED SOLIDS		39.00%	201.30	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/6/2001	183	1	TOTAL DISSOLVED SOLIDS		39.00%	111.63	150	1	0			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/3/2001	256	1	TOTAL DISSOLVED SOLIDS		39.00%	156.16	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/2005	239	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	145.79	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/2/2005	191	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	116.51	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/1/2005	199	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	121.39	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/6/2005	294	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	179.34	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/4/2005	262	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	159.82	150	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/2/2005	181	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	110.41	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/28/2005	169	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	103.09	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/12/2005	146	0	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	89.06	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/2/2005	149	0	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	90.89	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/18/2008	292	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	178.12	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/2/2008	280	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	170.80	150	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/7/2009	98	0	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	59.78	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/3/2009	200	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	122.00	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/11/2009	400	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	244.00	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/7/2009	179	1	TOTAL DISSOLVED SOLIDS		39.00%	109.19	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/5/2009	176	1	TOTAL DISSOLVED SOLIDS		39.00%	107.36	150	1	0			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/2/2009	365	1	TOTAL DISSOLVED SOLIDS		39.00%	222.65	150	1	1			

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Exceeds Criteria (1=Yes, 2=No)	Para-meter	Filtration Method	% Reduc-tion	Reduced TDS Value	Criteria	Count-er	Exceeds Criteria (1=Yes, 2=No)	Total # of Samples	Total # Exceeding Criteria after Reductions	% Exceeding Criteria after Reductions
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/7/2009	334	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	203.74	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/4/2009	470	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	286.70	150	1	1			
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/15/2009	169	1	TOTAL DISSOLVED SOLIDS	Unfiltered	39.00%	103.09	150	1	0			

Appendix D – Data

Appendix D1 – Water Quality Analysis Results Samples Obtained During the Dissolved Oxygen TMDL Survey Conducted on June 5-8, 2007

Bayou Manchac 040201 Water Quality Data Summary																		
LEAU Site #	DEQ Site #	Chlorides	Sulfate	Hardness	Alkalinity	pH	Conductivity	Sodium	TOC	TP	TDS	Nit Nit	TKN	Ammonia	Color	Turbidity	TSS	Chl A
3473	BM01	35.6	12.9	95.1	103.0	7.67	337.0	33.0	17.1	0.59	220	ND	1.38	0.29	60	7.1	8.5	16.4
3472	BM02	33.8	6.9	92.1	97.7	7.60	310.0	36.3	15.2	0.59	200	0.07	1.37	0.34	60	12.5	17.5	26.1
142	BM03	36.3	10.5	98.9	130.0	7.80	378.0	46.1	13.8	0.51	230	0.1	1.18	0.41	42	10.7	10.5	14.2
3466	BM04	36.7	11.7	111.0	121.0	7.66	369.0	41.7	14.1	0.45	229	0.08	1.09	0.46	45	15.2	19.0	12.4
3469	BM06	39.5	11.4	93.1	127.0	7.79	387.0	44.7	16.8	0.50	250	0.07	1.47	0.38	50	11.8	14.0	10.2
3470	BM07	26.8	9.7	85.9	105.0	7.61	305.0	33.6	15.2	0.61	193	0.05	1.63	0.34	55	11.6	15.5	37.8
3462	BM08	12.9	4.5	39.5	45.8	7.47	142.0	14.3	7.5	0.26	101	ND	0.62	0.19	40	18.3	20.5	34.4
3467	WCDC	17.8	11.4	79.4	104.0	7.75	274.0	32.6	11.4	0.51	154	0.11	0.72	0.29	28	10.6	13.5	27.5
3461	AR01	8.0	2.1	20.6	17.9	7.44	71.9	7.2	3.7	0.09	54	0.06	0.28	ND	20	14.3	12.0	25.9

Site	Lab_ID	Sample_Type	Analysis_Name	Result	Units
0142	AK14521	TRG	TSS	10.5	ppm
0142	AK14521	TRG	TDS	230	ppm
0142	AK14521	TRG	Alkalinity	130	ppm
0142	AK14521	TRG	Turbidity	10.7	NTU
0142	AK14521	TRG	Specific Conductance	378	umhos/cm
0142	AK14521	TRG	True Color	42	PCU
0142	AK14521	TRG	Chloride by IC	36.3	ppm
0142	AK14521	TRG	Sulfate	10.5	ppm
0142	AK14522	TRG	Sodium	46.1	ppm
0142	AK14523	TRG	Hardness	98.9	ppm
0142	AK14523	TRG	Nitrate+Nitrite Nitrogen	0.10	ppm
0142	AK14523	TRG	TP	0.51	ppm
0142	AK14523	TRG	TKN	1.18	ppm
0142	AK14523	TRG	Ammonia-Nitrogen	0.41	ppm
0142	AK14524	TRG	TOC	13.8	ppm
0142	AK14525	TRG	pH, Ultimate BOD survey	7.80	pH units
0142	AK14525	TRG	TOC (60 Day BOD)	9.4	ppm
0142	AK14525	TRG	TKN (60 Day BOD)	0.39	ppm
0142	AK14525	TRG	NO2NO3 - Initial Reading	0.13	ppm
0142	AK14525	TRG	NO2NO3 - Reading 1	0.12	ppm
0142	AK14525	TRG	NO2NO3 - Reading 2	0.13	ppm
0142	AK14525	TRG	NO2NO3 - Reading 3	0.15	ppm
0142	AK14525	TRG	NO2NO3 - Reading 4	0.33	ppm
0142	AK14525	TRG	NO2NO3 - Reading 5	0.69	ppm
0142	AK14525	TRG	NO2NO3 - Reading 6	0.79	ppm
0142	AK14525	TRG	NO2NO3 - Reading 7	0.82	ppm
0142	AK14525	TRG	NO2NO3 - Reading 8	0.87	ppm
0142	AK14525	TRG	NO2NO3 - Reading 9	0.92	ppm
0142	AK14525	TRG	NO2NO3 - Reading 10	0.96	ppm
0142	AK14525	TRG	NO2NO3 - Final	1.02	ppm
0142	AK14525	TRG	Non-Filtered BOD 60 - Reading 1	0.7	ppm
0142	AK14525	TRG	Non-Filtered BOD 60 - Reading 2	2.5	ppm
0142	AK14525	TRG	Non-Filtered BOD 60 - Reading 3	3.0	ppm
0142	AK14525	TRG	Non-Filtered BOD 60 - Reading 4	4.4	ppm
0142	AK14525	TRG	Non-Filtered BOD 60 - Reading 5	6.9	ppm
0142	AK14525	TRG	Non-Filtered BOD 60 - Reading 6	7.9	ppm
0142	AK14525	TRG	Non-Filtered BOD 60 - Reading 7	8.9	ppm
0142	AK14525	TRG	Non-Filtered BOD 60 - Reading 8	10.2	ppm
0142	AK14525	TRG	Non-Filtered BOD 60 - Reading 9	11.5	ppm
0142	AK14525	TRG	Non-Filtered BOD 60 - Reading 10	12.4	ppm
0142	AK14525	TRG	Non-Filtered BOD 60 - Final	12.9	ppm
0142	AK14526	TRG	Chlorophyll A (calculated)	14.2	ug/L
0142	AK14526	TRG	Chlorophyll A (raw)	354	ug/L
0142	AK14526	TRG	Volume of sample, Chlorophyll A (raw)	250	ml
3461	AK14527	TRG	TSS	12.0	ppm
3461	AK14527	TRG	TDS	54.0	ppm
3461	AK14527	TRG	Alkalinity	17.9	ppm
3461	AK14527	TRG	Turbidity	14.3	NTU
3461	AK14527	TRG	Specific Conductance	71.9	umhos/cm

3461	AK14527	TRG	True Color	20	PCU
3461	AK14527	TRG	Chloride by IC	8.0	ppm
3461	AK14527	TRG	Sulfate	2.1	ppm
3461	AK14528	TRG	Sodium	7.2	ppm
3461	AK14529	TRG	Hardness	20.6	ppm
3461	AK14529	TRG	Nitrate+Nitrite Nitrogen	0.06	ppm
3461	AK14529	TRG	TP	0.09	ppm
3461	AK14529	TRG	TKN	0.28	ppm
3461	AK14529	TRG	Ammonia-Nitrogen	ND	ppm
3461	AK14530	TRG	TOC	3.7	ppm
3461	AK14531	TRG	pH, Ultimate BOD survey	7.44	pH units
3461	AK14531	TRG	TOC (60 Day BOD)	2.5	ppm
3461	AK14531	TRG	TKN (60 Day BOD)	ND	ppm
3461	AK14531	TRG	NO2NO3 - Initial Reading	0.07	ppm
3461	AK14531	TRG	NO2NO3 - Reading 1	0.07	ppm
3461	AK14531	TRG	NO2NO3 - Reading 2	0.08	ppm
3461	AK14531	TRG	NO2NO3 - Reading 3	0.08	ppm
3461	AK14531	TRG	NO2NO3 - Reading 4	0.08	ppm
3461	AK14531	TRG	NO2NO3 - Reading 5	0.08	ppm
3461	AK14531	TRG	NO2NO3 - Reading 6	0.12	ppm
3461	AK14531	TRG	NO2NO3 - Reading 7	0.24	ppm
3461	AK14531	TRG	NO2NO3 - Reading 8	0.28	ppm
3461	AK14531	TRG	NO2NO3 - Reading 9	0.32	ppm
3461	AK14531	TRG	NO2NO3 - Reading 10	0.34	ppm
3461	AK14531	TRG	NO2NO3 - Final	0.37	ppm
3461	AK14531	TRG	Non-Filtered BOD 60 - Reading 1	0.6	ppm
3461	AK14531	TRG	Non-Filtered BOD 60 - Reading 2	1.9	ppm
3461	AK14531	TRG	Non-Filtered BOD 60 - Reading 3	2.2	ppm
3461	AK14531	TRG	Non-Filtered BOD 60 - Reading 4	2.5	ppm
3461	AK14531	TRG	Non-Filtered BOD 60 - Reading 5	2.9	ppm
3461	AK14531	TRG	Non-Filtered BOD 60 - Reading 6	3.6	ppm
3461	AK14531	TRG	Non-Filtered BOD 60 - Reading 7	4.5	ppm
3461	AK14531	TRG	Non-Filtered BOD 60 - Reading 8	5.2	ppm
3461	AK14531	TRG	Non-Filtered BOD 60 - Reading 9	5.8	ppm
3461	AK14531	TRG	Non-Filtered BOD 60 - Reading 10	6.2	ppm
3461	AK14531	TRG	Non-Filtered BOD 60 - Final	6.4	ppm
3461	AK14532	TRG	Volume of sample, Chlorophyll A (raw)	250	ml
3461	AK14532	TRG	Chlorophyll A (calculated)	25.9	ug/L
3461	AK14532	TRG	Chlorophyll A (raw)	648	ug/L
3462	AK14533	TRG	TSS	20.5	ppm
3462	AK14533	TRG	TDS	101	ppm
3462	AK14533	TRG	Alkalinity	45.8	ppm
3462	AK14533	TRG	Turbidity	18.3	NTU
3462	AK14533	TRG	Specific Conductance	142	umhos/cm
3462	AK14533	TRG	True Color	40	PCU
3462	AK14533	TRG	Chloride by IC	12.9	ppm
3462	AK14533	TRG	Sulfate	4.5	ppm
3462	AK14534	TRG	Sodium	14.3	ppm
3462	AK14535	TRG	Hardness	39.5	ppm
3462	AK14535	TRG	Nitrate+Nitrite Nitrogen	ND	ppm
3462	AK14535	TRG	TP	0.26	ppm
3462	AK14535	TRG	TKN	0.62	ppm

3462	AK14535	TRG	Ammonia-Nitrogen	0.19	ppm
3462	AK14536	TRG	TOC	7.5	ppm
3462	AK14537	TRG	pH, Ultimate BOD survey	7.47	pH units
3462	AK14537	TRG	TOC (60 Day BOD)	6.1	ppm
3462	AK14537	TRG	TKN (60 Day BOD)	0.21	ppm
3462	AK14537	TRG	NO2NO3 - Initial Reading	0.06	ppm
3462	AK14537	TRG	NO2NO3 - Reading 1	0.06	ppm
3462	AK14537	TRG	NO2NO3 - Reading 2	0.07	ppm
3462	AK14537	TRG	NO2NO3 - Reading 3	0.07	ppm
3462	AK14537	TRG	NO2NO3 - Reading 4	0.15	ppm
3462	AK14537	TRG	NO2NO3 - Reading 5	0.34	ppm
3462	AK14537	TRG	NO2NO3 - Reading 6	0.39	ppm
3462	AK14537	TRG	NO2NO3 - Reading 7	0.42	ppm
3462	AK14537	TRG	NO2NO3 - Reading 8	0.48	ppm
3462	AK14537	TRG	NO2NO3 - Reading 9	0.52	ppm
3462	AK14537	TRG	NO2NO3 - Reading 10	0.55	ppm
3462	AK14537	TRG	NO2NO3 - Final	0.58	ppm
3462	AK14537	TRG	Non-Filtered BOD 60 - Reading 1	0.8	ppm
3462	AK14537	TRG	Non-Filtered BOD 60 - Reading 2	2.8	ppm
3462	AK14537	TRG	Non-Filtered BOD 60 - Reading 3	3.3	ppm
3462	AK14537	TRG	Non-Filtered BOD 60 - Reading 4	4.1	ppm
3462	AK14537	TRG	Non-Filtered BOD 60 - Reading 5	5.7	ppm
3462	AK14537	TRG	Non-Filtered BOD 60 - Reading 6	6.5	ppm
3462	AK14537	TRG	Non-Filtered BOD 60 - Reading 7	7.3	ppm
3462	AK14537	TRG	Non-Filtered BOD 60 - Reading 8	8.3	ppm
3462	AK14537	TRG	Non-Filtered BOD 60 - Reading 9	9.1	ppm
3462	AK14537	TRG	Non-Filtered BOD 60 - Reading 10	9.8	ppm
3462	AK14537	TRG	Non-Filtered BOD 60 - Final	10.2	ppm
3462	AK14538	TRG	Chlorophyll A (calculated)	34.4	ug/L
3462	AK14538	TRG	Chlorophyll A (raw)	859	ug/L
3462	AK14538	TRG	Volume of sample, Chlorophyll A (raw)	250	ml
3466	AK14539	TRG	TSS	19.0	ppm
3466	AK14539	TRG	TDS	229	ppm
3466	AK14539	TRG	Alkalinity	121	ppm
3466	AK14539	TRG	Turbidity	15.2	NTU
3466	AK14539	TRG	Specific Conductance	369	umhos/cm
3466	AK14539	TRG	True Color	45	PCU
3466	AK14539	TRG	Chloride by IC	36.7	ppm
3466	AK14539	TRG	Sulfate	11.7	ppm
3466	AK14540	TRG	Sodium	41.7	ppm
3466	AK14541	TRG	Hardness	111	ppm
3466	AK14541	TRG	Nitrate+Nitrite Nitrogen	0.08	ppm
3466	AK14541	TRG	TP	0.45	ppm
3466	AK14541	TRG	TKN	1.09	ppm
3466	AK14541	TRG	Ammonia-Nitrogen	0.46	ppm
3466	AK14542	TRG	TOC	14.1	ppm
3466	AK14543	TRG	pH, Ultimate BOD survey	7.66	pH units
3466	AK14543	TRG	TOC (60 Day BOD)	12.7	ppm
3466	AK14543	TRG	TKN (60 Day BOD)	0.51	ppm
3466	AK14543	TRG	NO2NO3 - Initial Reading	0.10	ppm
3466	AK14543	TRG	NO2NO3 - Reading 1	0.09	ppm
3466	AK14543	TRG	NO2NO3 - Reading 2	0.10	ppm

3466	AK14543	TRG	NO2NO3 - Reading 3	0.13	ppm
3466	AK14543	TRG	NO2NO3 - Reading 4	0.37	ppm
3466	AK14543	TRG	NO2NO3 - Reading 5	0.74	ppm
3466	AK14543	TRG	NO2NO3 - Reading 6	0.80	ppm
3466	AK14543	TRG	NO2NO3 - Reading 7	0.84	ppm
3466	AK14543	TRG	NO2NO3 - Reading 8	0.90	ppm
3466	AK14543	TRG	NO2NO3 - Reading 9	0.95	ppm
3466	AK14543	TRG	NO2NO3 - Reading 10	1.00	ppm
3466	AK14543	TRG	NO2NO3 - Final	1.04	ppm
3466	AK14543	TRG	Non-Filtered BOD 60 - Reading 1	0.8	ppm
3466	AK14543	TRG	Non-Filtered BOD 60 - Reading 2	2.5	ppm
3466	AK14543	TRG	Non-Filtered BOD 60 - Reading 3	3.0	ppm
3466	AK14543	TRG	Non-Filtered BOD 60 - Reading 4	4.8	ppm
3466	AK14543	TRG	Non-Filtered BOD 60 - Reading 5	7.2	ppm
3466	AK14543	TRG	Non-Filtered BOD 60 - Reading 6	8.1	ppm
3466	AK14543	TRG	Non-Filtered BOD 60 - Reading 7	9.2	ppm
3466	AK14543	TRG	Non-Filtered BOD 60 - Reading 8	10.8	ppm
3466	AK14543	TRG	Non-Filtered BOD 60 - Reading 9	12.3	ppm
3466	AK14543	TRG	Non-Filtered BOD 60 - Reading 10	13.2	ppm
3466	AK14543	TRG	Non-Filtered BOD 60 - Final	13.9	ppm
3466	AK14544	TRG	Volume of sample, Chlorophyll A (raw)	250	ml
3466	AK14544	TRG	Chlorophyll A (calculated)	12.4	ug/L
3466	AK14544	TRG	Chlorophyll A (raw)	310	ug/L
3467	AK14545	TRG	TSS	13.5	ppm
3467	AK14545	TRG	TDS	154	ppm
3467	AK14545	TRG	Alkalinity	104	ppm
3467	AK14545	TRG	Turbidity	10.6	NTU
3467	AK14545	TRG	Specific Conductance	274	umhos/cm
3467	AK14545	TRG	True Color	28	PCU
3467	AK14545	TRG	Chloride by IC	17.8	ppm
3467	AK14545	TRG	Sulfate	11.4	ppm
3467	AK14546	TRG	Sodium	32.6	ppm
3467	AK14547	TRG	Hardness	79.4	ppm
3467	AK14547	TRG	Nitrate+Nitrite Nitrogen	0.11	ppm
3467	AK14547	TRG	TP	0.51	ppm
3467	AK14547	TRG	TKN	0.72	ppm
3467	AK14547	TRG	Ammonia-Nitrogen	0.29	ppm
3467	AK14548	TRG	TOC	11.4	ppm
3467	AK14549	TRG	pH, Ultimate BOD survey	7.75	pH units
3467	AK14549	TRG	TOC (60 Day BOD)	7.5	ppm
3467	AK14549	TRG	TKN (60 Day BOD)	0.34	ppm
3467	AK14549	TRG	NO2NO3 - Initial Reading	0.11	ppm
3467	AK14549	TRG	NO2NO3 - Reading 1	0.12	ppm
3467	AK14549	TRG	NO2NO3 - Reading 2	0.13	ppm
3467	AK14549	TRG	NO2NO3 - Reading 3	0.15	ppm
3467	AK14549	TRG	NO2NO3 - Reading 4	0.23	ppm
3467	AK14549	TRG	NO2NO3 - Reading 5	0.54	ppm
3467	AK14549	TRG	NO2NO3 - Reading 6	0.63	ppm
3467	AK14549	TRG	NO2NO3 - Reading 7	0.66	ppm
3467	AK14549	TRG	NO2NO3 - Reading 8	0.70	ppm
3467	AK14549	TRG	NO2NO3 - Reading 9	0.74	ppm
3467	AK14549	TRG	NO2NO3 - Reading 10	0.77	ppm

3467	AK14549	TRG	NO2NO3 - Final	0.82	ppm
3467	AK14549	TRG	Non-Filtered BOD 60 - Reading 1	0.8	ppm
3467	AK14549	TRG	Non-Filtered BOD 60 - Reading 2	2.6	ppm
3467	AK14549	TRG	Non-Filtered BOD 60 - Reading 3	3.2	ppm
3467	AK14549	TRG	Non-Filtered BOD 60 - Reading 4	4.3	ppm
3467	AK14549	TRG	Non-Filtered BOD 60 - Reading 5	6.5	ppm
3467	AK14549	TRG	Non-Filtered BOD 60 - Reading 6	7.5	ppm
3467	AK14549	TRG	Non-Filtered BOD 60 - Reading 7	8.4	ppm
3467	AK14549	TRG	Non-Filtered BOD 60 - Reading 8	9.6	ppm
3467	AK14549	TRG	Non-Filtered BOD 60 - Reading 9	10.8	ppm
3467	AK14549	TRG	Non-Filtered BOD 60 - Reading 10	11.6	ppm
3467	AK14549	TRG	Non-Filtered BOD 60 - Final	12.2	ppm
3467	AK14550	TRG	Volume of sample, Chlorophyll A (raw)	250	ml
3467	AK14550	TRG	Chlorophyll A (raw)	688	ug/L
3467	AK14550	TRG	Chlorophyll A (calculated)	27.5	ug/L
3469	AK14551	TRG	TSS	14.0	ppm
3469	AK14551	TRG	TDS	250	ppm
3469	AK14551	TRG	Alkalinity	127	ppm
3469	AK14551	TRG	Turbidity	11.8	NTU
3469	AK14551	TRG	Specific Conductance	387	umhos/cm
3469	AK14551	TRG	True Color	50	PCU
3469	AK14551	TRG	Chloride by IC	39.5	ppm
3469	AK14551	TRG	Sulfate	11.4	ppm
3469	AK14552	TRG	Sodium	44.7	ppm
3469	AK14553	TRG	Hardness	93.1	ppm
3469	AK14553	TRG	Nitrate+Nitrite Nitrogen	0.07	ppm
3469	AK14553	TRG	TP	0.50	ppm
3469	AK14553	TRG	TKN	1.47	ppm
3469	AK14553	TRG	Ammonia-Nitrogen	0.38	ppm
3469	AK14554	TRG	TOC	16.8	ppm
3469	AK14555	TRG	pH, Ultimate BOD survey	7.79	pH units
3469	AK14555	TRG	TOC (60 Day BOD)	10.2	ppm
3469	AK14555	TRG	TKN (60 Day BOD)	0.57	ppm
3469	AK14555	TRG	NO2NO3 - Initial Reading	0.08	ppm
3469	AK14555	TRG	NO2NO3 - Reading 1	0.08	ppm
3469	AK14555	TRG	NO2NO3 - Reading 2	0.09	ppm
3469	AK14555	TRG	NO2NO3 - Reading 3	0.12	ppm
3469	AK14555	TRG	NO2NO3 - Reading 4	0.31	ppm
3469	AK14555	TRG	NO2NO3 - Reading 5	0.68	ppm
3469	AK14555	TRG	NO2NO3 - Reading 6	0.76	ppm
3469	AK14555	TRG	NO2NO3 - Reading 7	0.80	ppm
3469	AK14555	TRG	NO2NO3 - Reading 8	0.86	ppm
3469	AK14555	TRG	NO2NO3 - Reading 9	0.91	ppm
3469	AK14555	TRG	NO2NO3 - Reading 10	0.97	ppm
3469	AK14555	TRG	NO2NO3 - Final	1.01	ppm
3469	AK14555	TRG	Non-Filtered BOD 60 - Reading 1	1.0	ppm
3469	AK14555	TRG	Non-Filtered BOD 60 - Reading 2	3.5	ppm
3469	AK14555	TRG	Non-Filtered BOD 60 - Reading 3	4.2	ppm
3469	AK14555	TRG	Non-Filtered BOD 60 - Reading 4	5.8	ppm
3469	AK14555	TRG	Non-Filtered BOD 60 - Reading 5	8.3	ppm
3469	AK14555	TRG	Non-Filtered BOD 60 - Reading 6	9.4	ppm
3469	AK14555	TRG	Non-Filtered BOD 60 - Reading 7	10.5	ppm

3469	AK14555	TRG	Non-Filtered BOD 60 - Reading 8	12.1	ppm
3469	AK14555	TRG	Non-Filtered BOD 60 - Reading 9	13.7	ppm
3469	AK14555	TRG	Non-Filtered BOD 60 - Reading 10	14.8	ppm
3469	AK14555	TRG	Non-Filtered BOD 60 - Final	15.4	ppm
3469	AK14556	TRG	Volume of sample, Chlorophyll A (raw)	250	ml
3469	AK14556	TRG	Chlorophyll A (calculated)	10.2	ug/L
3469	AK14556	TRG	Chlorophyll A (raw)	256	ug/L
3470	AK14557	TRG	TSS	15.5	ppm
3470	AK14557	TRG	TDS	193	ppm
3470	AK14557	TRG	Alkalinity	105	ppm
3470	AK14557	TRG	Turbidity	11.6	NTU
3470	AK14557	TRG	Specific Conductance	305	umhos/cm
3470	AK14557	TRG	True Color	55	PCU
3470	AK14557	TRG	Chloride by IC	26.8	ppm
3470	AK14557	TRG	Sulfate	9.7	ppm
3470	AK14558	TRG	Sodium	33.6	ppm
3470	AK14559	TRG	Hardness	85.9	ppm
3470	AK14559	TRG	Nitrate+Nitrite Nitrogen	0.05	ppm
3470	AK14559	TRG	TP	0.61	ppm
3470	AK14559	TRG	TKN	1.63	ppm
3470	AK14559	TRG	Ammonia-Nitrogen	0.34	ppm
3470	AK14560	TRG	TOC	15.2	ppm
3470	AK14561	TRG	pH, Ultimate BOD survey	7.61	pH units
3470	AK14561	TRG	TOC (60 Day BOD)	9.9	ppm
3470	AK14561	TRG	TKN (60 Day BOD)	0.60	ppm
3470	AK14561	TRG	NO2NO3 - Initial Reading	0.06	ppm
3470	AK14561	TRG	NO2NO3 - Reading 1	0.06	ppm
3470	AK14561	TRG	NO2NO3 - Reading 2	0.06	ppm
3470	AK14561	TRG	NO2NO3 - Reading 3	0.09	ppm
3470	AK14561	TRG	NO2NO3 - Reading 4	0.24	ppm
3470	AK14561	TRG	NO2NO3 - Reading 5	0.68	ppm
3470	AK14561	TRG	NO2NO3 - Reading 6	0.77	ppm
3470	AK14561	TRG	NO2NO3 - Reading 7	0.81	ppm
3470	AK14561	TRG	NO2NO3 - Reading 8	0.89	ppm
3470	AK14561	TRG	NO2NO3 - Reading 9	0.92	ppm
3470	AK14561	TRG	NO2NO3 - Reading 10	0.99	ppm
3470	AK14561	TRG	NO2NO3 - Final	1.05	ppm
3470	AK14561	TRG	Non-Filtered BOD 60 - Reading 1	1.3	ppm
3470	AK14561	TRG	Non-Filtered BOD 60 - Reading 2	4.2	ppm
3470	AK14561	TRG	Non-Filtered BOD 60 - Reading 3	4.9	ppm
3470	AK14561	TRG	Non-Filtered BOD 60 - Reading 4	6.5	ppm
3470	AK14561	TRG	Non-Filtered BOD 60 - Reading 5	9.4	ppm
3470	AK14561	TRG	Non-Filtered BOD 60 - Reading 6	10.5	ppm
3470	AK14561	TRG	Non-Filtered BOD 60 - Reading 7	11.7	ppm
3470	AK14561	TRG	Non-Filtered BOD 60 - Reading 8	13.6	ppm
3470	AK14561	TRG	Non-Filtered BOD 60 - Reading 9	15.3	ppm
3470	AK14561	TRG	Non-Filtered BOD 60 - Reading 10	16.3	ppm
3470	AK14561	TRG	Non-Filtered BOD 60 - Final	17.1	ppm
3470	AK14562	TRG	Chlorophyll A (calculated)	37.8	ug/L
3470	AK14562	TRG	Chlorophyll A (raw)	944	ug/L
3470	AK14562	TRG	Volume of sample, Chlorophyll A (raw)	250	ml
3472	AK14563	TRG	TSS	17.5	ppm

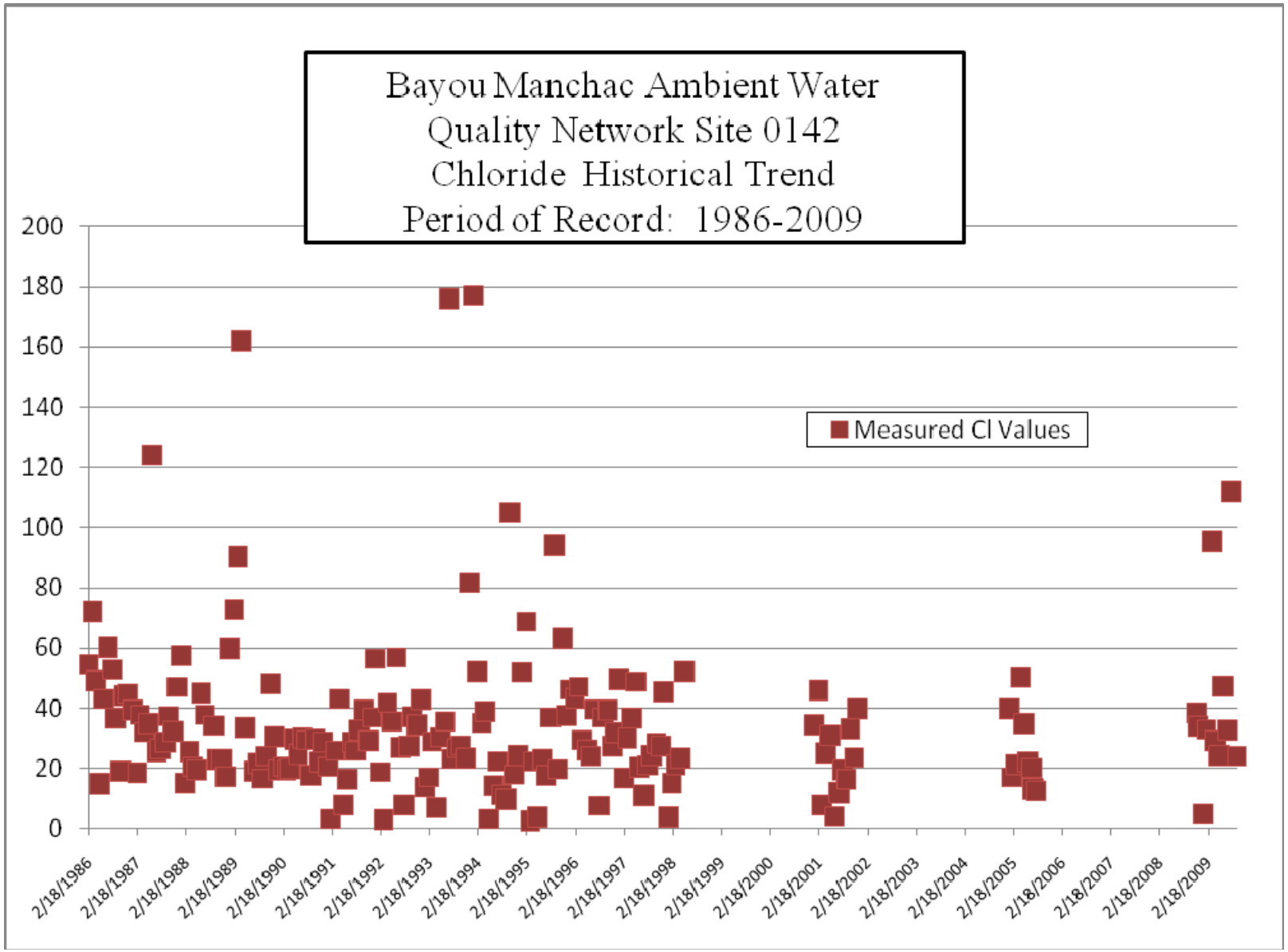
3472	AK14563	TRG	TDS	200	ppm
3472	AK14563	TRG	Alkalinity	97.7	ppm
3472	AK14563	TRG	Turbidity	12.5	NTU
3472	AK14563	TRG	Specific Conductance	310	umhos/cm
3472	AK14563	TRG	True Color	60	PCU
3472	AK14563	TRG	Chloride by IC	33.8	ppm
3472	AK14563	TRG	Sulfate	6.9	ppm
3472	AK14564	TRG	Sodium	36.3	ppm
3472	AK14565	TRG	Hardness	92.1	ppm
3472	AK14565	TRG	Nitrate+Nitrite Nitrogen	0.07	ppm
3472	AK14565	TRG	TP	0.59	ppm
3472	AK14565	TRG	TKN	1.37	ppm
3472	AK14565	TRG	Ammonia-Nitrogen	0.34	ppm
3472	AK14566	TRG	TOC	15.2	ppm
3472	AK14567	TRG	pH, Ultimate BOD survey	7.60	pH units
3472	AK14567	TRG	TOC (60 Day BOD)	9.6	ppm
3472	AK14567	TRG	TKN (60 Day BOD)	0.54	ppm
3472	AK14567	TRG	NO2NO3 - Initial Reading	0.07	ppm
3472	AK14567	TRG	NO2NO3 - Reading 1	0.08	ppm
3472	AK14567	TRG	NO2NO3 - Reading 2	0.10	ppm
3472	AK14567	TRG	NO2NO3 - Reading 3	0.12	ppm
3472	AK14567	TRG	NO2NO3 - Reading 4	0.34	ppm
3472	AK14567	TRG	NO2NO3 - Reading 5	0.53	ppm
3472	AK14567	TRG	NO2NO3 - Reading 6	0.61	ppm
3472	AK14567	TRG	NO2NO3 - Reading 7	0.66	ppm
3472	AK14567	TRG	NO2NO3 - Reading 8	0.72	ppm
3472	AK14567	TRG	NO2NO3 - Reading 9	0.74	ppm
3472	AK14567	TRG	NO2NO3 - Reading 10	0.79	ppm
3472	AK14567	TRG	NO2NO3 - Final	0.84	ppm
3472	AK14567	TRG	Non-Filtered BOD 60 - Reading 1	0.9	ppm
3472	AK14567	TRG	Non-Filtered BOD 60 - Reading 2	2.8	ppm
3472	AK14567	TRG	Non-Filtered BOD 60 - Reading 3	3.5	ppm
3472	AK14567	TRG	Non-Filtered BOD 60 - Reading 4	5.1	ppm
3472	AK14567	TRG	Non-Filtered BOD 60 - Reading 5	6.8	ppm
3472	AK14567	TRG	Non-Filtered BOD 60 - Reading 6	7.9	ppm
3472	AK14567	TRG	Non-Filtered BOD 60 - Reading 7	9.1	ppm
3472	AK14567	TRG	Non-Filtered BOD 60 - Reading 8	10.7	ppm
3472	AK14567	TRG	Non-Filtered BOD 60 - Reading 9	12.1	ppm
3472	AK14567	TRG	Non-Filtered BOD 60 - Reading 10	13.1	ppm
3472	AK14567	TRG	Non-Filtered BOD 60 - Final	13.9	ppm
3472	AK14568	TRG	Chlorophyll A (raw)	652	ug/L
3472	AK14568	TRG	Volume of sample, Chlorophyll A (raw)	250	ml
3472	AK14568	TRG	Chlorophyll A (calculated)	26.1	ug/L
3473	AK14569	FB	TSS	ND	ppm
3473	AK14569	FB	TDS	ND	ppm
3473	AK14569	FB	Alkalinity	ND	ppm
3473	AK14569	FB	Turbidity	ND	NTU
3473	AK14569	FB	Specific Conductance	ND	umhos/cm
3473	AK14569	FB	True Color	ND	PCU
3473	AK14569	FB	Chloride by IC	ND	ppm
3473	AK14569	FB	Sulfate	ND	ppm
3473	AK14570	FB	Sodium	ND	ppm

3473	AK14571	FB	Hardness	ND	ppm
3473	AK14571	FB	Nitrate+Nitrite Nitrogen	ND	ppm
3473	AK14571	FB	TP	ND	ppm
3473	AK14571	FB	TKN	ND	ppm
3473	AK14571	FB	Ammonia-Nitrogen	ND	ppm
3473	AK14572	FB	TOC	ND	ppm
3473	AK14573	FB	pH, Ultimate BOD survey	7.44	pH units
3473	AK14573	FB	TOC (60 Day BOD)	ND	ppm
3473	AK14573	FB	TKN (60 Day BOD)	ND	ppm
3473	AK14573	FB	NO2NO3 - Initial Reading	ND	ppm
3473	AK14573	FB	NO2NO3 - Reading 1	ND	ppm
3473	AK14573	FB	NO2NO3 - Reading 2	0.05	ppm
3473	AK14573	FB	NO2NO3 - Reading 3	ND	ppm
3473	AK14573	FB	NO2NO3 - Reading 4	ND	ppm
3473	AK14573	FB	NO2NO3 - Reading 5	ND	ppm
3473	AK14573	FB	NO2NO3 - Reading 6	ND	ppm
3473	AK14573	FB	NO2NO3 - Reading 7	ND	ppm
3473	AK14573	FB	NO2NO3 - Reading 8	ND	ppm
3473	AK14573	FB	NO2NO3 - Reading 9	ND	ppm
3473	AK14573	FB	NO2NO3 - Reading 10	ND	ppm
3473	AK14573	FB	NO2NO3 - Final	ND	ppm
3473	AK14573	FB	Non-Filtered BOD 60 - Reading 1	0.1	ppm
3473	AK14573	FB	Non-Filtered BOD 60 - Reading 2	0.4	ppm
3473	AK14573	FB	Non-Filtered BOD 60 - Reading 3	0.3	ppm
3473	AK14573	FB	Non-Filtered BOD 60 - Reading 4	0.3	ppm
3473	AK14573	FB	Non-Filtered BOD 60 - Reading 5	0.3	ppm
3473	AK14573	FB	Non-Filtered BOD 60 - Reading 6	0.4	ppm
3473	AK14573	FB	Non-Filtered BOD 60 - Reading 7	0.5	ppm
3473	AK14573	FB	Non-Filtered BOD 60 - Reading 8	0.5	ppm
3473	AK14573	FB	Non-Filtered BOD 60 - Reading 9	0.6	ppm
3473	AK14573	FB	Non-Filtered BOD 60 - Reading 10	0.7	ppm
3473	AK14573	FB	Non-Filtered BOD 60 - Final	0.7	ppm
3473	AK14575	TRG	TSS	8.5	ppm
3473	AK14575	TRG	TDS	220	ppm
3473	AK14575	TRG	Alkalinity	103	ppm
3473	AK14575	TRG	Turbidity	7.1	NTU
3473	AK14575	TRG	Specific Conductance	337	umhos/cm
3473	AK14575	TRG	True Color	60	PCU
3473	AK14575	TRG	Chloride by IC	35.6	ppm
3473	AK14575	TRG	Sulfate	12.9	ppm
3473	AK14576	TRG	Sodium	33.0	ppm
3473	AK14577	TRG	Hardness	95.1	ppm
3473	AK14577	TRG	Nitrate+Nitrite Nitrogen	ND	ppm
3473	AK14577	TRG	TP	0.59	ppm
3473	AK14577	TRG	TKN	1.38	ppm
3473	AK14577	TRG	Ammonia-Nitrogen	0.29	ppm
3473	AK14578	TRG	TOC	17.1	ppm
3473	AK14579	TRG	pH, Ultimate BOD survey	7.67	pH units
3473	AK14579	TRG	TOC (60 Day BOD)	13.4	ppm
3473	AK14579	TRG	TKN (60 Day BOD)	0.84	ppm
3473	AK14579	TRG	NO2NO3 - Initial Reading	0.05	ppm
3473	AK14579	TRG	NO2NO3 - Reading 1	ND	ppm

3473	AK14579	TRG	NO2NO3 - Reading 2	0.06	ppm
3473	AK14579	TRG	NO2NO3 - Reading 3	0.06	ppm
3473	AK14579	TRG	NO2NO3 - Reading 4	0.14	ppm
3473	AK14579	TRG	NO2NO3 - Reading 5	0.39	ppm
3473	AK14579	TRG	NO2NO3 - Reading 6	0.54	ppm
3473	AK14579	TRG	NO2NO3 - Reading 7	0.58	ppm
3473	AK14579	TRG	NO2NO3 - Reading 8	0.65	ppm
3473	AK14579	TRG	NO2NO3 - Reading 9	0.69	ppm
3473	AK14579	TRG	NO2NO3 - Reading 10	0.74	ppm
3473	AK14579	TRG	NO2NO3 - Final	0.78	ppm
3473	AK14579	TRG	Non-Filtered BOD 60 - Reading 1	0.8	ppm
3473	AK14579	TRG	Non-Filtered BOD 60 - Reading 2	2.5	ppm
3473	AK14579	TRG	Non-Filtered BOD 60 - Reading 3	2.9	ppm
3473	AK14579	TRG	Non-Filtered BOD 60 - Reading 4	4.0	ppm
3473	AK14579	TRG	Non-Filtered BOD 60 - Reading 5	5.8	ppm
3473	AK14579	TRG	Non-Filtered BOD 60 - Reading 6	7.2	ppm
3473	AK14579	TRG	Non-Filtered BOD 60 - Reading 7	8.2	ppm
3473	AK14579	TRG	Non-Filtered BOD 60 - Reading 8	10.0	ppm
3473	AK14579	TRG	Non-Filtered BOD 60 - Reading 9	11.7	ppm
3473	AK14579	TRG	Non-Filtered BOD 60 - Reading 10	12.8	ppm
3473	AK14579	TRG	Non-Filtered BOD 60 - Final	13.6	ppm
3473	AK14580	TRG	Chlorophyll A (raw)	410	ug/L
3473	AK14580	TRG	Volume of sample, Chlorophyll A (raw)	250	ml
3473	AK14580	TRG	Chlorophyll A (calculated)	16.4	ug/L
3473	AK14581	FD	TSS	8.0	ppm
3473	AK14581	FD	TDS	224	ppm
3473	AK14581	FD	Alkalinity	104	ppm
3473	AK14581	FD	Turbidity	7.3	NTU
3473	AK14581	FD	Specific Conductance	338	umhos/cm
3473	AK14581	FD	True Color	60	PCU
3473	AK14581	FD	Chloride by IC	35.6	ppm
3473	AK14581	FD	Sulfate	12.9	ppm
3473	AK14582	FD	Sodium	34.3	ppm
3473	AK14583	FD	Hardness	103	ppm
3473	AK14583	FD	Nitrate+Nitrite Nitrogen	ND	ppm
3473	AK14583	FD	TP	0.56	ppm
3473	AK14583	FD	TKN	1.49	ppm
3473	AK14583	FD	Ammonia-Nitrogen	0.31	ppm
3473	AK14584	FD	TOC	18.6	ppm
3473	AK14585	FD	pH, Ultimate BOD survey	7.73	pH units
3473	AK14585	FD	TOC (60 Day BOD)	11.9	ppm
3473	AK14585	FD	TKN (60 Day BOD)	0.93	ppm
3473	AK14585	FD	NO2NO3 - Initial Reading	0.05	ppm
3473	AK14585	FD	NO2NO3 - Reading 1	0.05	ppm
3473	AK14585	FD	NO2NO3 - Reading 2	0.06	ppm
3473	AK14585	FD	NO2NO3 - Reading 3	0.06	ppm
3473	AK14585	FD	NO2NO3 - Reading 4	0.14	ppm
3473	AK14585	FD	NO2NO3 - Reading 5	0.41	ppm
3473	AK14585	FD	NO2NO3 - Reading 6	0.58	ppm
3473	AK14585	FD	NO2NO3 - Reading 7	0.63	ppm
3473	AK14585	FD	NO2NO3 - Reading 8	0.71	ppm
3473	AK14585	FD	NO2NO3 - Reading 9	0.75	ppm

3473	AK14585	FD	NO2NO3 - Reading 10	0.78	ppm
3473	AK14585	FD	NO2NO3 - Final	0.84	ppm
3473	AK14585	FD	Non-Filtered BOD 60 - Reading 1	0.9	ppm
3473	AK14585	FD	Non-Filtered BOD 60 - Reading 2	2.8	ppm
3473	AK14585	FD	Non-Filtered BOD 60 - Reading 3	3.3	ppm
3473	AK14585	FD	Non-Filtered BOD 60 - Reading 4	4.3	ppm
3473	AK14585	FD	Non-Filtered BOD 60 - Reading 5	6.2	ppm
3473	AK14585	FD	Non-Filtered BOD 60 - Reading 6	7.7	ppm
3473	AK14585	FD	Non-Filtered BOD 60 - Reading 7	8.9	ppm
3473	AK14585	FD	Non-Filtered BOD 60 - Reading 8	10.5	ppm
3473	AK14585	FD	Non-Filtered BOD 60 - Reading 9	12.0	ppm
3473	AK14585	FD	Non-Filtered BOD 60 - Reading 10	13.2	ppm
3473	AK14585	FD	Non-Filtered BOD 60 - Final	14.0	ppm

Appendix D2 – Ambient / Historical Ambient Data


Bayou Manchac Ambient Water Quality Network Site 0142 Chloride Historical Trend Period of Record: 1986-2009
Measured Cl Values
200
180
160
140
120
100
80
60
40
20
0
2/18/1986
2/18/1987
2/18/1988
2/18/1989
2/18/1990
2/18/1991
2/18/1992
2/18/1993
2/18/1994
2/18/1995
2/18/1996
2/18/1997
2/18/1998
2/18/1999
2/18/2000
2/18/2001
2/18/2002
2/18/2003
2/18/2004
2/18/2005
2/18/2006
2/18/2007
2/18/2008
2/18/2009

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/18/1986	54.6	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/18/1986	72	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/15/1986	49.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/13/1986	15.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/10/1986	43	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/15/1986	60.2	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/12/1986	52.9	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/9/1986	36.6	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/14/1986	18.9	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1986	44.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/8/1986	44.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/1987	39.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/16/1987	18.5	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1987	37.7	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1987	32	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1987	35	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/8/1987	124	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/13/1987	25.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/10/1987	26.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/14/1987	28.8	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/12/1987	37.4	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/16/1987	32.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/14/1987	47	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/11/1988	57.4	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/8/1988	15.3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1988	25.6	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/11/1988	20.5	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/9/1988	19.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/13/1988	45	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1988	37.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/12/1988	34.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/10/1988	23	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/14/1988	23	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/12/1988	17.3	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/1989	59.7	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/13/1989	72.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1989	90.3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/10/1989	162	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/8/1989	33.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1989	19.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/15/1989	21.5	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/12/1989	16.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/10/1989	24.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1989	48.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/11/1989	30.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/8/1990	19.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/12/1990	20.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/12/1990	19.5	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/9/1990	19.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/14/1990	29.7	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/11/1990	24.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/9/1990	30.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/13/1990	29.3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/1990	17.7	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/15/1990	29.5	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1990	22.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/10/1990	28.7	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/15/1991	20.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/5/1991	3.3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/12/1991	25.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/16/1991	43.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/14/1991	8	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/11/1991	16.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/16/1991	28.6	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/13/1991	25.9	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/1991	32.6	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/15/1991	39.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/19/1991	29.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/10/1991	36.8	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/6/1992	56.3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/11/1992	18.7	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/10/1992	3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/7/1992	41.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/12/1992	35.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/16/1992	56.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/14/1992	27	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/11/1992	7.9	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/15/1992	27.4	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/13/1992	37.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1992	34.4	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/15/1992	42.9	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/1993	13.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/9/1993	17	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1993	29	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1993	6.9	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1993	30.3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/15/1993	35.6	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/13/1993	176	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/10/1993	23.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/14/1993	26.8	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/12/1993	27.6	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/16/1993	23.3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/14/1993	81.6	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/11/1994	177	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/8/1994	52.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/15/1994	35.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/12/1994	38.8	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/10/1994	3.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/14/1994	14.4	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/12/1994	22.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/9/1994	11.3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/13/1994	9.7	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/11/1994	105	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/15/1994	17.8	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/13/1994	24.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/10/1995	51.9	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/14/1995	68.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1995	2.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/4/1995	22.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/9/1995	3.9	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/13/1995	22.9	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1995	17.6	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/15/1995	36.9	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/11/1995	94.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/9/1995	19.7	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1995	63.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/11/1995	37.6	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/1996	46.2	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/12/1996	43.3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/11/1996	47	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/8/1996	29.3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/13/1996	26.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/10/1996	24.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/8/1996	39.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/12/1996	7.6	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/9/1996	36.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/14/1996	39.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/18/1996	27.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/9/1996	31.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/6/1997	49.4	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/17/1997	16.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/10/1997	30	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/14/1997	36.7	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/12/1997	48.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/9/1997	20.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/14/1997	10.9	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/11/1997	21	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/8/1997	24.3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/13/1997	28.2	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1997	27.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/9/1997	45.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/13/1998	3.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/9/1998	15.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1998	21.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1998	23.3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1998	52.1	CHLORIDE, ION CHROMATOGRAPH	

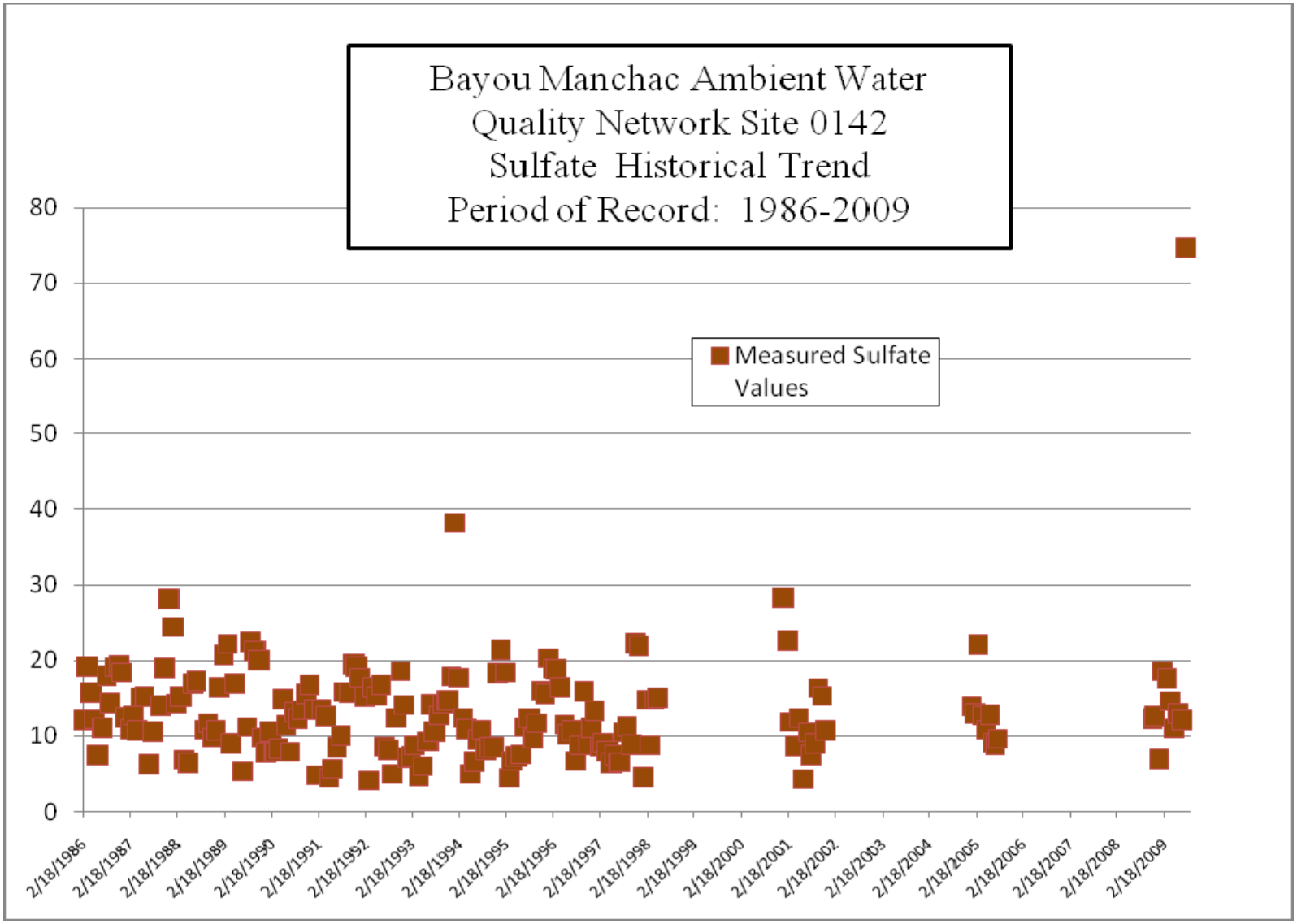
Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/2001	34.5	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/13/2001	45.9	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/13/2001	7.9	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/9/2001	25.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/8/2001	31	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/12/2001	4.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/17/2001	11.8	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/14/2001	19.3	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/2001	16.4	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/9/2001	33.2	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/6/2001	23.7	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/3/2001	39.8	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/2005	39.7	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/2/2005	17	CHLORIDE, ION CHROMATOGRAPH	Unfiltered

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/1/2005	21.3	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/6/2005	50.1	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/4/2005	35	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/2/2005	22	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/28/2005	20	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/12/2005	13.1	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/2/2005	12.5	CHLORIDE, ION CHROMATOGRAPH	Unfiltered

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/18/2008	38.5	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/2/2008	33.9	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/7/2009	5	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/3/2009	32.9	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/11/2009	95.5	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/7/2009	29.1	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/5/2009	24.3	CHLORIDE, ION CHROMATOGRAPH	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/2/2009	47.4	CHLORIDE, ION CHROMATOGRAPH	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/7/2009	32.7	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/4/2009	112	CHLORIDE, ION CHROMATOGRAPH	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/15/2009	24	CHLORIDE, ION CHROMATOGRAPH	Unfiltered


Bayou Manchac Ambient Water Quality Network Site 0142 Sulfate Historical Trend Period of Record: 1986-2009
Measured Sulfate Values
80
70
60
50
40
30
20
10
0
2/18/1986
2/18/1987
2/18/1988
2/18/1989
2/18/1990
2/18/1991
2/18/1992
2/18/1993
2/18/1994
2/18/1995
2/18/1996
2/18/1997
2/18/1998
2/18/1999
2/18/2000
2/18/2001
2/18/2002
2/18/2003
2/18/2004
2/18/2005
2/18/2006
2/18/2007
2/18/2008
2/18/2009

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/18/1986	12.1	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/18/1986	19.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/15/1986	15.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/13/1986	12.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/10/1986	7.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/15/1986	11.1	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/12/1986	18	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/9/1986	14.4	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/14/1986	19.1	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1986	19.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/8/1986	18.4	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/1987	12.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/16/1987	10.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1987	12.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1987	10.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1987	15.1	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/8/1987	15.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/13/1987	6.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/10/1987	10.6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/12/1987	14	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/16/1987	19	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/14/1987	28.1	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/11/1988	24.4	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/8/1988	14.3	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1988	15.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/11/1988	6.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/9/1988	6.4	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/13/1988	16.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1988	17.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/12/1988	10.8	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/10/1988	11.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/14/1988	9.8	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/12/1988	10.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/1989	16.4	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/13/1989	20.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1989	22.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/10/1989	9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/8/1989	16.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1989	5.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/15/1989	11.2	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/12/1989	22.4	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/10/1989	21.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1989	20	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/11/1989	9.8	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/8/1990	7.8	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/12/1990	10.6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/12/1990	7.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/9/1990	8.3	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/14/1990	14.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/11/1990	11.4	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/9/1990	7.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/13/1990	13.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/1990	12.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/15/1990	13.4	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1990	15.6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/10/1990	16.8	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/15/1991	13.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/5/1991	4.8	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/12/1991	13.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/16/1991	12.6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/14/1991	4.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/11/1991	5.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/16/1991	8.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/13/1991	10.1	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/1991	15.8	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/15/1991	15.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/19/1991	19.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/10/1991	19.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/6/1992	17.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/11/1992	15.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/10/1992	4.1	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/7/1992	16.4	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/12/1992	15.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/16/1992	16.8	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/14/1992	8.6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/11/1992	8.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/15/1992	5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/13/1992	12.4	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1992	18.6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/15/1992	14.1	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/1993	7.1	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/9/1993	7.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1993	8.8	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1993	4.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1993	6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/15/1993	9.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/13/1993	14.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/10/1993	10.6	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/14/1993	12.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/12/1993	14.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/16/1993	14.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/14/1993	17.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/11/1994	38.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/8/1994	17.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/15/1994	12.4	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/12/1994	10.9	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/10/1994	5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/14/1994	6.6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/12/1994	9.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/9/1994	10.8	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/13/1994	8.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/11/1994	8.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/15/1994	8.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/13/1994	18.3	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/10/1995	21.4	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/14/1995	18.4	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1995	4.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/4/1995	6.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/9/1995	7.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/13/1995	7.6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1995	11.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/15/1995	12.4	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/11/1995	9.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/9/1995	11.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1995	16	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/11/1995	15.6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/1996	20.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/12/1996	18.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/11/1996	18.8	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/8/1996	16.4	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/13/1996	11.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/10/1996	10.2	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/8/1996	10.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/12/1996	6.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/9/1996	8.8	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/14/1996	15.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/18/1996	8.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/9/1996	11.1	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/6/1997	13.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/17/1997	8.6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/10/1997	9.1	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/14/1997	8	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/12/1997	6.4	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/9/1997	7.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/14/1997	6.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/11/1997	10.5	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/8/1997	11.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/13/1997	8.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1997	22.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/9/1997	21.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/13/1998	4.6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/9/1998	14.8	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1998	8.8	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1998	14.8	SULFATE	

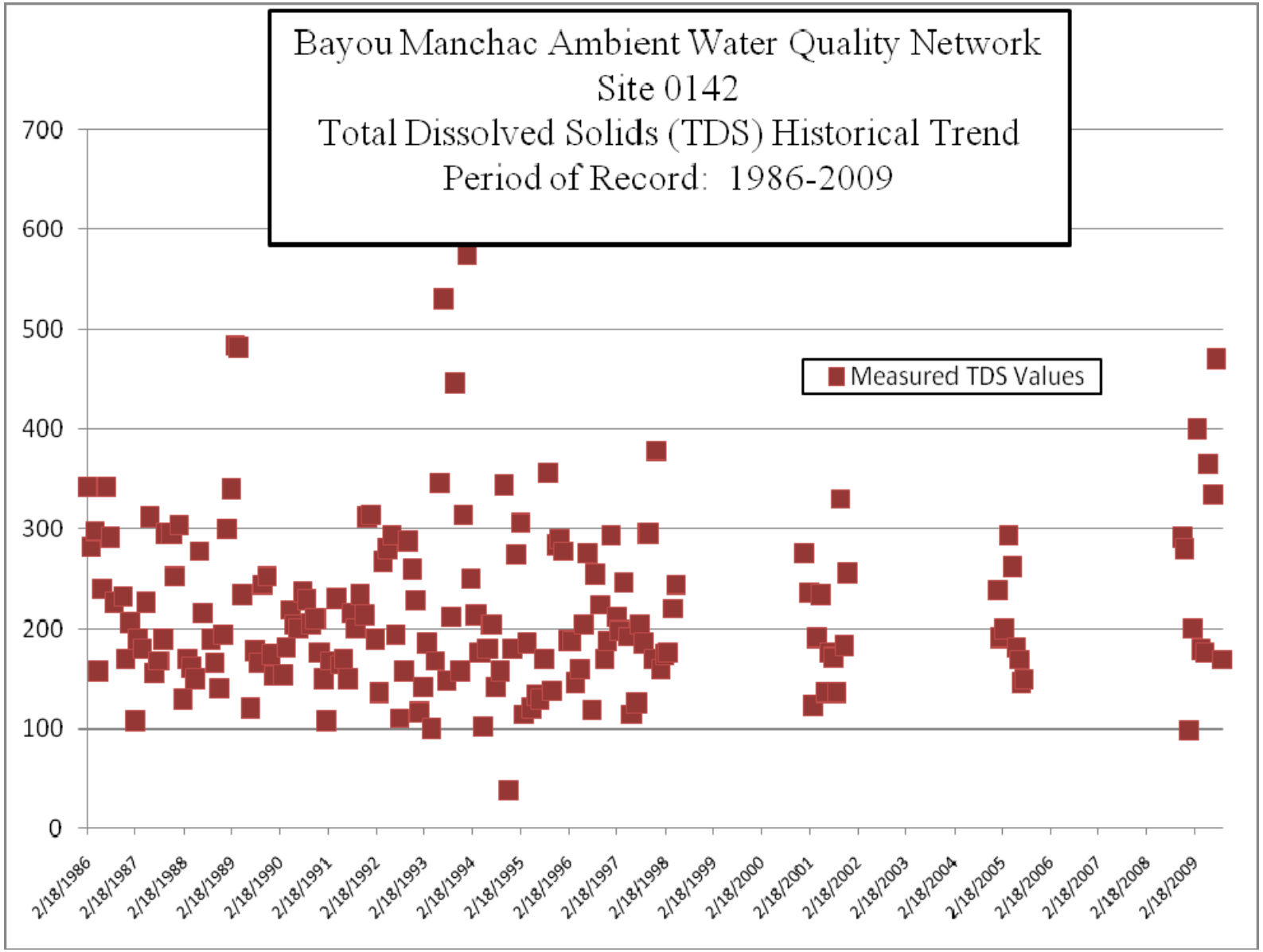
Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1998	15	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/2001	28.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/13/2001	22.6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/13/2001	11.9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/9/2001	8.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/8/2001	12.4	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/12/2001	4.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/17/2001	10.5	SULFATE	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/14/2001	7.5	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/2001	9	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/9/2001	16.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/6/2001	15.3	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/3/2001	10.7	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/2005	13.9	SULFATE	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/2/2005	13	SULFATE	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/1/2005	22.1	SULFATE	Unfiltered

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/6/2005	12.7	SULFATE	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/4/2005	10.8	SULFATE	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/2/2005	12.8	SULFATE	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/28/2005	9.1	SULFATE	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/12/2005	8.8	SULFATE	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/2/2005	9.6	SULFATE	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/18/2008	12.3	SULFATE	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/2/2008	12.6	SULFATE	Unfiltered

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/7/2009	7	SULFATE	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/3/2009	18.6	SULFATE	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/11/2009	17.6	SULFATE	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/7/2009	14.6	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/5/2009	11	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/2/2009	13	SULFATE	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/7/2009	12.1	SULFATE	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/4/2009	74.7	SULFATE	Unfiltered

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/15/2009		SULFATE	Unfiltered


Bayou Manchac Ambient Water Quality Network
Site 0142
Total Dissolved Solids (TDS) Historical Trend
Period of Record: 1986-2009
Measured TDS Values
700
600
500
400
300
200
100
0
2/18/1986
2/18/1987
2/18/1988
2/18/1989
2/18/1990
2/18/1991
2/18/1992
2/18/1993
2/18/1994
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2/18/2000
2/18/2001
2/18/2002
2/18/2003
2/18/2004
2/18/2005
2/18/2006
2/18/2007
2/18/2008
2/18/2009

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/18/1986	342	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/18/1986	282	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/15/1986	298	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/13/1986	158	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/10/1986	240	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/15/1986	342	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/12/1986	292	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/9/1986	226	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1986	232	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/8/1986	170	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/1987	206	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/16/1987	108	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1987	190	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1987	180	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1987	226	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/8/1987	312	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/13/1987	156	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/10/1987	168	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/14/1987	190	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/12/1987	296	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/16/1987	296	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/14/1987	252	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/11/1988	304	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/8/1988	130	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1988	170	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/11/1988	162	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/9/1988	150	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/13/1988	278	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1988	216	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/12/1988	190	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/10/1988	166	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/14/1988	140	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/12/1988	194	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/1989	300	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/13/1989	340	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1989	484	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/10/1989	482	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/8/1989	234	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1989	120	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/15/1989	178	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/12/1989	166	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/10/1989	244	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1989	252	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/11/1989	174	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/8/1990	153	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/12/1990	154	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/9/1990	181	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/14/1990	219	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/11/1990	204	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/9/1990	200	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/13/1990	237	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/1990	229	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/15/1990	205	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1990	210	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/10/1990	176	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/15/1991	150	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/5/1991	108	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/12/1991	168	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/16/1991	230	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/14/1991	164	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/11/1991	170	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/16/1991	150	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/13/1991	216	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/1991	200	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/15/1991	234	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/19/1991	214	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/10/1991	312	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/6/1992	314	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/11/1992	190	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/10/1992	136	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/7/1992	268	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/12/1992	280	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/16/1992	294	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/14/1992	194	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/11/1992	110	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/15/1992	158	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/13/1992	288	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1992	260	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/15/1992	228	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/1993	116	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/9/1993	142	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1993	186	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1993	100	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1993	168	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/15/1993	346	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/13/1993	530	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/10/1993	148	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/14/1993	212	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/12/1993	446	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/16/1993	158	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/14/1993	314	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/11/1994	574	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/8/1994	250	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/15/1994	214	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/12/1994	176	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/10/1994	102	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/14/1994	180	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/12/1994	204	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/9/1994	142	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/13/1994	158	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/11/1994	344	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/15/1994	38	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/13/1994	180	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/10/1995	274	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/14/1995	306	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/14/1995	114	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/4/1995	186	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/9/1995	120	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/13/1995	134	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/11/1995	130	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/15/1995	170	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/11/1995	356	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/9/1995	138	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/13/1995	284	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/11/1995	290	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/1996	278	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/12/1996	189	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/11/1996	188	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/8/1996	146	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/13/1996	160	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/10/1996	204	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/8/1996	276	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/12/1996	118	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/9/1996	254	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/14/1996	224	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/18/1996	170	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/9/1996	188	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/6/1997	294	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/17/1997	212	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/10/1997	198	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/14/1997	246	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/12/1997	192	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/9/1997	114	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/14/1997	126	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/11/1997	204	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/8/1997	186	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/13/1997	296	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/17/1997	170	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/9/1997	378	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/13/1998	160	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/9/1998	174	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/9/1998	176	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/13/1998	220	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/11/1998	244	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/9/2001	276	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/13/2001	236	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/13/2001	123	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/9/2001	191	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/8/2001	234	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/12/2001	136	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/17/2001	176	TOTAL DISSOLVED SOLIDS	

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/14/2001	171	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/10/2001	136	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	10/9/2001	330	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/6/2001	183	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/3/2001	256	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/12/2005	239	TOTAL DISSOLVED SOLIDS	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/2/2005	191	TOTAL DISSOLVED SOLIDS	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/1/2005	199	TOTAL DISSOLVED SOLIDS	Unfiltered

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/6/2005	294	TOTAL DISSOLVED SOLIDS	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/4/2005	262	TOTAL DISSOLVED SOLIDS	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/2/2005	181	TOTAL DISSOLVED SOLIDS	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/28/2005	169	TOTAL DISSOLVED SOLIDS	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/12/2005	146	TOTAL DISSOLVED SOLIDS	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/2/2005	149	TOTAL DISSOLVED SOLIDS	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	11/18/2008	292	TOTAL DISSOLVED SOLIDS	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	12/2/2008	280	TOTAL DISSOLVED SOLIDS	Unfiltered

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	1/7/2009	98	TOTAL DISSOLVED SOLIDS	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	2/3/2009	200	TOTAL DISSOLVED SOLIDS	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	3/11/2009	400	TOTAL DISSOLVED SOLIDS	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	4/7/2009	179	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	5/5/2009	176	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	6/2/2009	365	TOTAL DISSOLVED SOLIDS	
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	7/7/2009	334	TOTAL DISSOLVED SOLIDS	Unfiltered
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	8/4/2009	470	TOTAL DISSOLVED SOLIDS	Unfiltered

Site Name	Subsegment	Site#	Collection Date	Result (ppm, mg/L)	Parameter	Filtration Method
Bayou Manchac near Prairieville, Louisiana	LA040201_00	142	9/15/2009	169	TOTAL DISSOLVED SOLIDS	Unfiltered

Appendix D3 – Land Use Summary

Land Use Summary

Subsegment 40201

Data Source Name: LA-GAP June 2000

Grid Name	Area (Acres)	% Land Use
Agriculture/Cropland/Grassland	32597.70	29.53
Vegetated Urban	25850.47	23.42
Wetland Forest Deciduous	23712.37	21.48
Non-Vegetated Urban	8249.95	7.47
Water	4904.69	4.44
Upland Forest Mixed	3295.22	2.99
Upland Forest Deciduous	3240.07	2.94
Wetland S/S Deciduous	2507.94	2.27
Upland Forest Evergreen	2193.48	1.99
Upland S/S Mixed	1876.12	1.70
Fresh Marsh	909.59	0.82
Upland Barren	514.18	0.47
Upland S/S Evergreen	342.27	0.31
Upland S/S Deciduous	164.35	0.15
Wetland Forest Mixed	24.69	0.02
Wetland Barren	7.78	0.01

Appendix D4 – Groundwater Data

Groundwater Chloride Data

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36930	1.5	MG/L	1017	CHLORIDE	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36935	2.2	MG/L	1017	CHLORIDE	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36940	2.5	MG/L	1017	CHLORIDE	2CGE	ONEAL LANE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36945	2.4	MG/L	1017	CHLORIDE	2MKY	LAFAYETTE 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36950	2.6	MG/L	1017	CHLORIDE	2MKZ	GOVERNMENT 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/5/95	AB46084	2.8	MG/L	1017	CHLORIDE	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/5/95	AB46089	3.1	MG/L	1017	CHLORIDE	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/5/95	AB46099	3.3	MG/L	1017	CHLORIDE	2CFN	INTERSTATE 002	RW
LA1033005	BATON ROUGE	GW	6/5/95	AB46104	2.9	MG/L	1017	CHLORIDE	2CGO	STAN AUBIN 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	WATER COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47828	3.7	MG/L	1017	CHLORIDE	2CFD	CORTANA 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47833	2.8	MG/L	1017	CHLORIDE	2CFE	CORTANA 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47838	6.5	MG/L	1017	CHLORIDE	2CFF	CORTANA 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47843	5.2	MG/L	1017	CHLORIDE	2CFG	CORTANA 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47848	6.3	MG/L	1017	CHLORIDE	2CFH	CORTANA 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47853	5.8	MG/L	1017	CHLORIDE	2CFL	GREENRIDGE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47858	7.1	MG/L	1017	CHLORIDE	2CFZ	N. SHARP 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47863	6.4	MG/L	1017	CHLORIDE	2CGA	N. SHARP 002	RW
LA1033005	BATON ROUGE WATER	GW	7/18/95	AB47868	7.1	MG/L	1017	CHLORIDE	2MKK	S CHOCTAW 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47873	3.9	MG/L	1017	CHLORIDE	2MLB	S CHOCTAW 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48302	3.2	MG/L	1017	CHLORIDE	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48307	5.6	MG/L	1017	CHLORIDE	2CGQ	STUMBERG 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48312	3.8	MG/L	1017	CHLORIDE	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48317	5.3	MG/L	1017	CHLORIDE	2CGS	TOULON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48322	10.8	MG/L	1017	CHLORIDE	2CGT	WESTMINSTER 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48638	4	MG/L	1017	CHLORIDE	2CEV	BANKSTON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48643	6.2	MG/L	1017	CHLORIDE	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER	GW	8/2/95	AB48648	6	MG/L	1017	CHLORIDE	2CEX	BANKSTON 003	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48653	6.2	MG/L	1017	CHLORIDE	2CEY	BANKSTON 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48658	5.3	MG/L	1017	CHLORIDE	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48950	3.6	MG/L	1017	CHLORIDE	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48970	134.9	MG/L	1017	CHLORIDE	2CFO	LAFAYETTE 015	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48975	3.3	MG/L	1017	CHLORIDE	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48980	2.6	MG/L	1017	CHLORIDE	2CGC	OLOL 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48955	3.2	MG/L	1017	CHLORIDE	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48960	188.8	MG/L	1017	CHLORIDE	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER	GW	8/9/95	AB48965	64.7	MG/L	1017	CHLORIDE	2CGN	SOUTHERN UNIV. 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48985	20.3	MG/L	1017	CHLORIDE	2MKH	LAFAYETTE 014	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48990	3.3	MG/L	1017	CHLORIDE	2MKV	BR METRO AIRPORT WEL	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49940	3.2	MG/L	1017	CHLORIDE	2CFP	LULA 017	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49945	2.9	MG/L	1017	CHLORIDE	2CFQ	LULA 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49950	4.3	MG/L	1017	CHLORIDE	2CFR	LULA 019	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49955	3.4	MG/L	1017	CHLORIDE	2CFS	LULA 020	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49960	3.1	MG/L	1017	CHLORIDE	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49915	3.1	MG/L	1017	CHLORIDE	2CFU	LULA 022	RW
LA1033005	BATON ROUGE WATER	GW	8/23/95	AB49920	3.6	MG/L	1017	CHLORIDE	2CFV	LULA 023	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49925	3	MG/L	1017	CHLORIDE	2CFW	N. 45TH 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49930	3	MG/L	1017	CHLORIDE	2CFX	N. 45TH 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49935	3.3	MG/L	1017	CHLORIDE	2CFY	N. 45TH 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50355	3.2	MG/L	1017	CHLORIDE	2CGD	ONEAL LANE 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50360	2.9	MG/L	1017	CHLORIDE	2CGF	RIDGECREST 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50365	2.8	MG/L	1017	CHLORIDE	2CGG	RIDGECREST 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50370	2.5	MG/L	1017	CHLORIDE	2CGH	RIDGECREST 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50375	3.1	MG/L	1017	CHLORIDE	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER	GW	9/20/95	AB51296	3.8	MG/L	1017	CHLORIDE	2CFK	GOVERNMENT 006	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	9/20/95	AB51316	2.7	MG/L	1017	CHLORIDE	2MKG	GOVERNMENT 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/2/98	AB80715	5.8	MG/L	1017	CHLORIDE	2CFW	N. 45TH 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/2/98	AB80735	3.5	MG/L	1017	CHLORIDE	2MOQ	N. 45TH 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/8/98	AB80889	2	MG/L	1017	CHLORIDE	2CFD	CORTANA 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/8/98	AB80894	2.2	MG/L	1017	CHLORIDE	2CFE	CORTANA 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/8/98	AB80909	3.3	MG/L	1017	CHLORIDE	2CFH	CORTANA 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81139	104.3	MG/L	1017	CHLORIDE	2CFO	LAFAYETTE 015	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81129	2.7	MG/L	1017	CHLORIDE	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER	GW	6/15/98	AB81134	2.5	MG/L	1017	CHLORIDE	2CGC	OLOL 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81154	3	MG/L	1017	CHLORIDE	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81159	178.7	MG/L	1017	CHLORIDE	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81164	5.4	MG/L	1017	CHLORIDE	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81169	59.6	MG/L	1017	CHLORIDE	2CGN	SOUTHERN UNIV. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81144	11.2	MG/L	1017	CHLORIDE	2MKH	LAFAYETTE 014	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81174	15.5	MG/L	1017	CHLORIDE	2MKV	BR METRO AIRPORT WEL	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81149	2.8	MG/L	1017	CHLORIDE	2MKY	LAFAYETTE 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81300	3.7	MG/L	1017	CHLORIDE	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER	GW	6/22/98	AB81305	3.4	MG/L	1017	CHLORIDE	2CEX	BANKSTON 003	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81315	3.4	MG/L	1017	CHLORIDE	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81320	3.1	MG/L	1017	CHLORIDE	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81325	2.3	MG/L	1017	CHLORIDE	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81330	17.7	MG/L	1017	CHLORIDE	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81335	2.7	MG/L	1017	CHLORIDE	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81780	3.4	MG/L	1017	CHLORIDE	2CFK	GOVERNMENT 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81815	3.1	MG/L	1017	CHLORIDE	2CFS	LULA 020	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81820	2.8	MG/L	1017	CHLORIDE	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER	GW	7/6/98	AB81795	2.3	MG/L	1017	CHLORIDE	2MKG	GOVERNMENT 005	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81800	2.5	MG/L	1017	CHLORIDE	2MKZ	GOVERNMENT 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82041	2.7	MG/L	1017	CHLORIDE	2CFN	INTERSTATE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82046	2.8	MG/L	1017	CHLORIDE	2CGF	RIDGECREST 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82051	2.8	MG/L	1017	CHLORIDE	2CGG	RIDGECREST 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82056	2.4	MG/L	1017	CHLORIDE	2CGH	RIDGECREST 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82061	2.1	MG/L	1017	CHLORIDE	2CGO	STAN AUBIN 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82066	3.1	MG/L	1017	CHLORIDE	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82076	2.3	MG/L	1017	CHLORIDE	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER	GW	7/13/98	AB82081	2.8	MG/L	1017	CHLORIDE	2CGS	TOULON 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82086	30.4	MG/L	1017	CHLORIDE	2CGT	WESTMINSTER 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/27/98	AB82979	3	MG/L	1017	CHLORIDE	2CGD	ONEAL LANE 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/27/98	AB82994	4.2	MG/L	1017	CHLORIDE	2MKK	S CHOCTAW 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/27/98	AB82989	3.3	MG/L	1017	CHLORIDE	2MLB	S CHOCTAW 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/27/98	AB86479	2.9	MG/L	1017	CHLORIDE	2MOZ	INTERSTATE 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/18/00	AC06984	2.1	MG/L	1017	CHLORIDE	2MPG	INTERSTATE 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/18/00	AC06989	6.2	MG/L	1017	CHLORIDE	2MPH	STUMBERG 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12970	3	MG/L	1017	CHLORIDE	2CGD	ONEAL LANE 001	RW
LA1033005	BATON ROUGE WATER	GW	5/1/01	AC12975	3.8	MG/L	1017	CHLORIDE	2CGE	ONEAL LANE 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12980	2.7	MG/L	1017	CHLORIDE	2CGF	RIDGECREST 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12985	2.9	MG/L	1017	CHLORIDE	2CGG	RIDGECREST 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12990	4.6	MG/L	1017	CHLORIDE	2MKK	S CHOCTAW 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/2/01	AC13020	3.4	MG/L	1017	CHLORIDE	2MLB	S CHOCTAW 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/8/01	AC13206	2.5	MG/L	1017	CHLORIDE	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/8/01	AC13216	2.6	MG/L	1017	CHLORIDE	2CGH	RIDGECREST 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/9/01	AC13211	3.6	MG/L	1017	CHLORIDE	2CFK	GOVERNMENT 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/16/01	AC13367	2.7	MG/L	1017	CHLORIDE	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER	GW	5/16/01	AC13377	2.5	MG/L	1017	CHLORIDE	2MKZ	GOVERNMENT 007	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	5/23/01	AC13489	47.3	MG/L	1017	CHLORIDE	2CGT	WESTMINSTER 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/11/01	AC14009	3.3	MG/L	1017	CHLORIDE	2CGQ	STUMBERG 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/11/01	AC14029	2.5	MG/L	1017	CHLORIDE	2MKG	GOVERNMENT 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/13/01	AC22161	2.6	MG/L	1017	CHLORIDE	2MPT	N. 45TH 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22443	2	MG/L	1017	CHLORIDE	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22448	2.3	MG/L	1017	CHLORIDE	2CFW	N. 45TH 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22453	2.7	MG/L	1017	CHLORIDE	2CFX	N. 45TH 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22458	2.5	MG/L	1017	CHLORIDE	2CFY	N. 45TH 003	RW
LA1033005	BATON ROUGE WATER	GW	11/19/01	AC22463	2.6	MG/L	1017	CHLORIDE	2MOQ	N. 45TH 004	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22553	2.3	MG/L	1017	CHLORIDE	2CFD	CORTANA 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22558	3.1	MG/L	1017	CHLORIDE	2CFE	CORTANA 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22563	3.8	MG/L	1017	CHLORIDE	2CFF	CORTANA 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22568	2.8	MG/L	1017	CHLORIDE	2CFG	CORTANA 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22573	3.6	MG/L	1017	CHLORIDE	2CFH	CORTANA 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22931	47.5	MG/L	1017	CHLORIDE	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22936	3.8	MG/L	1017	CHLORIDE	2CFL	GREENRIDGE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22941	4.2	MG/L	1017	CHLORIDE	2CFZ	N. SHARP 001	RW
LA1033005	BATON ROUGE WATER	GW	12/11/01	AC22946	4.4	MG/L	1017	CHLORIDE	2CGA	N. SHARP 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22951	58	MG/L	1017	CHLORIDE	2CGN	SOUTHERN UNIV. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23511	5.6	MG/L	1017	CHLORIDE	2CEV	BANKSTON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23516	4	MG/L	1017	CHLORIDE	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23521	4.7	MG/L	1017	CHLORIDE	2CEY	BANKSTON 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23526	4.2	MG/L	1017	CHLORIDE	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23531	4.5	MG/L	1017	CHLORIDE	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23918	3.5	MG/L	1017	CHLORIDE	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23923	2.3	MG/L	1017	CHLORIDE	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER	GW	1/22/02	AC23928	2.3	MG/L	1017	CHLORIDE	2CFN	INTERSTATE 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23933	5.7	MG/L	1017	CHLORIDE	2CFO	LAFAYETTE 015	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23938	9	MG/L	1017	CHLORIDE	2MKY	LAFAYETTE 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24520	10.5	MG/L	1017	CHLORIDE	2CFP	LULA 017	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24525	3.4	MG/L	1017	CHLORIDE	2CFQ	LULA 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24530	34.6	MG/L	1017	CHLORIDE	2CFR	LULA 019	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24535	3.1	MG/L	1017	CHLORIDE	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24540	10.7	MG/L	1017	CHLORIDE	2CFU	LULA 022	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24810	3.3	MG/L	1017	CHLORIDE	2CEX	BANKSTON 003	RW
LA1033005	BATON ROUGE WATER	GW	2/26/02	AC24815	3.3	MG/L	1017	CHLORIDE	2CFS	LULA 020	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24820	3.3	MG/L	1017	CHLORIDE	2CFV	LULA 023	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24825	4.3	MG/L	1017	CHLORIDE	2CFZ	N. SHARP 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24830	5.1	MG/L	1017	CHLORIDE	2CGA	N. SHARP 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/5/02	AC25021	2.4	MG/L	1017	CHLORIDE	2CGC	OLOL 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/5/02	AC25026	3.6	MG/L	1017	CHLORIDE	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/5/02	AC25031	160	MG/L	1017	CHLORIDE	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/5/02	AC25036	3.4	MG/L	1017	CHLORIDE	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/13/02	AC25016	2.4	MG/L	1017	CHLORIDE	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER	GW	3/13/02	AC25266	2.1	MG/L	1017	CHLORIDE	2CGO	STAN AUBIN 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	3/13/02	AC25271	3.1	MG/L	1017	CHLORIDE	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/13/02	AC25276	2.5	MG/L	1017	CHLORIDE	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/20/02	AC25359	4.2	MG/L	1017	CHLORIDE	2CGS	TOULON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/20/02	AC25374	3.7	MG/L	1017	CHLORIDE	2MOR	S. HAROLDS FERRY 00	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/20/02	AC25379	2.2	MG/L	1017	CHLORIDE	2MOZ	INTERSTATE 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/9/03	AC41563	31.1	MG/L	1017	CHLORIDE	2MPH	STUMBERG 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/14/03	AC43743	0	MG/L	1017	CHLORIDE	2MPG	INTERSTATE 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/3/04	AC47126	0	MG/L	1017	CHLORIDE	2POO	SOUTER WELL 001	RW
LA1033005	BATON ROUGE WATER	GW	2/25/04	AC47745	0	MG/L	1017	CHLORIDE	2MKK	S CHOCTAW 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	2/25/04	AC47750	0	MG/L	1017	CHLORIDE	2MLB	S CHOCTAW 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49691	0	MG/L	1017	CHLORIDE	2CGD	ONEAL LANE 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49696	0	MG/L	1017	CHLORIDE	2CGE	ONEAL LANE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49701	0	MG/L	1017	CHLORIDE	2CGF	RIDGECREST 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49706	0	MG/L	1017	CHLORIDE	2CGG	RIDGECREST 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49711	0	MG/L	1017	CHLORIDE	2CGH	RIDGECREST 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50538	0	MG/L	1017	CHLORIDE	2CFK	GOVERNMENT 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50543	0	MG/L	1017	CHLORIDE	2CGQ	STUMBERG 001	RW
LA1033005	BATON ROUGE WATER	GW	6/9/04	AC50548	140.6	MG/L	1017	CHLORIDE	2CGT	WESTMINSTER 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50553	0	MG/L	1017	CHLORIDE	2MKG	GOVERNMENT 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50558	0	MG/L	1017	CHLORIDE	2MKZ	GOVERNMENT 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56420	0	MG/L	1017	CHLORIDE	2CFD	CORTANA 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56425	0	MG/L	1017	CHLORIDE	2CFE	CORTANA 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56430	0	MG/L	1017	CHLORIDE	2CFF	CORTANA 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56435	0	MG/L	1017	CHLORIDE	2CFG	CORTANA 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56440	0	MG/L	1017	CHLORIDE	2CFH	CORTANA 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57255	0	MG/L	1017	CHLORIDE	2CFW	N. 45TH 001	RW
LA1033005	BATON ROUGE WATER	GW	11/30/04	AC57260	0	MG/L	1017	CHLORIDE	2CFX	N. 45TH 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57280	0	MG/L	1017	CHLORIDE	2CFY	N. 45TH 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57290	0	MG/L	1017	CHLORIDE	2MOQ	N. 45TH 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57295	0	MG/L	1017	CHLORIDE	2MPT	N. 45TH 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/04	AC57740	0	MG/L	1017	CHLORIDE	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/04	AC57745	159.2	MG/L	1017	CHLORIDE	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/04	AC57750	0	MG/L	1017	CHLORIDE	2CFL	GREENRIDGE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/04	AC57755	69.3	MG/L	1017	CHLORIDE	2CGN	SOUTHERN UNIV. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58768	0	MG/L	1017	CHLORIDE	2CFN	INTERSTATE 002	RW
LA1033005	BATON ROUGE WATER	GW	1/19/05	AC58798	10.9	MG/L	1017	CHLORIDE	2CFP	LULA 017	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58803	10.5	MG/L	1017	CHLORIDE	2CFQ	LULA 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58808	56.1	MG/L	1017	CHLORIDE	2CFR	LULA 019	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58813	0	MG/L	1017	CHLORIDE	2CFS	LULA 020	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58818	15.2	MG/L	1017	CHLORIDE	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58773	16.2	MG/L	1017	CHLORIDE	2CFU	LULA 022	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58778	0	MG/L	1017	CHLORIDE	2CFV	LULA 023	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59513	0	MG/L	1017	CHLORIDE	2CEV	BANKSTON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59518	0	MG/L	1017	CHLORIDE	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER	GW	2/23/05	AC59523	0	MG/L	1017	CHLORIDE	2CEX	BANKSTON 003	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59528	0	MG/L	1017	CHLORIDE	2CEY	BANKSTON 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59533	0	MG/L	1017	CHLORIDE	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59483	0	MG/L	1017	CHLORIDE	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59488	0	MG/L	1017	CHLORIDE	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59493	13.9	MG/L	1017	CHLORIDE	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59498	178.3	MG/L	1017	CHLORIDE	2CFO	LAFAYETTE 015	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59503	0	MG/L	1017	CHLORIDE	2MKY	LAFAYETTE 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59727	0	MG/L	1017	CHLORIDE	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER	GW	3/2/05	AC59732	0	MG/L	1017	CHLORIDE	2CGC	OLOL 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59737	0	MG/L	1017	CHLORIDE	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59742	253.9	MG/L	1017	CHLORIDE	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59747	0	MG/L	1017	CHLORIDE	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59757	0	MG/L	1017	CHLORIDE	2CGO	STAN AUBIN 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59762	0	MG/L	1017	CHLORIDE	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59767	0	MG/L	1017	CHLORIDE	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59772	0	MG/L	1017	CHLORIDE	2CGS	TOULON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59777	0	MG/L	1017	CHLORIDE	2MOR	S. HAROLDS FERRY 00	RW
LA1033005	BATON ROUGE WATER	GW	3/16/05	AC60158	0	MG/L	1017	CHLORIDE	2CFZ	N. SHARP 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	3/16/05	AC60163	0	MG/L	1017	CHLORIDE	2CGA	N. SHARP 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/17/05	AC60173	0	MG/L	1017	CHLORIDE	2MOZ	INTERSTATE 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/7/08	AD22707	0	MG/L	1017	CHLORIDE	2CFN	INTERSTATE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/7/08	AD22712	0	MG/L	1017	CHLORIDE	2CGQ	STUMBERG 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/7/08	AD22727	0	MG/L	1017	CHLORIDE	2MOZ	INTERSTATE 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/7/08	AD22717	0	MG/L	1017	CHLORIDE	2MPG	INTERSTATE 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/7/08	AD22722	188.7	MG/L	1017	CHLORIDE	2MPH	STUMBERG 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/20/09	AD28520	0	MG/L	1017	CHLORIDE	2MKK	S CHOCTAW 001	RW
LA1033005	BATON ROUGE WATER	GW	7/20/09	AD28525	0	MG/L	1017	CHLORIDE	2MLB	S CHOCTAW 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	12/7/09	AD34643	102	MG/L	1017	CHLORIDE	2CGT	WESTMINSTER 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/09	AD35235	8	MG/L	1017	CHLORIDE	2MOR	S. HAROLDS FERRY 00	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/15/10	AD36092	0	MG/L	1017	CHLORIDE	2CEX	BANKSTON 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/15/10	AD36097	0	MG/L	1017	CHLORIDE	2CEY	BANKSTON 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/15/10	AD36102	0	MG/L	1017	CHLORIDE	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/15/10	AD36107	0	MG/L	1017	CHLORIDE	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/15/10	AD36112	0	MG/L	1017	CHLORIDE	2CFZ	N. SHARP 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/1/10	AD36422	0	MG/L	1017	CHLORIDE	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER	GW	3/1/10	AD36427	0	MG/L	1017	CHLORIDE	2CGC	OLOL 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	3/29/10	AD37217	0	MG/L	1017	CHLORIDE	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/29/10	AD37222	64.7	MG/L	1017	CHLORIDE	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/29/10	AD37227	0	MG/L	1017	CHLORIDE	2CFL	GREENRIDGE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/29/10	AD37232	0	MG/L	1017	CHLORIDE	2CGO	STAN AUBIN 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/29/10	AD37237	0	MG/L	1017	CHLORIDE	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/5/10	AD37367	69.2	MG/L	1017	CHLORIDE	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/5/10	AD37372	0	MG/L	1017	CHLORIDE	2CFS	LULA 020	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/5/10	AD37377	0	MG/L	1017	CHLORIDE	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER	GW	4/5/10	AD37382	0	MG/L	1017	CHLORIDE	2CGA	N. SHARP 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	4/5/10	AD37387	0	MG/L	1017	CHLORIDE	2CGS	TOULON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/19/10	AD37910	0	MG/L	1017	CHLORIDE	2AAX	SOUTER DRIVE 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/19/10	AD37915	0	MG/L	1017	CHLORIDE	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/19/10	AD37920	0	MG/L	1017	CHLORIDE	2XYN	SOUTER WELL 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/19/10	AD37925	0	MG/L	1017	CHLORIDE	2XYO	SOUTER WELL 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/19/10	AD37930	0	MG/L	1017	CHLORIDE	2XYP	SOUTER WELL 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/26/10	AD38191	38.6	MG/L	1017	CHLORIDE	2CFP	LULA 017	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/26/10	AD38196	0	MG/L	1017	CHLORIDE	2CFQ	LULA 018	RW
LA1033005	BATON ROUGE WATER	GW	4/26/10	AD38201	0	MG/L	1017	CHLORIDE	2CFR	LULA 019	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										
LA1033005	BATON ROUGE WATER COMPANY	GW	4/26/10	AD38206	114.2	MG/L	1017	CHLORIDE	2CFU	LULA 022	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/26/10	AD38211	0	MG/L	1017	CHLORIDE	2CFV	LULA 023	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/3/10	AD38395	0	MG/L	1017	CHLORIDE	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/1/10	AD48194	0	MG/L	1017	CHLORIDE	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/11	AD50185	0	MG/L	1017	CHLORIDE	2CEV	BANKSTON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/11	AD50190	0	MG/L	1017	CHLORIDE	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/11	AD50195	251.3	MG/L	1017	CHLORIDE	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/11	AD50200	0	MG/L	1017	CHLORIDE	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER	GW	1/19/11	AD50205	0	MG/L	1017	CHLORIDE	2MKY	LAFAYETTE 018	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
	COMPANY										

Groundwater Sulfate data

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36930	12	MG/L	1055	SULFATE	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36935	11	MG/L	1055	SULFATE	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36940	14	MG/L	1055	SULFATE	2CGE	ONEAL LANE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36945	13	MG/L	1055	SULFATE	2MKY	LAFAYETTE 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36950	12	MG/L	1055	SULFATE	2MKZ	GOVERNMENT 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/5/95	AB46084	10	MG/L	1055	SULFATE	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/5/95	AB46089	9	MG/L	1055	SULFATE	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/5/95	AB46099	12	MG/L	1055	SULFATE	2CFN	INTERSTATE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/5/95	AB46104	11	MG/L	1055	SULFATE	2CGO	STAN AUBIN 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47828	11	MG/L	1055	SULFATE	2CFD	CORTANA 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47833	8	MG/L	1055	SULFATE	2CFE	CORTANA 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47838	7	MG/L	1055	SULFATE	2CFF	CORTANA 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47843	6	MG/L	1055	SULFATE	2CFG	CORTANA 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47848	7	MG/L	1055	SULFATE	2CFH	CORTANA 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47853	8	MG/L	1055	SULFATE	2CFL	GREENRIDGE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47858	7	MG/L	1055	SULFATE	2CFZ	N. SHARP 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47863	8	MG/L	1055	SULFATE	2CGA	N. SHARP 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47868	8	MG/L	1055	SULFATE	2MKK	S CHOCTAW 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47873	7	MG/L	1055	SULFATE	2MLB	S CHOCTAW 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48302	7	MG/L	1055	SULFATE	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48307	7	MG/L	1055	SULFATE	2CGQ	STUMBERG 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48312	9	MG/L	1055	SULFATE	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48317	11	MG/L	1055	SULFATE	2CGS	TOULON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48322	11	MG/L	1055	SULFATE	2CGT	WESTMINSTER 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48638	8	MG/L	1055	SULFATE	2CEV	BANKSTON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48643	9	MG/L	1055	SULFATE	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48648	7	MG/L	1055	SULFATE	2CEX	BANKSTON 003	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48653	8	MG/L	1055	SULFATE	2CEY	BANKSTON 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48658	7	MG/L	1055	SULFATE	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48950	7	MG/L	1055	SULFATE	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48970	9	MG/L	1055	SULFATE	2CFO	LAFAYETTE 015	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48975	11	MG/L	1055	SULFATE	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48980	10	MG/L	1055	SULFATE	2CGC	OLOL 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48955	9	MG/L	1055	SULFATE	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48960	4	MG/L	1055	SULFATE	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48965	6	MG/L	1055	SULFATE	2CGN	SOUTHERN UNIV. 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48985	11	MG/L	1055	SULFATE	2MKH	LAFAYETTE 014	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48990	8	MG/L	1055	SULFATE	2MKV	BR METRO AIRPORT WEL	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49940	10	MG/L	1055	SULFATE	2CFP	LULA 017	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49945	11	MG/L	1055	SULFATE	2CFQ	LULA 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49950	10	MG/L	1055	SULFATE	2CFR	LULA 019	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49955	9	MG/L	1055	SULFATE	2CFS	LULA 020	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49960	9	MG/L	1055	SULFATE	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49915	11	MG/L	1055	SULFATE	2CFU	LULA 022	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49920	9	MG/L	1055	SULFATE	2CFV	LULA 023	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49925	10	MG/L	1055	SULFATE	2CFW	N. 45TH 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49930	10	MG/L	1055	SULFATE	2CFX	N. 45TH 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49935	11	MG/L	1055	SULFATE	2CFY	N. 45TH 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50355	11	MG/L	1055	SULFATE	2CGD	ONEAL LANE 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50360	8	MG/L	1055	SULFATE	2CGF	RIDGECREST 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50365	9	MG/L	1055	SULFATE	2CGG	RIDGECREST 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50370	10	MG/L	1055	SULFATE	2CGH	RIDGECREST 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50375	7	MG/L	1055	SULFATE	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/20/95	AB51296	9	MG/L	1055	SULFATE	2CFK	GOVERNMENT 006	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	9/20/95	AB51316	9	MG/L	1055	SULFATE	2MKG	GOVERNMENT 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/2/98	AB80715	11	MG/L	1055	SULFATE	2CFW	N. 45TH 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/2/98	AB80735	12	MG/L	1055	SULFATE	2MOQ	N. 45TH 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/8/98	AB80889	13	MG/L	1055	SULFATE	2CFD	CORTANA 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/8/98	AB80894	9	MG/L	1055	SULFATE	2CFE	CORTANA 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/8/98	AB80909	12	MG/L	1055	SULFATE	2CFH	CORTANA 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81139	12	MG/L	1055	SULFATE	2CFO	LAFAYETTE 015	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81129	15	MG/L	1055	SULFATE	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81134	24	MG/L	1055	SULFATE	2CGC	OLOL 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81154	9	MG/L	1055	SULFATE	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81159	6	MG/L	1055	SULFATE	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81164	9	MG/L	1055	SULFATE	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81169	16	MG/L	1055	SULFATE	2CGN	SOUTHERN UNIV. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81144	12	MG/L	1055	SULFATE	2MKH	LAFAYETTE 014	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81174	8	MG/L	1055	SULFATE	2MKV	BR METRO AIRPORT WEL	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81149	13	MG/L	1055	SULFATE	2MKY	LAFAYETTE 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81300	13	MG/L	1055	SULFATE	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81305	7	MG/L	1055	SULFATE	2CEX	BANKSTON 003	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81315	8	MG/L	1055	SULFATE	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81320	8	MG/L	1055	SULFATE	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81325	11	MG/L	1055	SULFATE	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81330	9	MG/L	1055	SULFATE	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81335	9	MG/L	1055	SULFATE	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81780	15	MG/L	1055	SULFATE	2CFK	GOVERNMENT 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81815	10	MG/L	1055	SULFATE	2CFS	LULA 020	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81820	17	MG/L	1055	SULFATE	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81795	16	MG/L	1055	SULFATE	2MKG	GOVERNMENT 005	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81800	16	MG/L	1055	SULFATE	2MKZ	GOVERNMENT 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82041	12	MG/L	1055	SULFATE	2CFN	INTERSTATE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82046	14	MG/L	1055	SULFATE	2CGF	RIDGECREST 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82051	13	MG/L	1055	SULFATE	2CGG	RIDGECREST 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82056	11	MG/L	1055	SULFATE	2CGH	RIDGECREST 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82061	13	MG/L	1055	SULFATE	2CGO	STAN AUBIN 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82066	9	MG/L	1055	SULFATE	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82076	10	MG/L	1055	SULFATE	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82081	9	MG/L	1055	SULFATE	2CGS	TOULON 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82086	11	MG/L	1055	SULFATE	2CGT	WESTMINSTER 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/27/98	AB82979	10	MG/L	1055	SULFATE	2CGD	ONEAL LANE 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/27/98	AB82994	9	MG/L	1055	SULFATE	2MKK	S CHOCTAW 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/27/98	AB82989	9	MG/L	1055	SULFATE	2MLB	S CHOCTAW 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/27/98	AB86479	8	MG/L	1055	SULFATE	2MOZ	INTERSTATE 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/18/00	AC06984	10	MG/L	1055	SULFATE	2MPG	INTERSTATE 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/18/00	AC06989	11	MG/L	1055	SULFATE	2MPH	STUMBERG 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12970	10	MG/L	1055	SULFATE	2CGD	ONEAL LANE 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12975	9	MG/L	1055	SULFATE	2CGE	ONEAL LANE 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12980	9	MG/L	1055	SULFATE	2CGF	RIDGECREST 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12985	10	MG/L	1055	SULFATE	2CGG	RIDGECREST 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12990	9	MG/L	1055	SULFATE	2MKK	S CHOCTAW 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/2/01	AC13020	8	MG/L	1055	SULFATE	2MLB	S CHOCTAW 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/8/01	AC13206	11	MG/L	1055	SULFATE	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/8/01	AC13216	10	MG/L	1055	SULFATE	2CGH	RIDGECREST 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/9/01	AC13211	10	MG/L	1055	SULFATE	2CFK	GOVERNMENT 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/16/01	AC13367	10	MG/L	1055	SULFATE	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/16/01	AC13377	10	MG/L	1055	SULFATE	2MKZ	GOVERNMENT 007	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	5/23/01	AC13489	11	MG/L	1055	SULFATE	2CGT	WESTMINSTER 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/11/01	AC14009	7	MG/L	1055	SULFATE	2CGQ	STUMBERG 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/11/01	AC14029	10	MG/L	1055	SULFATE	2MKG	GOVERNMENT 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/13/01	AC22161	11	MG/L	1055	SULFATE	2MPT	N. 45TH 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22443	12	MG/L	1055	SULFATE	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22448	10	MG/L	1055	SULFATE	2CFW	N. 45TH 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22453	9	MG/L	1055	SULFATE	2CFX	N. 45TH 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22458	9	MG/L	1055	SULFATE	2CFY	N. 45TH 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22463	10	MG/L	1055	SULFATE	2MOQ	N. 45TH 004	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22553	12	MG/L	1055	SULFATE	2CFD	CORTANA 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22558	10	MG/L	1055	SULFATE	2CFE	CORTANA 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22563	9	MG/L	1055	SULFATE	2CFF	CORTANA 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22568	8	MG/L	1055	SULFATE	2CFG	CORTANA 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22573	9	MG/L	1055	SULFATE	2CFH	CORTANA 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22931	9	MG/L	1055	SULFATE	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22936	9	MG/L	1055	SULFATE	2CFL	GREENRIDGE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22941	8	MG/L	1055	SULFATE	2CFZ	N. SHARP 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22946	7	MG/L	1055	SULFATE	2CGA	N. SHARP 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22951	4	MG/L	1055	SULFATE	2CGN	SOUTHERN UNIV. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23511	11	MG/L	1055	SULFATE	2CEV	BANKSTON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23516	9	MG/L	1055	SULFATE	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23521	10	MG/L	1055	SULFATE	2CEY	BANKSTON 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23526	10	MG/L	1055	SULFATE	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23531	9	MG/L	1055	SULFATE	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23918	10	MG/L	1055	SULFATE	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23923	10	MG/L	1055	SULFATE	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23928	11	MG/L	1055	SULFATE	2CFN	INTERSTATE 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23933	10	MG/L	1055	SULFATE	2CFO	LAFAYETTE 015	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23938	10	MG/L	1055	SULFATE	2MKY	LAFAYETTE 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24520	9	MG/L	1055	SULFATE	2CFP	LULA 017	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24525	9	MG/L	1055	SULFATE	2CFQ	LULA 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24530	9	MG/L	1055	SULFATE	2CFR	LULA 019	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24535	9	MG/L	1055	SULFATE	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24540	10	MG/L	1055	SULFATE	2CFU	LULA 022	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24810	7	MG/L	1055	SULFATE	2CEX	BANKSTON 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24815	9	MG/L	1055	SULFATE	2CFS	LULA 020	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24820	8	MG/L	1055	SULFATE	2CFV	LULA 023	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24825	8	MG/L	1055	SULFATE	2CFZ	N. SHARP 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24830	8	MG/L	1055	SULFATE	2CGA	N. SHARP 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/5/02	AC25021	11	MG/L	1055	SULFATE	2CGC	OLOL 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/5/02	AC25026	8	MG/L	1055	SULFATE	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/5/02	AC25031	4	MG/L	1055	SULFATE	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/5/02	AC25036	8	MG/L	1055	SULFATE	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/13/02	AC25016	11	MG/L	1055	SULFATE	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/13/02	AC25266	11	MG/L	1055	SULFATE	2CGO	STAN AUBIN 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	3/13/02	AC25271	9	MG/L	1055	SULFATE	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/13/02	AC25276	10	MG/L	1055	SULFATE	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/20/02	AC25359	11	MG/L	1055	SULFATE	2CGS	TOULON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/20/02	AC25374	9	MG/L	1055	SULFATE	2MOR	S. HAROLDS FERRY 00	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/20/02	AC25379	12	MG/L	1055	SULFATE	2MOZ	INTERSTATE 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/9/03	AC41563	11	MG/L	1055	SULFATE	2MPH	STUMBERG 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/14/03	AC43743	10	MG/L	1055	SULFATE	2MPG	INTERSTATE 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/3/04	AC47126	8	MG/L	1055	SULFATE	2POO	SOUTER WELL 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/25/04	AC47745	8	MG/L	1055	SULFATE	2MKK	S CHOCTAW 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	2/25/04	AC47750	7	MG/L	1055	SULFATE	2MLB	S CHOCTAW 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49691	8	MG/L	1055	SULFATE	2CGD	ONEAL LANE 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49696	8	MG/L	1055	SULFATE	2CGE	ONEAL LANE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49701	9	MG/L	1055	SULFATE	2CGF	RIDGECREST 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49706	9	MG/L	1055	SULFATE	2CGG	RIDGECREST 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49711	10	MG/L	1055	SULFATE	2CGH	RIDGECREST 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50538	7	MG/L	1055	SULFATE	2CFK	GOVERNMENT 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50543	5	MG/L	1055	SULFATE	2CGQ	STUMBERG 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50548	8	MG/L	1055	SULFATE	2CGT	WESTMINSTER 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50553	7	MG/L	1055	SULFATE	2MKG	GOVERNMENT 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50558	7	MG/L	1055	SULFATE	2MKZ	GOVERNMENT 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56420	11	MG/L	1055	SULFATE	2CFD	CORTANA 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56425	10	MG/L	1055	SULFATE	2CFE	CORTANA 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56430	8	MG/L	1055	SULFATE	2CFF	CORTANA 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56435	7	MG/L	1055	SULFATE	2CFG	CORTANA 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56440	7	MG/L	1055	SULFATE	2CFH	CORTANA 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57255	9	MG/L	1055	SULFATE	2CFW	N. 45TH 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57260	8	MG/L	1055	SULFATE	2CFX	N. 45TH 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57280	9	MG/L	1055	SULFATE	2CFY	N. 45TH 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57290	9	MG/L	1055	SULFATE	2MOQ	N. 45TH 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57295	9	MG/L	1055	SULFATE	2MPT	N. 45TH 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/04	AC57740	11	MG/L	1055	SULFATE	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/04	AC57745	9	MG/L	1055	SULFATE	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/04	AC57750	8	MG/L	1055	SULFATE	2CFL	GREENRIDGE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/04	AC57755	4	MG/L	1055	SULFATE	2CGN	SOUTHERN UNIV. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58768	10	MG/L	1055	SULFATE	2CFN	INTERSTATE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58798	7	MG/L	1055	SULFATE	2CFP	LULA 017	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58803	7	MG/L	1055	SULFATE	2CFQ	LULA 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58808	7	MG/L	1055	SULFATE	2CFR	LULA 019	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58813	7	MG/L	1055	SULFATE	2CFS	LULA 020	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58818	7	MG/L	1055	SULFATE	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58773	8	MG/L	1055	SULFATE	2CFU	LULA 022	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58778	7	MG/L	1055	SULFATE	2CFV	LULA 023	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59513	7	MG/L	1055	SULFATE	2CEV	BANKSTON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59518	8	MG/L	1055	SULFATE	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59523	6	MG/L	1055	SULFATE	2CEX	BANKSTON 003	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59528	7	MG/L	1055	SULFATE	2CEY	BANKSTON 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59533	6	MG/L	1055	SULFATE	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59483	6	MG/L	1055	SULFATE	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59488	8	MG/L	1055	SULFATE	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59493	8	MG/L	1055	SULFATE	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59498	7	MG/L	1055	SULFATE	2CFO	LAFAYETTE 015	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59503	9	MG/L	1055	SULFATE	2MKY	LAFAYETTE 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59727	8	MG/L	1055	SULFATE	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59732	9	MG/L	1055	SULFATE	2CGC	OLOL 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59737	7	MG/L	1055	SULFATE	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59742	0	MG/L	1055	SULFATE	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59747	6	MG/L	1055	SULFATE	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59757	9	MG/L	1055	SULFATE	2CGO	STAN AUBIN 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59762	7	MG/L	1055	SULFATE	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59767	8	MG/L	1055	SULFATE	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59772	8	MG/L	1055	SULFATE	2CGS	TOULON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59777	8	MG/L	1055	SULFATE	2MOR	S. HAROLDS FERRY 00	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/16/05	AC60158	7	MG/L	1055	SULFATE	2CFZ	N. SHARP 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	3/16/05	AC60163	7	MG/L	1055	SULFATE	2CGA	N. SHARP 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/17/05	AC60173	9	MG/L	1055	SULFATE	2MOZ	INTERSTATE 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/7/08	AD22707	11	MG/L	1055	SULFATE	2CFN	INTERSTATE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/7/08	AD22712	8	MG/L	1055	SULFATE	2CGQ	STUMBERG 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/7/08	AD22727	11	MG/L	1055	SULFATE	2MOZ	INTERSTATE 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/7/08	AD22717	11	MG/L	1055	SULFATE	2MPG	INTERSTATE 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/7/08	AD22722	9	MG/L	1055	SULFATE	2MPH	STUMBERG 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/20/09	AD28520	8	MG/L	1055	SULFATE	2MKK	S CHOCTAW 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/20/09	AD28525	7	MG/L	1055	SULFATE	2MLB	S CHOCTAW 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	12/7/09	AD34643	9	MG/L	1055	SULFATE	2CGT	WESTMINSTER 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/09	AD35235	0	MG/L	1055	SULFATE	2MOR	S. HAROLDS FERRY 00	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/15/10	AD36092	6	MG/L	1055	SULFATE	2CEX	BANKSTON 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/15/10	AD36097	8	MG/L	1055	SULFATE	2CEY	BANKSTON 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/15/10	AD36102	6	MG/L	1055	SULFATE	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/15/10	AD36107	7	MG/L	1055	SULFATE	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/15/10	AD36112	6	MG/L	1055	SULFATE	2CFZ	N. SHARP 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/1/10	AD36422	9	MG/L	1055	SULFATE	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/1/10	AD36427	9	MG/L	1055	SULFATE	2CGC	OLOL 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	3/29/10	AD37217	9	MG/L	1055	SULFATE	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/29/10	AD37222	9	MG/L	1055	SULFATE	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/29/10	AD37227	8	MG/L	1055	SULFATE	2CFL	GREENRIDGE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/29/10	AD37232	10	MG/L	1055	SULFATE	2CGO	STAN AUBIN 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/29/10	AD37237	9	MG/L	1055	SULFATE	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/5/10	AD37367	8	MG/L	1055	SULFATE	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/5/10	AD37372	7	MG/L	1055	SULFATE	2CFS	LULA 020	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/5/10	AD37377	8	MG/L	1055	SULFATE	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/5/10	AD37382	7	MG/L	1055	SULFATE	2CGA	N. SHARP 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	4/5/10	AD37387	9	MG/L	1055	SULFATE	2CGS	TOULON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/19/10	AD37910	7	MG/L	1055	SULFATE	2AAX	SOUTER DRIVE 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/19/10	AD37915	8	MG/L	1055	SULFATE	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/19/10	AD37920	8	MG/L	1055	SULFATE	2XYN	SOUTER WELL 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/19/10	AD37925	7	MG/L	1055	SULFATE	2XYO	SOUTER WELL 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/19/10	AD37930	0	MG/L	1055	SULFATE	2XYP	SOUTER WELL 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/26/10	AD38191	7	MG/L	1055	SULFATE	2CFP	LULA 017	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/26/10	AD38196	8	MG/L	1055	SULFATE	2CFQ	LULA 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/26/10	AD38201	8	MG/L	1055	SULFATE	2CFR	LULA 019	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	4/26/10	AD38206	8	MG/L	1055	SULFATE	2CFU	LULA 022	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	4/26/10	AD38211	7	MG/L	1055	SULFATE	2CFV	LULA 023	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/3/10	AD38395	7	MG/L	1055	SULFATE	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/1/10	AD48194	9	MG/L	1055	SULFATE	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/11	AD50185	8	MG/L	1055	SULFATE	2CEV	BANKSTON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/11	AD50190	8	MG/L	1055	SULFATE	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/11	AD50195	2	MG/L	1055	SULFATE	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/11	AD50200	8	MG/L	1055	SULFATE	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/11	AD50205	11	MG/L	1055	SULFATE	2MKY	LAFAYETTE 018	RW

Groundwater Total Dissolved Solids Data

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36930	396	MG/L	1930	TDS	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36935	248	MG/L	1930	TDS	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36940	213	MG/L	1930	TDS	2CGE	ONEAL LANE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36945	278	MG/L	1930	TDS	2MKY	LAFAYETTE 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/17/94	AB36950	214	MG/L	1930	TDS	2MKZ	GOVERNMENT 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/5/95	AB46084	232	MG/L	1930	TDS	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/5/95	AB46089	219	MG/L	1930	TDS	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/5/95	AB46099	267	MG/L	1930	TDS	2CFN	INTERSTATE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/5/95	AB46104	212	MG/L	1930	TDS	2CGO	STAN AUBIN 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47828	234	MG/L	1930	TDS	2CFD	CORTANA 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47833	221	MG/L	1930	TDS	2CFE	CORTANA 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47838	224	MG/L	1930	TDS	2CFF	CORTANA 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47843	213	MG/L	1930	TDS	2CFG	CORTANA 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47848	215	MG/L	1930	TDS	2CFH	CORTANA 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47853	212	MG/L	1930	TDS	2CFL	GREENRIDGE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47858	216	MG/L	1930	TDS	2CFZ	N. SHARP 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47863	215	MG/L	1930	TDS	2CGA	N. SHARP 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47868	44	MG/L	1930	TDS	2MKK	S CHOCTAW 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	7/18/95	AB47873	193	MG/L	1930	TDS	2MLB	S CHOCTAW 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48302	200	MG/L	1930	TDS	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48307	209	MG/L	1930	TDS	2CGQ	STUMBERG 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48312	149	MG/L	1930	TDS	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48317	239	MG/L	1930	TDS	2CGS	TOULON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/24/95	AB48322	248	MG/L	1930	TDS	2CGT	WESTMINSTER 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48638	215	MG/L	1930	TDS	2CEV	BANKSTON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48643	202	MG/L	1930	TDS	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48648	200	MG/L	1930	TDS	2CEX	BANKSTON 003	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48653	201	MG/L	1930	TDS	2CEY	BANKSTON 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/2/95	AB48658	202	MG/L	1930	TDS	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48950	207	MG/L	1930	TDS	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48970	476	MG/L	1930	TDS	2CFO	LAFAYETTE 015	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48975	251	MG/L	1930	TDS	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48980	267	MG/L	1930	TDS	2CGC	OLOL 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48955	197	MG/L	1930	TDS	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48960	648	MG/L	1930	TDS	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48965	430	MG/L	1930	TDS	2CGN	SOUTHERN UNIV. 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48985	289	MG/L	1930	TDS	2MKH	LAFAYETTE 014	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/9/95	AB48990	202	MG/L	1930	TDS	2MKV	BR METRO AIRPORT WEL	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49940	211	MG/L	1930	TDS	2CFP	LULA 017	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49945	226	MG/L	1930	TDS	2CFQ	LULA 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49950	200	MG/L	1930	TDS	2CFR	LULA 019	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49955	233	MG/L	1930	TDS	2CFS	LULA 020	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49960	191	MG/L	1930	TDS	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49915	229	MG/L	1930	TDS	2CFU	LULA 022	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49920	208	MG/L	1930	TDS	2CFV	LULA 023	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49925	220	MG/L	1930	TDS	2CFW	N. 45TH 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49930	213	MG/L	1930	TDS	2CFX	N. 45TH 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	8/23/95	AB49935	216	MG/L	1930	TDS	2CFY	N. 45TH 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50355	206	MG/L	1930	TDS	2CGD	ONEAL LANE 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50360	210	MG/L	1930	TDS	2CGF	RIDGECREST 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50365	224	MG/L	1930	TDS	2CGG	RIDGECREST 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50370	222	MG/L	1930	TDS	2CGH	RIDGECREST 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/6/95	AB50375	204	MG/L	1930	TDS	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/20/95	AB51296	219	MG/L	1930	TDS	2CFK	GOVERNMENT 006	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	9/20/95	AB51316	225	MG/L	1930	TDS	2MKG	GOVERNMENT 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/2/98	AB80715	208	MG/L	1930	TDS	2CFW	N. 45TH 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/2/98	AB80735	212	MG/L	1930	TDS	2MOQ	N. 45TH 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/8/98	AB80889	234	MG/L	1930	TDS	2CFD	CORTANA 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/8/98	AB80894	214	MG/L	1930	TDS	2CFE	CORTANA 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/8/98	AB80909	208	MG/L	1930	TDS	2CFH	CORTANA 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81139	430	MG/L	1930	TDS	2CFO	LAFAYETTE 015	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81129	252	MG/L	1930	TDS	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81134	280	MG/L	1930	TDS	2CGC	OLOL 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81154	196	MG/L	1930	TDS	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81159	672	MG/L	1930	TDS	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81164	194	MG/L	1930	TDS	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81169	470	MG/L	1930	TDS	2CGN	SOUTHERN UNIV. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81144	276	MG/L	1930	TDS	2MKH	LAFAYETTE 014	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81174	220	MG/L	1930	TDS	2MKV	BR METRO AIRPORT WEL	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/15/98	AB81149	274	MG/L	1930	TDS	2MKY	LAFAYETTE 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81300	196	MG/L	1930	TDS	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81305	178	MG/L	1930	TDS	2CEX	BANKSTON 003	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81315	184	MG/L	1930	TDS	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81320	198	MG/L	1930	TDS	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81325	252	MG/L	1930	TDS	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81330	266	MG/L	1930	TDS	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/22/98	AB81335	222	MG/L	1930	TDS	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81780	212	MG/L	1930	TDS	2CFK	GOVERNMENT 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81815	190	MG/L	1930	TDS	2CFS	LULA 020	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81820	188	MG/L	1930	TDS	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81795	216	MG/L	1930	TDS	2MKG	GOVERNMENT 005	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	7/6/98	AB81800	210	MG/L	1930	TDS	2MKZ	GOVERNMENT 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82041	274	MG/L	1930	TDS	2CFN	INTERSTATE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82046	186	MG/L	1930	TDS	2CGF	RIDGECREST 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82051	198	MG/L	1930	TDS	2CGG	RIDGECREST 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82056	196	MG/L	1930	TDS	2CGH	RIDGECREST 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82061	210	MG/L	1930	TDS	2CGO	STAN AUBIN 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82066	204	MG/L	1930	TDS	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82076	200	MG/L	1930	TDS	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82081	256	MG/L	1930	TDS	2CGS	TOULON 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	7/13/98	AB82086	284	MG/L	1930	TDS	2CGT	WESTMINSTER 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/27/98	AB82979	212	MG/L	1930	TDS	2CGD	ONEAL LANE 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/27/98	AB82994	204	MG/L	1930	TDS	2MKK	S CHOCTAW 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	7/27/98	AB82989	198	MG/L	1930	TDS	2MLB	S CHOCTAW 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/27/98	AB86479	238	MG/L	1930	TDS	2MOZ	INTERSTATE 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/18/00	AC06984	246	MG/L	1930	TDS	2MPG	INTERSTATE 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/18/00	AC06989	262	MG/L	1930	TDS	2MPH	STUMBERG 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12970	554	MG/L	1930	TDS	2CGD	ONEAL LANE 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12975	448	MG/L	1930	TDS	2CGE	ONEAL LANE 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12980	360	MG/L	1930	TDS	2CGF	RIDGECREST 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12985	414	MG/L	1930	TDS	2CGG	RIDGECREST 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/1/01	AC12990	624	MG/L	1930	TDS	2MKK	S CHOCTAW 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/2/01	AC13020	180	MG/L	1930	TDS	2MLB	S CHOCTAW 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/8/01	AC13206	262	MG/L	1930	TDS	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/8/01	AC13216	210	MG/L	1930	TDS	2CGH	RIDGECREST 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/9/01	AC13211	222	MG/L	1930	TDS	2CFK	GOVERNMENT 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/16/01	AC13367	206	MG/L	1930	TDS	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/16/01	AC13377	230	MG/L	1930	TDS	2MKZ	GOVERNMENT 007	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	5/23/01	AC13489	328	MG/L	1930	TDS	2CGT	WESTMINSTER 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/11/01	AC14009	188	MG/L	1930	TDS	2CGQ	STUMBERG 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/11/01	AC14029	198	MG/L	1930	TDS	2MKG	GOVERNMENT 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/13/01	AC22161	228	MG/L	1930	TDS	2MPT	N. 45TH 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22443	244	MG/L	1930	TDS	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22448	218	MG/L	1930	TDS	2CFW	N. 45TH 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22453	184	MG/L	1930	TDS	2CFX	N. 45TH 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22458	210	MG/L	1930	TDS	2CFY	N. 45TH 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/19/01	AC22463	202	MG/L	1930	TDS	2MOQ	N. 45TH 004	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22553	220	MG/L	1930	TDS	2CFD	CORTANA 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22558	240	MG/L	1930	TDS	2CFE	CORTANA 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22563	228	MG/L	1930	TDS	2CFF	CORTANA 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22568	204	MG/L	1930	TDS	2CFG	CORTANA 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/26/01	AC22573	192	MG/L	1930	TDS	2CFH	CORTANA 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22931	326	MG/L	1930	TDS	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22936	200	MG/L	1930	TDS	2CFL	GREENRIDGE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22941	212	MG/L	1930	TDS	2CFZ	N. SHARP 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22946	198	MG/L	1930	TDS	2CGA	N. SHARP 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	12/11/01	AC22951	448	MG/L	1930	TDS	2CGN	SOUTHERN UNIV. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23511	212	MG/L	1930	TDS	2CEV	BANKSTON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23516	202	MG/L	1930	TDS	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23521	210	MG/L	1930	TDS	2CEY	BANKSTON 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23526	192	MG/L	1930	TDS	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/8/02	AC23531	182	MG/L	1930	TDS	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23918	174	MG/L	1930	TDS	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23923	268	MG/L	1930	TDS	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23928	266	MG/L	1930	TDS	2CFN	INTERSTATE 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23933	242	MG/L	1930	TDS	2CFO	LAFAYETTE 015	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/22/02	AC23938	236	MG/L	1930	TDS	2MKY	LAFAYETTE 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24520	224	MG/L	1930	TDS	2CFP	LULA 017	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24525	218	MG/L	1930	TDS	2CFQ	LULA 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24530	254	MG/L	1930	TDS	2CFR	LULA 019	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24535	192	MG/L	1930	TDS	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/13/02	AC24540	246	MG/L	1930	TDS	2CFU	LULA 022	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24810	204	MG/L	1930	TDS	2CEX	BANKSTON 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24815	212	MG/L	1930	TDS	2CFS	LULA 020	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24820	216	MG/L	1930	TDS	2CFV	LULA 023	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24825	214	MG/L	1930	TDS	2CFZ	N. SHARP 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/26/02	AC24830	224	MG/L	1930	TDS	2CGA	N. SHARP 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/5/02	AC25021	212	MG/L	1930	TDS	2CGC	OLOL 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/5/02	AC25026	160	MG/L	1930	TDS	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/5/02	AC25031	600	MG/L	1930	TDS	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/5/02	AC25036	162	MG/L	1930	TDS	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/13/02	AC25016	232	MG/L	1930	TDS	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/13/02	AC25266	226	MG/L	1930	TDS	2CGO	STAN AUBIN 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	3/13/02	AC25271	212	MG/L	1930	TDS	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/13/02	AC25276	198	MG/L	1930	TDS	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/20/02	AC25359	264	MG/L	1930	TDS	2CGS	TOULON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/20/02	AC25374	260	MG/L	1930	TDS	2MOR	S. HAROLDS FERRY 00	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/20/02	AC25379	266	MG/L	1930	TDS	2MOZ	INTERSTATE 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	9/9/03	AC41563	274	MG/L	1930	TDS	2MPH	STUMBERG 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	10/14/03	AC43743	228	MG/L	1930	TDS	2MPG	INTERSTATE 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/3/04	AC47126	238	MG/L	1930	TDS	2POO	SOUTER WELL 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/25/04	AC47745	144	MG/L	1930	TDS	2MKK	S CHOCTAW 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	2/25/04	AC47750	178	MG/L	1930	TDS	2MLB	S CHOCTAW 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49691	216	MG/L	1930	TDS	2CGD	ONEAL LANE 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49696	240	MG/L	1930	TDS	2CGE	ONEAL LANE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49701	218	MG/L	1930	TDS	2CGF	RIDGECREST 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49706	220	MG/L	1930	TDS	2CGG	RIDGECREST 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	5/11/04	AC49711	462	MG/L	1930	TDS	2CGH	RIDGECREST 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50538	280	MG/L	1930	TDS	2CFK	GOVERNMENT 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50543	238	MG/L	1930	TDS	2CGQ	STUMBERG 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50548	430	MG/L	1930	TDS	2CGT	WESTMINSTER 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50553	264	MG/L	1930	TDS	2MKG	GOVERNMENT 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	6/9/04	AC50558	248	MG/L	1930	TDS	2MKZ	GOVERNMENT 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56420	202	MG/L	1930	TDS	2CFD	CORTANA 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56425	204	MG/L	1930	TDS	2CFE	CORTANA 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56430	212	MG/L	1930	TDS	2CFF	CORTANA 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56435	184	MG/L	1930	TDS	2CFG	CORTANA 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/3/04	AC56440	192	MG/L	1930	TDS	2CFH	CORTANA 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57255	206	MG/L	1930	TDS	2CFW	N. 45TH 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57260	186	MG/L	1930	TDS	2CFX	N. 45TH 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57280	210	MG/L	1930	TDS	2CFY	N. 45TH 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57290	208	MG/L	1930	TDS	2MOQ	N. 45TH 004	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	11/30/04	AC57295	204	MG/L	1930	TDS	2MPT	N. 45TH 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/04	AC57740	238	MG/L	1930	TDS	2CFB	CONVENTION 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/04	AC57745	510	MG/L	1930	TDS	2CFC	CONVENTION 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/04	AC57750	188	MG/L	1930	TDS	2CFL	GREENRIDGE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	12/14/04	AC57755	438	MG/L	1930	TDS	2CGN	SOUTHERN UNIV. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58768	10	MG/L	1930	TDS	2CFN	INTERSTATE 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58798	220	MG/L	1930	TDS	2CFP	LULA 017	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58803	218	MG/L	1930	TDS	2CFQ	LULA 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58808	288	MG/L	1930	TDS	2CFR	LULA 019	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58813	204	MG/L	1930	TDS	2CFS	LULA 020	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58818	224	MG/L	1930	TDS	2CFT	LULA 021	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58773	252	MG/L	1930	TDS	2CFU	LULA 022	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	1/19/05	AC58778	194	MG/L	1930	TDS	2CFV	LULA 023	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59513	198	MG/L	1930	TDS	2CEV	BANKSTON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59518	208	MG/L	1930	TDS	2CEW	BANKSTON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59523	178	MG/L	1930	TDS	2CEX	BANKSTON 003	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59528	214	MG/L	1930	TDS	2CEY	BANKSTON 005	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59533	202	MG/L	1930	TDS	2CEZ	BANKSTON 006	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59483	228	MG/L	1930	TDS	2CFA	BANKSTON 007	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59488	140	MG/L	1930	TDS	2CFI	GOVERNMENT 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59493	192	MG/L	1930	TDS	2CFJ	GOVERNMENT 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59498	514	MG/L	1930	TDS	2CFO	LAFAYETTE 015	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	2/23/05	AC59503	266	MG/L	1930	TDS	2MKY	LAFAYETTE 018	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59727	226	MG/L	1930	TDS	2CGB	OLOL 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59732	226	MG/L	1930	TDS	2CGC	OLOL 002	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59737	206	MG/L	1930	TDS	2CGI	ROBIN ST. 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59742	684	MG/L	1930	TDS	2CGJ	ROBIN ST. 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/2/05	AC59747	188	MG/L	1930	TDS	2CGK	ROBIN ST. 003	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59757	204	MG/L	1930	TDS	2CGO	STAN AUBIN 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59762	196	MG/L	1930	TDS	2CGP	STAN AUBIN 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59767	280	MG/L	1930	TDS	2CGR	TOULON 001	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59772	280	MG/L	1930	TDS	2CGS	TOULON 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/3/05	AC59777	210	MG/L	1930	TDS	2MOR	S. HAROLDS FERRY 00	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/16/05	AC60158	202	MG/L	1930	TDS	2CFZ	N. SHARP 001	RW

PWS ID	PWD NAME	SOURCE	COLLECTION DATE	SAMPLE ID	REPORTED MSR	UOM	ANALYTE CODE	TSAANLYT NAME	POC	FACILITY NAME	WATER TYPE
LA1033005	BATON ROUGE WATER COMPANY	GW	3/16/05	AC60163	202	MG/L	1930	TDS	2CGA	N. SHARP 002	RW
LA1033005	BATON ROUGE WATER COMPANY	GW	3/17/05	AC60173	226	MG/L	1930	TDS	2MOZ	INTERSTATE 003	RW

Appendix D5 – Soil Information

Ascension Parish

Physical Soil Properties

Ascension Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
Ac:														
Acy	0-6	---	---	10-27	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	6-41	---	---	27-35	1.35-1.60	1.41-4.23	0.20-0.22	3.0-5.9	0.5-1.0	.32	.32			
	41-65	---	---	14-35	1.35-1.70	1.41-4.23	0.20-0.22	0.0-2.9	0.0-0.5	.32	.32			
At:														
Aquents	---	---	---	---	---	---	---	---	---	---	---	5	8	0
BA:														
Barbary	0-5	---	---	---	0.15-0.50	14.11-42.34	0.20-0.50	0.0-2.9	30-70	---	---	5	8	0
	5-77	1-3	---	60-95	0.25-1.00	0.00-0.42	0.18-0.20	0.0-2.9	2.0-25	.32	.32			
Ca:														
Calhoun	0-19	---	---	10-27	1.30-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	19-51	---	---	22-35	1.30-1.70	0.42-1.41	0.20-0.22	3.0-5.9	0.5-1.0	.43	.43			
	51-75	---	---	10-30	1.40-1.70	1.41-4.23	0.21-0.23	0.0-2.9	0.0-0.5	.43	.43			
Cm:														
Commerce	0-10	---	---	14-27	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.43	.43	5	6	56
	10-38	---	---	14-39	1.35-1.65	1.41-4.23	0.20-0.22	3.0-5.9	0.5-1.0	.32	.32			
	38-75	---	---	14-40	1.35-1.65	1.41-14.11	0.20-0.23	0.0-2.9	0.5-1.0	.37	.37			
Co:														
Commerce	0-10	---	---	27-39	1.25-1.45	1.41-4.23	0.15-0.19	3.0-5.9	0.5-4.0	.37	.37	5	7	38
	10-38	---	---	14-39	1.35-1.65	1.41-4.23	0.20-0.22	3.0-5.9	0.5-1.0	.32	.32			
	38-60	---	---	14-40	1.35-1.65	1.41-14.11	0.20-0.23	0.0-2.9	0.5-1.0	.37	.37			

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Physical Soil Properties

Ascension Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
Cs:														
Convent	0-14	---	---	0-18	1.30-1.65	4.23-14.11	0.18-0.23	0.0-2.9	0.5-3.0	.43	.43	5	5	56
	14-36	---	---	0-18	1.30-1.65	4.23-14.11	0.20-0.23	0.0-2.9	0.5-1.0	.37	.37			
	36-76	---	---	0-18	1.30-1.65	4.23-14.11	0.20-0.23	0.0-2.9	0.5-1.0	.37	.37			
CV:														
Convent	0-14	---	---	0-18	1.30-1.65	4.23-14.11	0.18-0.23	0.0-2.9	0.5-3.0	.43	.43	5	5	56
	14-36	---	---	0-18	1.30-1.65	4.23-14.11	0.20-0.23	0.0-2.9	0.5-1.0	.37	.37			
	36-76	---	---	0-18	1.30-1.65	4.23-14.11	0.20-0.23	0.0-2.9	0.5-1.0	.37	.37			
Dp:														
Deerford	0-12	---	---	5-27	1.30-1.70	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	3	5	56
	12-45	---	---	10-35	1.30-1.80	0.42-1.41	0.12-0.18	3.0-5.9	0.5-1.0	.49	.49			
	45-65	---	---	10-35	1.30-1.80	1.41-4.23	0.12-0.18	3.0-5.9	0.0-0.5	.49	.49			
Patoutville	0-8	---	---	8-15	1.35-1.65	1.41-4.23	0.20-0.23	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	8-36	---	---	18-35	1.35-1.65	0.42-1.41	0.20-0.22	3.0-5.9	0.0-0.5	.37	.37			
	36-60	---	---	18-35	1.35-1.65	0.42-4.23	0.20-0.22	3.0-5.9	0.0-0.5	.37	.37			
Dv:														
Deerford	0-12	---	---	5-27	1.30-1.70	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	3	5	56
	12-45	---	---	10-35	1.30-1.80	0.42-1.41	0.12-0.18	3.0-5.9	0.5-1.0	.49	.49			
	45-65	---	---	10-35	1.30-1.80	1.41-4.23	0.12-0.18	3.0-5.9	0.0-0.5	.49	.49			
Verdun	0-4	---	---	5-20	1.35-1.65	1.41-4.23	0.21-0.24	0.0-2.9	0.5-2.0	.49	.49	3	5	56
	4-27	---	---	18-35	1.35-1.65	0.00-0.42	0.11-0.20	3.0-5.9	0.0-0.5	.49	.49			
	27-60	---	---	15-35	1.35-1.65	0.42-1.41	0.10-0.20	0.0-2.9	0.0-0.5	.49	.49			

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Physical Soil Properties

Ascension Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
Es:														
Essen	0-7	---	---	10-26	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-2.0	.49	.49	5	5	56
	7-47	---	---	18-30	1.35-1.65	1.41-4.23	0.20-0.22	3.0-5.9	0.0-0.5	.37	.37			
	47-66	---	---	18-30	1.35-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.0-0.5	.37	.37			
FA:														
Fausse	0-2	1-3	---	40-95	0.80-1.45	0.00-0.42	0.18-0.20	9.0-25.0	2.0-15	.20	.20	5	4	86
	2-9	1-3	---	40-95	0.80-1.45	0.00-0.42	0.18-0.20	9.0-25.0	1.0-3.0	.20	.20			
	9-35	1-3	---	60-95	1.10-1.35	0.00-0.42	0.18-0.20	9.0-25.0	0.5-1.0	.24	.24			
	35-76	---	---	35-95	1.10-1.45	0.00-1.41	0.18-0.22	9.0-25.0	0.0-0.5	.24	.24			
FG:														
Fausse	0-2	1-3	---	40-95	0.80-1.45	0.00-0.42	0.18-0.20	9.0-25.0	2.0-15	.20	.20	5	4	86
	2-9	1-3	---	40-95	0.80-1.45	0.00-0.42	0.18-0.20	9.0-25.0	1.0-3.0	.20	.20			
	9-35	1-3	---	60-95	1.10-1.35	0.00-0.42	0.18-0.20	9.0-25.0	0.5-1.0	.24	.24			
	35-76	---	---	35-95	1.10-1.45	0.00-1.41	0.18-0.22	9.0-25.0	0.0-0.5	.24	.24			
Galvez	0-6	---	---	27-39	1.40-1.65	1.41-4.23	0.20-0.22	3.0-5.9	0.5-4.0	.37	.37	5	7	38
	6-43	---	---	14-39	1.35-1.70	1.41-4.23	0.20-0.22	3.0-5.9	0.5-1.0	.32	.32			
	43-62	---	---	20-50	1.20-1.70	1.41-4.23	0.20-0.23	3.0-5.9	0.0-0.5	.32	.32			
Fo:														
Foley	0-11	---	---	10-20	1.25-1.60	4.23-14.11	0.16-0.22	0.0-2.9	0.5-2.0	.43	.43	3	5	56
	11-23	---	---	5-20	1.25-1.50	1.41-4.23	0.16-0.24	0.0-2.9	0.5-1.0	.43	.43			
	23-42	---	---	20-35	1.25-1.50	0.00-0.42	0.18-0.22	3.0-5.9	0.5-1.0	.43	.43			
	42-65	---	---	15-25	1.25-1.50	0.00-0.42	0.16-0.22	0.0-2.9	0.5-1.0	.49	.49			

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Physical Soil Properties

Ascension Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
Fo:														
Deerford	0-12	---	---	5-27	1.30-1.70	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	3	5	56
	12-45	---	---	10-35	1.30-1.80	0.42-1.41	0.12-0.18	3.0-5.9	0.5-1.0	.49	.49			
	45-65	---	---	10-35	1.30-1.80	1.41-4.23	0.12-0.18	3.0-5.9	0.0-0.5	.49	.49			
Fr:														
Frost	0-8	---	---	8-22	1.35-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	8-64	---	---	18-35	1.35-1.70	0.42-1.41	0.20-0.22	3.0-5.9	0.5-1.0	.37	.37			
Ga:														
Galvez	0-6	---	---	14-27	1.35-1.70	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.43	.43	5	5	56
	6-43	---	---	14-39	1.35-1.70	1.41-4.23	0.20-0.22	3.0-5.9	0.5-1.0	.32	.32			
	43-62	---	---	20-50	1.20-1.70	1.41-4.23	0.20-0.23	3.0-5.9	0.0-0.5	.32	.32			
Gb:														
Galvez	0-6	---	---	27-39	1.40-1.65	1.41-4.23	0.20-0.22	3.0-5.9	0.5-4.0	.37	.37	5	7	38
	6-43	---	---	14-39	1.35-1.70	1.41-4.23	0.20-0.22	3.0-5.9	0.5-1.0	.32	.32			
	43-62	---	---	20-50	1.20-1.70	1.41-4.23	0.20-0.23	3.0-5.9	0.0-0.5	.32	.32			
Je:														
Jeanerette	0-7	---	---	10-26	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	7-37	---	---	18-35	1.35-1.70	1.41-4.23	0.20-0.22	3.0-5.9	0.5-1.0	.37	.37			
	37-62	---	---	14-35	1.35-1.70	1.41-4.23	0.20-0.23	3.0-5.9	0.5-1.0	.37	.37			
MeE:														
Memphis	0-7	---	---	8-22	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	1.0-2.0	.49	.49	5	5	56
	7-12	---	---	20-35	1.30-1.50	4.23-14.11	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49			
	12-70	---	---	12-25	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	0.0-0.5	.49	.49			

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Physical Soil Properties

Ascension Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
Ov:														
Olivier	0-5	---	---	8-18	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	3	5	56
	5-25	---	---	18-35	1.35-1.65	1.41-4.23	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
	25-61	---	---	14-27	1.40-1.80	0.42-1.41	0.11-0.15	0.0-2.9	0.0-0.5	.43	.43			
Sa:														
Sharkey	0-9	---	---	27-35	1.35-1.55	1.41-4.23	0.20-0.22	3.0-5.9	0.5-4.0	.37	.37	5	7	38
	9-44	1-3	---	60-90	1.20-1.50	0.00-0.42	0.07-0.14	9.0-25.0	0.0-0.5	.28	.28			
	44-62	---	---	25-90	1.20-1.70	0.42-1.41	0.12-0.22	6.0-8.9	0.0-0.5	.28	.28			
Sc:														
Sharkey	0-9	---	---	40-60	1.20-1.50	0.00-0.42	0.07-0.14	9.0-25.0	0.5-4.0	.32	.32	5	4	86
	9-44	1-3	---	60-90	1.20-1.50	0.00-0.42	0.07-0.14	9.0-25.0	0.0-0.5	.28	.28			
	44-62	---	---	25-90	1.20-1.70	0.42-1.41	0.12-0.22	6.0-8.9	0.0-0.5	.28	.28			
Sf:														
Sharkey	0-9	---	---	40-60	1.20-1.50	0.00-0.42	0.12-0.18	9.0-25.0	0.5-4.0	.32	.32	5	4	86
	9-44	1-3	---	60-90	1.20-1.50	0.00-0.42	0.07-0.14	9.0-25.0	0.0-0.5	.28	.28			
	44-62	---	---	25-90	1.20-1.65	0.42-1.41	0.12-0.18	6.0-8.9	0.0-0.5	.28	.28			
Tu:														
Tunica	0-9	---	---	35-75	1.45-1.55	0.00-0.42	0.15-0.20	6.0-8.9	1.0-3.0	.32	.32	5	4	86
	9-28	---	---	35-75	1.45-1.55	0.00-0.42	0.15-0.20	6.0-8.9	0.0-0.5	.32	.32			
	28-60	---	---	10-32	1.40-1.50	0.42-14.11	0.10-0.22	0.0-2.9	0.0-0.5	.32	.32			
Va:														
Vacherie	0-26	---	---	10-18	1.35-1.70	4.23-14.11	0.11-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5	56
	26-64	---	---	40-65	1.20-1.60	0.00-0.42	0.08-0.19	9.0-25.0	0.0-0.5	.32	.32			

USDA Natural Resources Conservation Service

This report shows only the major soils in each map unit. Others may exist.

Tabular Data Version: 5
Tabular Data Version Date: 04/12/2007

Page 5 of 6

Physical Soil Properties

Ascension Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
W:														
Water, large	---	---	---	---	---	---	---	---	---	---	---	---	---	---

USDA Natural Resources Conservation Service

Tabular Data Version: 5
Tabular Data Version Date: 04/12/2007

This report shows only the major soils in each map unit. Others may exist.

Page 6 of 6

*** Primary Characterization Data ***

Pedon ID: 95LA005001 (Ascension Parish, Louisiana) Print Date: Aug 10 2011 1:38PM

Sampled as : Lemanville ; Clayey over loamy, montmorillonitic, nonacid, hyperthermic Vertic Epiaquept
Revised to :

SSL - Project CP95LA277 LOUISIANA-MLRA 131 NO. 1
- Site ID 95LA005001 Lat: 30° 6' 14.30" north Long: 90° 56' 7.80" west MLRA: 131
- Pedon No. 95P1074
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Natural Resources Conservation Service
National Soil Survey Center
Soil Survey Laboratory
Lincoln, Nebraska 68508-3866

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
95P06409	Ap	Ap	0-14				C	C
95P06410	Ass	Ass	14-31				C	C
95P06411	Bss1	Bss1	31-41				C	C
95P06412	Bss2	Bss2	41-57				C	C
95P06413	Bss3	Bss3	57-76				C	SIC
95P06414	2Bwb	2Bwb	76-99				SIL	SIL
95P06415	2C	2C	99-131				SIL	SIL
95P06416	3C1	3C1	131-150				SICL	SICL
95P06417	3C2	3C2	150-180				C	SIC
95P06418	3Cg	3Cg	180-195				C	SIC
95P06419	4C	4C	195-215				SIC	SIC

Pedon Calculations

Calculation Name	Result	Units of Measure
Weighted Particles, 0.1-75mm, 75 mm Base	1	% wt
Clay, total, Weighted Average	51	% wt
Volume, >2mm, Weighted Average	0	% vol
Clay, carbonate free, Weighted Average	51	% wt
CEC Activity, CEC7/Clay, Weighted Average	0.79	(NA)

Weighted averages based on control section: 25-100 cm

*** Primary Characterization Data ***

Pedon ID: 95LA005001 (Ascension Parish, Louisiana) Print Date: Aug 10 2011 1:38PM
Sampled As : Lemanville Clayey over loamy, montmorillonitic, nonacid, hyperthermic Vertic Epiaquept
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 95P1074

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1- Clay < .002	-2- Silt .002 -.05	-3- Sand .05 -2	-4- Clay Fine < .0002	-5- CO_3 < .002	-6- Silt Fine .002 -.02	-7- Silt Coarse .02 -.05	-8- Sand VF .05 -.10	-9- Sand F .10 -.25	-10- Sand M .25 -.50	-11- Sand C .5 -1	-12- Sand VC 1 -2	-13- Rock Fragments (mm) Weight 2 -5	-14- 5 -20	-15- 20 -75	-16- .1-75	-17- >2 mm wt % whole soil
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - -)					(Rock Fragments (mm))				
				% of <2mm Mineral Soil												% of <75mm				
				3A1	3A1	3A1			3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	3B1	3B1		
95P06409	0-14	Ap	S	67.6	31.2	1.2			23.4	7.8	0.8	0.1	0.1	tr	0.2	--	--	--	tr	--
95P06410	14-31	Ass	S	70.3	28.6	1.1			21.2	7.4	0.9	0.1	0.1	tr	tr	--	--	--	tr	--
95P06411	31-41	Bss1	S	81.9	17.3	0.8			12.5	4.8	0.4	0.1	0.1	0.1	0.1	--	--	--	tr	--
95P06412	41-57	Bss2	S	75.7	23.6	0.7			21.3	2.3	0.3	0.2	0.1	tr	0.1	--	--	--	tr	--
95P06413	57-76	Bss3	S	46.1	52.4	1.5			38.7	13.7	1.0	0.3	0.1	0.1	tr	--	--	--	1	--
95P06414	76-99	2Bwb	S	20.7	74.0	5.3			40.5	33.5	4.5	0.5	0.2	0.1	tr	--	--	--	1	--
95P06415	99-131	2C	S	23.6	72.9	3.5			46.1	26.8	2.7	0.5	0.2	0.1	tr	--	--	--	1	--
95P06416	131-150	3C1	S	31.8	66.8	1.4			61.3	5.5	0.4	0.4	0.3	0.2	0.1	--	--	--	1	--
95P06417	150-180	3C2	S	40.9	57.9	1.2			55.5	2.4	0.4	0.3	0.3	0.1	0.1	--	--	--	1	--
95P06418	180-195	3Cg	S	53.2	45.0	1.8			43.7	1.3	0.5	0.7	0.4	0.2	tr	--	--	--	1	--
95P06419	195-215	4C	S	54.1	45.1	0.8			43.8	1.3	0.3	0.2	0.2	0.1	--	--	--	--	1	--

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- 33 kPa	-2- Oven Dry	-3- Cole Whole Soil	-4- 6 kPa	-5- 10 kPa	-6- 33 kPa	-7- 1500 kPa	-8- 1500 kPa Moist	-9- Ratio AD/OD	-10- WRD Whole Soil	-11- Aggst Stabl 2-0.5mm	-12- CEC7	-13- 1500 kPa
				(Bulk Density)			(- - - - - - - - - - - Water Content - - - - - - - - - - -)						WRD	Aggst	(- - Ratio/Clay - -)	
				(- - - g cm^{-3} - - -)			(- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)						cm^3 cm^{-3}	%		
				4A1d	4A1h				4B1c	4B2a		4B5	4C1		8D1	8D1
95P06409	0-14	Ap	S	1.21	1.87	0.156			39.1	27.6		1.054	0.14		0.73	0.41
95P06410	14-31	Ass	S	1.21	1.92	0.166			40.3	28.6		1.057	0.14		0.71	0.41
95P06411	31-41	Bss1	S	1.11	1.80	0.175			45.6	32.6		1.066	0.14		0.67	0.40
95P06412	41-57	Bss2	S	1.06	1.84	0.202			52.3	30.6		1.059	0.23		0.66	0.40
95P06413	57-76	Bss3	S	1.11	1.76	0.166			49.7	22.4		1.041	0.30		0.75	0.49
95P06414	76-99	2Bwb	S	1.48	1.54	0.013			27.4	12.8		1.025	0.22		0.99	0.62
95P06415	99-131	2C	S	1.14	1.53	0.103			46.1	14.4		1.027	0.36		0.92	0.61
95P06416	131-150	3C1	S	1.37	1.56	0.044			34.7	18.5		1.033	0.22		0.83	0.58
95P06417	150-180	3C2	S	1.27	1.61	0.082			38.6	22.2		1.038	0.21		0.78	0.54
95P06418	180-195	3Cg	S	1.18	1.69	0.127			43.1	26.1		1.045	0.20		0.74	0.49
95P06419	195-215	4C	S							26.0		1.047			0.71	0.48

*** Primary Characterization Data ***

Pedon ID: 95LA005001 (Ascension Parish, Louisiana) Print Date: Aug 10 2011 1:38PM
Sampled As : Lemanville Clayey over loamy, montmorillonitic, nonacid, hyperthermic Vertic Epiaquept
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 95P1074

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
				pct <0.4mm		(- - - - - - - - g cm^{-3} - - - - - - -)			(- % of < 2mm -)							
				4F1	4F											
95P06409	0-14	Ap	S	75	50											
95P06409[1]	0-14		S	75	50											
95P06414	76-99	2Bwb	S	38	17											
95P06414[2]	76-99		S	38	17											
95P06417	150-180	3C2	S	59	34											
95P06417[3]	150-180		S	59	34											

[1,2,3] Multiple values present due to instrumentation or analyzed size fraction. See laboratory for more information.

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- (- - - - - Total - - - - -) C	-2- N	-3- S	-4- Org C	-5- C/N Ratio	-6- (- - - Dith-Cit Ext - - -) Fe	-7- Al	-8- Mn	-9- (- - - - - - Ammonium Oxalate Extraction - - - - - -) Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- (- - - Na Pyro-Phosphate - - -) C	-16- Fe	-17- Al	-18- Mn
				(- - - - - - % of <2 mm - - - - - -)					(- % of < 2mm - - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
				6A2e	6B4a		6A1c														
95P06409	0-14	Ap	S	1.73	0.214		1.62	8													
95P06410	14-31	Ass	S	1.26	0.175		1.13	6													
95P06411	31-41	Bss1	S	0.67	0.118		0.58	5													
95P06412	41-57	Bss2	S	0.57	0.115		0.48	4													
95P06413	57-76	Bss3	S	0.53	0.089		0.44	5													
95P06414	76-99	2Bwb	S	0.71	0.070		0.42	6													
95P06415	99-131	2C	S	0.80	0.065		0.42	6													
95P06416	131-150	3C1	S	0.82	0.084		0.51	6													
95P06417	150-180	3C2	S	0.78	0.097		0.69	7													
95P06418	180-195	3Cg	S	1.02	0.112		1.05	9													
95P06419	195-215	4C	S	0.87	0.114		0.80	7													

*** Primary Characterization Data ***

Pedon ID: 95LA005001 (Ascension Parish, Louisiana) Print Date: Aug 10 2011 1:38PM
Sampled As : Lemanville Clayey over loamy, montmorillonitic, nonacid, hyperthermic Vertic Epiaquept
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 95P1074

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- Sum Bases	-6- Acid-ity	-7- Extr Al	-8- KCl Mn	-9- CEC8 Sum Cats	-10- CEC7 NH_4 OAC	-11- ECEC Bases +Al	-12- Al Sat	-13- Base Sum	-14- Base NH_4OAC
				(- - - - - - NH_4OAC Extractable Bases - - - - -)								CEC8	CEC7	ECEC		(- - - - Base - - - -)	
																(- Saturation -)	
				(- - - - - - - - - - - - - - - - - - cmol(+) kg^{-1} -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)			(- - - - - - - - % - - - - - - - -)		
				6N2e	6O2d	6P2b	6Q2b		6H5a			5A3a	5A8c			5C3	5C1
95P06409	0-14	Ap	S	34.4	10.9	0.3	1.1	46.7	11.4			58.1	49.4			80	95
95P06410	14-31	Ass	S	37.9*	11.8	0.4	1.0	51.1	2.9			54.0	49.9			95	100
95P06411	31-41	Bss1	S	43.3*	14.1	0.6	1.2		2.6				54.6			96	100
95P06412	41-57	Bss2	S	37.8*	12.8	0.6	1.1		3.7				49.9			93	100
95P06413	57-76	Bss3	S	29.6*	11.5	0.6	0.8		1.5				34.5			97	100
95P06414	76-99	2Bwb	S	30.1*	8.1	0.4	0.4		1.7				20.4			96	100
95P06415	99-131	2C	S	43.3*	8.1	0.4	0.5						21.8			100	100
95P06416	131-150	3C1	S	41.1*	10.1	0.3	0.7		1.3				26.5			98	100
95P06417	150-180	3C2	S	29.6*	11.8	0.3	0.8		3.1				32.1			93	100
95P06418	180-195	3Cg	S	30.6*	10.2	0.3	1.0	42.1	3.3			45.4	39.6			93	100
95P06419	195-215	4C	S	29.6*	9.9	0.4	1.0	40.9	3.3			44.2	38.5			93	100

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- CO_3	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O	-16- Total Salts	-17- Elec Cond	-18- Pred Elec Cond	-19- Exch Na %	-20- SAR
				(- - - - - Water Extracted From Saturated Paste -)																			
				(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)								(- - - - % - - - -)		(- - dS m^{-1} - -)		5D2	
95P06409	0-14	Ap	S																			1	
95P06410	14-31	Ass	S																			1	
95P06411	31-41	Bss1	S																			1	
95P06412	41-57	Bss2	S																			1	
95P06413	57-76	Bss3	S																			2	
95P06414	76-99	2Bwb	S																			2	
95P06415	99-131	2C	S																			2	
95P06416	131-150	3C1	S																			1	
95P06417	150-180	3C2	S																			1	
95P06418	180-195	3Cg	S																			1	
95P06419	195-215	4C	S																			1	

*** Primary Characterization Data ***

Pedon ID: 95LA005001 (Ascension Parish, Louisiana) Print Date: Aug 10 2011 1:38PM

Sampled As : Lemanville Clayey over loamy, montmorillonitic, nonacid, hyperthermic Vertic Epiaquept

USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 95P1074

pH & Carbonates

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
										As $CaCO_3$		As $CaSO_4$*$2H_2O$		Resist
	Depth				$CaCl_2$ 0.01M	H_2O	Sat			<2mm	<20mm	<2mm	<20mm	ohms
Layer	(cm)	Horz	Prep	KCl	1:2	1:1	Paste	Sulf	NaF	(- - - - - - - - - - - - - % - - - - - - - - - - - -)				cm^{-1}
					4C1a2a	4C1a2a				6E1g				
95P06409	0-14	Ap	S		6.2	6.5								
95P06410	14-31	Ass	S		7.2	7.5				tr				
95P06411	31-41	Bss1	S		7.5	7.8				1				
95P06412	41-57	Bss2	S		7.4	7.8				1				
95P06413	57-76	Bss3	S		7.4	7.9				1				
95P06414	76-99	2Bwb	S		7.4	8.2				3				
95P06415	99-131	2C	S		7.5	8.2				4				
95P06416	131-150	3C1	S		7.5	7.9				3				
95P06417	150-180	3C2	S		7.3	7.8				1				
95P06418	180-195	3Cg	S		7.1	7.6				tr				
95P06419	195-215	4C	S		7.0	7.5				tr				

*** Primary Characterization Data ***

Pedon ID: 95LA005001 (Ascension Parish, Louisiana) Print Date: Aug 10 2011 1:38PM

Sampled As : Lemanville Clayey over loamy, montmorillonitic, nonacid, hyperthermic Vertic Epiaquept

USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 95P1074

Clay Mineralogy (<.002 mm)

Layer	Depth (cm)	Horz	Fraction	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
						X-Ray					Thermal					Elemental				EGME	Interpretation
													SiO_2	Al_2O_3	Fe_2O_3	MgO	CaO	K_2O	Na_2O	Retn	
						7A2i															
				(- - - - - - - - - peak size - - - - - - - - - -)					(- - - - - - - - - % - - - - - - - - - -)				(- - - - - - - - - - - - - - - - - - - % - - - - - - - - - - - - - - - - - - -)							mg g^{-1}	
95P06409	0-14	Ap	tcly	MT 3	KK 3	MI 3	VR 2	QZ 2													
95P06412	41-57	Bss2	tcly	MT 3	KK 3	MM 2	MI 2	QZ 2													
95P06415	99-131	2C	tcly	MT 3	MI 3	KK 2	VR 2	MM 2													
				QZ 1																	

FRACTION INTERPRETATION:

tcly - Total Clay, <0.002 mm

MINERAL INTERPRETATION:

KK - Kaolinite MI - Mica MM - Montmorillonite-Mica MT - Montmorillonite QZ - Quartz

VR - Vermiculite

RELATIVE PEAK SIZE: 5 Very Large 4 Large 3 Medium 2 Small 1 Very Small 6 No Peaks

*** Primary Characterization Data ***

Pedon ID: 97LA005002 (Ascension Parish, Louisiana) Print Date: Aug 10 2011 1:38PM

Sampled as : Cancienne ; Fine-silty, mixed, nonacid, hyperthermic Fluvaquentic Epiaquept
Revised to :

SSL - Project CP97LA097 LOUISIANA HYPERTHERMIC 1
- Site ID 97LA005002 Lat: 30° 10' 14.90" north Long: 90° 59' 7.10" west MLRA: 131
- Pedon No. 97P0457
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Natural Resources Conservation Service
National Soil Survey Center
Soil Survey Laboratory
Lincoln, Nebraska 68508-3866

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
97P02712	Ap	Ap	0-16				SIL	SIL
97P02713	A	A	16-34				SIL	SIL
97P02714	Bw1	Bw1	34-68				SICL	SIL
97P02715	Bw2	Bw2	68-91				SIL	SIL
97P02716	Bw3	Bw3	91-107				SIL	SIL
97P02717	Bw4	Bw4	107-134				SIC	SIL
97P02718	Bw5	Bw5	134-139				SIC	SIL
97P02719	Bw6	Bw6	139-156				SIL	SIL
97P02720	2Bssg1	2Bssg1	156-180				C	SICL
97P02721	2Bssg2	2Bssg2	180-207				C	SIC
97P02722	2Bssg3	2Bssg3	207-239				C	SIC

Pedon Calculations

Calculation Name	Result	Units of Measure
Clay, total, Weighted Average	20	% wt
LE, Whole Soil, Summed to 1m	3	cm/m
Weighted Particles, 0.1-75mm, 75 mm Base	1	% wt
Volume, >2mm, Weighted Average	0	% vol
Clay, carbonate free, Weighted Average	20	% wt
CEC Activity, CEC7/Clay, Weighted Average	1.1	(NA)

Weighted averages based on control section: 25-100 cm

*** Primary Characterization Data ***

Pedon ID: 97LA005002 (Ascension Parish, Louisiana) Print Date: Aug 10 2011 1:38PM
Sampled As : Cancienne Fine-silty, mixed, nonacid, hyperthermic Fluvaquentic Epiaquept
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0457

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1- Clay < .002	-2- Silt .002 -.05	-3- Sand .05 -2	-4- Clay Fine < .0002	-5- CO_3 < .002	-6- Silt Fine .002 -.02	-7- Silt Coarse .02 -.05	-8- Sand VF .05 -.10	-9- Sand F .10 -.25	-10- Sand M .25 -.50	-11- Sand C .5 -1	-12- Sand VC 1 -2	-13- Rock Fragments (mm) Weight 2 -5	-14- Rock Fragments (mm) Weight 5 -20	-15- Rock Fragments (mm) Weight 20 -75	-16- Rock Fragments (mm) Weight .1-75	-17- >2 mm wt % whole soil
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - -)					(Rock Fragments (mm))				
				(- % of <2mm Mineral Soil -)												(- - - - - - - Weight - - - - - - - -)				
				3A1	3A1	3A1			3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	(- - - - - - - % of <75mm - - - - - -) 3B1	3B1		
97P02712	0-16	Ap	S	14.1	72.1	13.8			26.8	45.3	13.2	0.5	0.1	tr	--	--	--	--	1	--
97P02713	16-34	A	S	17.7	70.7	11.6			28.5	42.2	11.2	0.4	tr	--	tr	--	--	--	tr	--
97P02714	34-68	Bw1	S	21.5	62.7	15.8			27.7	35.0	14.9	0.7	0.2	tr	tr	--	--	--	1	--
97P02715	68-91	Bw2	S	19.9	65.6	14.5			29.9	35.7	13.7	0.7	0.1	--	tr	--	--	--	1	--
97P02716	91-107	Bw3	S	16.9	72.7	10.4			27.5	45.2	9.8	0.4	0.1	0.1	tr	--	--	--	1	--
97P02717	107-134	Bw4	S	19.6	69.6	10.8			28.5	41.1	10.3	0.4	0.1	tr	tr	--	--	--	1	--
97P02718	134-139	Bw5	S	22.1	67.2	10.7			29.3	37.9	10.1	0.5	0.1	tr	--	--	--	--	1	--
97P02719	139-156	Bw6	S	20.6	75.3	4.1			35.6	39.7	3.8	0.2	0.1	tr	--	--	--	--	tr	--
97P02720	156-180	2Bssg1	S	39.7	59.6	0.7			42.4	17.2	0.6	0.1	tr	--	--	--	--	--	tr	--
97P02721	180-207	2Bssg2	S	58.7	40.6	0.7			34.4	6.2	0.6	0.1	tr	tr	--	--	--	--	tr	--
97P02722	207-239	2Bssg3	S	50.5	48.7	0.8			40.2	8.5	0.5	0.2	0.1	tr	--	--	--	--	tr	--

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa (- - - g cm^{-3} - - -) 4A1d	-2- (Bulk Density) Oven Dry (- - - g cm^{-3} - - -) 4A1h	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa (- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)	-5- 10 kPa	-6- 33 kPa 4B1c	-7- 1500 kPa 4B2a	-8- 1500 kPa Moist	-9- Ratio AD/OD 4B5	-10- WRD Whole Soil cm^3 cm^{-3} 4C1	-11- Aggst Stabl 2-0.5mm %	-12- (- - Ratio/Clay - -) CEC7 8D1	-13- (- - Ratio/Clay - -) 1500 kPa 8D1
97P02712	0-16	Ap	S	1.35	1.46	0.026			30.7	8.1		1.017	0.31		1.28	0.57
97P02713	16-34	A	S	1.44	1.55	0.025			26.5	8.8		1.022	0.25		1.13	0.50
97P02714	34-68	Bw1	S	1.34	1.46	0.029			28.7	11.6		1.028	0.23		1.10	0.54
97P02715	68-91	Bw2	S	1.40	1.49	0.021			28.6	10.6		1.024	0.25		1.08	0.53
97P02716	91-107	Bw3	S	1.33	1.45	0.029			31.6	9.5		1.024	0.29		1.12	0.56
97P02717	107-134	Bw4	S	1.31	1.45	0.034			32.5	10.9		1.027	0.28		1.10	0.56
97P02718	134-139	Bw5	S	1.30	1.43	0.032			32.4	12.0		1.028	0.27		1.07	0.54
97P02719	139-156	Bw6	S	1.28	1.44	0.040			33.5	11.4		1.028	0.28		1.12	0.55
97P02720	156-180	2Bssg1	S	1.21	1.69	0.118			40.7	20.2		1.046	0.25		0.92	0.51
97P02721	180-207	2Bssg2	S	1.18	1.80	0.151			42.4	25.3		1.067	0.20		0.86	0.43
97P02722	207-239	2Bssg3	S	1.16	1.75	0.147			41.8	23.6		1.059	0.21		0.90	0.47

*** Primary Characterization Data ***

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Sampled As : Cancienne Fine-silty, mixed, nonacid, hyperthermic Fluvaquentic Epiaquept
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0457

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
				pct <0.4mm		(- - - - - - - g cm^{-3} - - - - - - -)			(- % of < 2mm -)							
				4F1	4F										4B1a	
97P02712	0-16	Ap	S	33	10										12.5	
97P02712[1]	0-16		S	33	10											
97P02713	16-34	A	S												13.8	
97P02714	34-68	Bw1	S												18.8	
97P02715	68-91	Bw2	S												16.8	
97P02716	91-107	Bw3	S	32	13										13.3	
97P02716[2]	91-107		S	32	13											
97P02717	107-134	Bw4	S												15.6	
97P02718	134-139	Bw5	S												17.6	
97P02719	139-156	Bw6	S												17.6	
97P02720	156-180	2Bssg1	S												29.8	
97P02721	180-207	2Bssg2	S												36.2	
97P02722	207-239	2Bssg3	S												32.7	

[1,2] Multiple values present due to instrumentation or analyzed size fraction. See laboratory for more information.

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USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0457

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- (- - - - - Total - - - - -) C	-2- N	-3- S	-4- Org C	-5- C/N Ratio	-6- (- - - Dith-Cit Ext - - -) Fe	-7- Al	-8- Mn	-9- (- - - - - - Ammonium Oxalate Extraction - - - - - -) Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- (- - - Na Pyro-Phosphate - - -) C	-16- Fe	-17- Al	-18- Mn
				(- - - - - - % of <2 mm - - - - - -)					(- % of < 2mm - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
					6B4a		6A1c														
97P02712	0-16	Ap	S		0.161		1.21	8													
97P02713	16-34	A	S		0.090		0.65	7													
97P02714	34-68	Bw1	S		0.065		0.47	7													

97P02715	68-91	Bw2	S	0.052	0.36	7
97P02716	91-107	Bw3	S	0.055	0.28	5
97P02717	107-134	Bw4	S		0.30	
97P02718	134-139	Bw5	S		0.34	
97P02719	139-156	Bw6	S		0.37	
97P02720	156-180	2Bssg1	S		0.59	
97P02721	180-207	2Bssg2	S		0.73	
97P02722	207-239	2Bssg3	S		0.73	

CEC & Bases

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-
				(- - - - - - NH_4OAC Extractable Bases - - - - -)								CEC8	CEC7	ECEC		(- - - - Base - - - -)	
								Sum	Acid-	Extr	KCl	Sum	NH_4	Bases	Al	(- Saturation -)	
	Depth			Ca	Mg	Na	K	Bases	ity	Al	Mn	Cats	OAC	+Al	Sat	Sum	NH_4OAC
Layer	(cm)	Horz	Prep	(- - - - - - - - - - - - - - - - - cmol(+) kg^{-1} -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)				(- - - - - - - - % - - - - - - - -)	
				6N2e	6O2d	6P2b	6Q2b		6H5a	6G9c	6D3b	5A3a	5A8b			5C3	5C1
97P02712	0-16	Ap	S	12.7	3.4	0.5	0.4	17.0	5.1	--	3.8	22.1	18.0			77	94
97P02713	16-34	A	S	14.4*	4.2	1.1	0.4	20.1	5.4			25.5	20.0			79	100
97P02714	34-68	Bw1	S	17.6*	5.8	1.1	0.5	25.0	3.6			28.6	23.6			87	100
97P02715	68-91	Bw2	S	16.1*	6.8	1.7	0.5	25.1	3.3			28.4	21.5			88	100
97P02716	91-107	Bw3	S	17.3*	7.7	1.1	0.5		2.2				18.9			92	100
97P02717	107-134	Bw4	S	15.8*	9.8	1.2	0.5		2.3				21.6			92	100
97P02718	134-139	Bw5	S	17.1*	8.4	1.5	0.7	27.7	3.4			31.1	23.6			89	100
97P02719	139-156	Bw6	S	16.1*	7.3	1.2	0.8	25.4	2.7			28.1	23.0			90	100
97P02720	156-180	2Bssg1	S	22.1	9.2	1.4	1.1	33.8	4.8			38.6	36.7			88	92
97P02721	180-207	2Bssg2	S	32.9	12.7	1.6	1.4	48.6	5.5			54.1	50.4			90	96
97P02722	207-239	2Bssg3	S	29.8	11.3	2.0	1.3	44.4	4.7			49.1	45.5			90	98

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

*** Primary Characterization Data ***

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USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0457

Salt

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-	-19-	-20-
				(- Water Extracted From Saturated Paste -)																			
																			Total	Elec	Pred Elec	Exch	
	Depth			Ca	Mg	Na	K	CO_3	HCO_3	F	Cl	PO_4	Br	OAC	SO_4	NO_2	NO_3	H_2O	Salts	Cond	Cond	Na	SAR
Layer	(cm)	Horz	Prep	(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)										(- - - - % - - - -)		(- - dS m^{-1} - -)		%	
																						5D2	
97P02712	0-16	Ap	S																			3	
97P02713	16-34	A	S																			6	
97P02714	34-68	Bw1	S																			5	
97P02715	68-91	Bw2	S																			8	
97P02716	91-107	Bw3	S																			6	
97P02717	107-134	Bw4	S																			6	
97P02718	134-139	Bw5	S																			6	
97P02719	139-156	Bw6	S																			5	

97P02720	156-180	2Bssg1	S		4
97P02721	180-207	2Bssg2	S		3
97P02722	207-239	2Bssg3	S		4

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2 4C1a2a	-3- H_2O 1:1 4C1a2a	-4- Sat Paste	-5- Sulf	-6- NaF	-7- Carbonate As $CaCO_3$ <2mm 6E1g	-8- Carbonate As $CaCO_3$ <20mm	-9- Gypsum As $CaSO_4$*$2H_2O$ <2mm	-10- Gypsum As $CaSO_4$*$2H_2O$ <20mm	-11- Resist ohms cm^{-1}
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
										(- - - - - - - - - - - - % - - - - - - - - - - -)				
97P02712	0-16	Ap	S		5.0	5.6								
97P02713	16-34	A	S		5.5	6.2								
97P02714	34-68	Bw1	S		6.6	7.3								
97P02715	68-91	Bw2	S		7.1	7.8				tr				
97P02716	91-107	Bw3	S		7.1	7.8				1				
97P02717	107-134	Bw4	S		7.1	7.8				1				
97P02718	134-139	Bw5	S		7.1	7.6				tr				
97P02719	139-156	Bw6	S		7.0	7.7				--				
97P02720	156-180	2Bssg1	S		6.6	7.4								
97P02721	180-207	2Bssg2	S		6.7	7.4								
97P02722	207-239	2Bssg3	S		6.7	7.0								

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USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0457

Clay Mineralogy (<.002 mm)

Layer	Depth (cm)	Horz	Fraction	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
						X-Ray					Thermal					Elemental				EGME	Interpretation
													SiO_2	Al_2O_3	Fe_2O_3	MgO	CaO	K_2O	Na_2O	Retn	
				(- - - - - - - - -		7A2i peak size		- - - - - - - - - -)	(- - - - - - - - -		%	- - - - - - - - - -)	(- - - - - - - - - - - - - - - - - - -			%	- - - - - - - - - - - - - - - - - - -)			mg g^{-1}	
97P02714	34-68	Bw1	tcly	MT 4	KK 3	MI 1															
97P02715	68-91	Bw2	tcly	MT 3	KK 2	VR 2	MI 2														
97P02716	91-107	Bw3	tcly	MT 3	KK 2	VR 2	MI 2														

FRACTION INTERPRETATION:
tcly - Total Clay, <0.002 mm

MINERAL INTERPRETATION:
KK - Kaolinite MI - Mica MT - Montmorillonite VR - Vermiculite

RELATIVE PEAK SIZE: 5 Very Large 4 Large 3 Medium 2 Small 1 Very Small 6 No Peaks

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Sand - Silt Mineralogy (2.0-0.002 mm)

Layer	Depth (cm)	Horz	Fraction	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
						X-Ray					Thermal					Optical				EGME	Interpretation
													Tot Re			Grain Count				Retn	
																7B1a					
				(- - - - - - - - peak size - - - - - - - - -)					(- - - - - - - - % - - - - - - - - - -)				(- % - - - - - - - - - - - - - - - - - - -)							mg g^{-1}	
97P02713	16-34	A	csi										62	QZ 53	FK 20	FP 10	CD 6	CM 3	GS 2		
														OP 2	MS 1	BT 1	HN 1	AR 1	PO 1		
														ZE tr	PR tr	FE tr	TM tr	BY tr	GN tr		
														AP tr	SS tr	EP tr	RU tr	ZR tr			
97P02714	34-68	Bw1	csi										66	QZ 57	FK 17	CD 7	FP 6	CM 2	MS 2		
														AR 2	BT 2	GS 1	FE 1	HN 1	PR 1		
														ZE 1	PO 1	BY tr	AP tr	GN tr	OP tr		
														TM tr	KY tr	ZR tr	RU tr				
97P02715	68-91	Bw2	csi										55	QZ 50	FK 18	FP 8	MS 6	CD 4	CM 4		
														BT 3	OP 1	PR 1	GS 1	AR 1	CA 1		
														HN 1	FE tr	ZE tr	AP tr	GN tr	BY tr		
														PO tr	ZR tr	EP tr	SS tr	TM tr			
97P02716	91-107	Bw3	csi										55	QZ 50	FK 20	FP 7	CD 4	AR 4	MS 3		
														BT 3	CA 2	GS 1	CM 1	PR 1	HN 1		
														BY 1	EP 1	OP tr	ZE tr	GN tr	FE tr		
														PO tr	ZR tr	TM tr	AP tr	SS tr			

FRACTION INTERPRETATION:
csi - Coarse Silt, 0.02-0.05 mm

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MINERAL INTERPRETATION:

AP - Apatite	AR - Weatherable Aggregates	BT - Biotite	BY - Beryl	CA - Calcite
CD - Chert (Chalcedony	CM - Chlorite-Mica	EP - Epidote	FE - Iron Oxides (Goethite	FK - Potassium Feldspar
FP - Plagioclase Feldspar	GN - Garnet	GS - Glass	HN - Hornblende	KY - Kyanite
MS - Muscovite	OP - Opaques	PO - Plant Opal	PR - Pyroxene	QZ - Quartz
RU - Rutile	SS - Sponge Spicule	TM - Tourmaline	ZE - Zeolite	ZR - Zircon

*** Glossary of Codes ***

Print Date: Aug 10 2011 1:38PM

Reports: Primary Characterization Report;
Pedons: 95P1074; 97P0457;

*** Method Codes ***

Code	Description
3A1	PSDA, Routine, Pipet
3B1	Particles >2 mm, Weight Estimates
4A1d	Bulk Density, 1/3-Bar Desorption I
4A1h	Bulk Density, Oven-Dry
4B1c	Water Retention, clod, 0.06, 0.1, 0.33, or 1 bar, pressure-plate extraction
4B2a	Water Retention, 15 Bar, Pressure-Plate, <2mm
4B5	Water Retention, ADOD
4C1	derived WRD, 4C1
8D1	Ratio, to Total Clay - 8D1
4B1a	Water Retention, 2 Bar, Pressure-Plate, <2mm
4F	derived Plasticity Index
4F1	Plasticity Index, Liquid Limit
6A1c	Organic Carbon, acid dichromate digestion, FeSO4 titration, automatic titrator
6A2e	Total Carbon, dry combustion, CO2 evolution V
6B4a	Total Nitrogen, dry combustion, N2 Evolution
5A3a	derived CEC_SUM, 5A3a
5A8b	CEC, NH4OAc, pH 7.0, automatic extractor, steam distillation I
5A8c	CEC, NH4OAc, pH 7.0, automatic extractor, steam distillation II
5C1	derived BSESAT, 5C1
5C3	derived BSECAT, 5C3
6D3b	Manganese, 1 N KCl Extractable, Automatic Extractor, Inductively Coupled Plasma Spectrometry II
6G9c	Cations, Potassium Chloride Extractable, 1 N, automatic extractor, ICP II (6G9c)
6H5a	Extractable Acidity, BaCl2-Triethanolamine IV, automatic extractor
6N2e	Calcium, NH4OAc Extraction, Atomic Absorption I
6O2d	Magnesium, NH4OAc Extraction, Atomic Absorption I
6P2b	Sodium, NH4OAc Extraction, Atomic Absorption I
6Q2b	Potassium, NHOAc Extraction, Atomic Absorption I
5D2	derived NA_EXCH, 5D2
4C1a2a	pH, Routine, 1:1 Water and 1:2 0.01M CaCl2
6E1g	Calcium Carbonate Equivalent, HCl, <2mm, manometer, electronic (6E1g)
7A2i	X-ray Diffraction, Thin Film on Glass, Resin Pretreatment II
7B1a	Optical Analysis, Full Grain Count

*** Preparation Codes ***

Code	Description / List of Methods
Sjj	The air-dried soil passing a No. 10-mesh sieve 3A1, 4B2a, 4B5, 4B1a, 4F, 4F1, 6A1c, 6A2e, 6B4a, 5A8b, 5A8c, 6D3b, 6G9c, 6H5a, 6N2e, 6O2d, 6P2b, 6Q2b, 4C1a2a, 6E1g, 7A2i, 7B1a
Caj	The moist soil clod used for bulk density determinations 4A1d, 4A1h, 4B1c

*** Instrument Sets ***

Instrument Set Name	List of Methods
Instrument Not Specified	3A1, 3B1, 4A1d, 4A1h, 4B1c, 4B2a, 4B5, 4B1a, 4F, 4F1, 7A2i, 7B1a

titrator	6A1c, 6H5a
elemental analyzer	6A2e, 6B4a
distillation titirator	5A8b, 5A8c
inductively coupled plasma spectrophotometer	6D3b
atomic adsorption spectrophotometer	6G9c, 6N2e, 6O2d, 6P2b, 6Q2b
pH meter	4C1a2a
manometer	6E1g

*** Analyzed Size Fractions ***

Size Fraction	List of Methods
<2 mm	3A1, 4A1d, 4A1h, 4B1c, 4B2a, 4B5, 8D1, 4B1a, 4F, 4F1, 6A1c, 6A2e, 6B4a, 5A3a, 5A8b, 5A8c, 5C1, 5C3, 6D3b, 6G9c, 6H5a, 6N2e, 6O2d, 6P2b, 6Q2b, 5D2, 4C1a2a, 6E1g
<75 mm	3B1
whole soil	4C1
<0.002 mm	7A2i
0.02-0.05 mm	7B1a

East Baton Rouge Parish

Physical Soil Properties

East Baton Rouge Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Erosion factors Kf	Erosion factors T	Wind erodi-bility group	Wind erodi-bility index
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
AT:														
Aquents	---	---	---	---	---	---	---	---	---	---	---	5	8	0
BoA:														
Bonn	0-5	---	---	---	1.30-1.50	1.41-4.23	0.15-0.23	0.0-2.9	0.5-6.0	.49	.49	3	5	56
	5-22	---	---	---	1.30-1.50	1.41-4.23	0.15-0.23	0.0-2.9	0.0-3.0	.49	.49			
	22-67	---	---	---	1.40-1.75	0.00-0.42	0.08-0.14	0.0-2.9	0.0-1.0	.49	.49			
	67-80	---	---	---	1.40-1.75	0.00-1.41	0.08-0.14	0.0-2.9	0.0-1.0	.49	.49			
BuB:														
Bude	0-5	---	---	10-27	1.40-1.60	4.23-14.11	0.21-0.24	0.0-2.9	0.5-2.0	.49	.49	3	6	48
	5-11	---	---	10-27	1.40-1.60	4.23-14.11	0.21-0.24	0.0-2.9	0.0-0.5	.49	.49			
	11-27	---	---	10-32	1.40-1.65	0.42-1.41	0.14-0.23	3.0-5.9	0.0-0.5	.43	.43			
	27-81	---	---	16-32	1.40-1.65	0.42-1.41	0.11-0.23	3.0-5.9	0.0-0.5	.37	.37			
CcA:														
Calhoun	0-3	---	---	10-27	1.30-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	3-13	---	---	10-27	1.30-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.5-0.8	.49	.49			
	13-60	---	---	22-35	1.30-1.70	0.42-1.41	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
	60-80	---	---	10-30	1.40-1.70	0.42-1.41	0.21-0.23	3.0-5.9	0.0-0.5	.43	.43			
CdA:														
Calhoun	0-3	---	---	10-27	1.30-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	3-22	---	---	10-27	1.30-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.5-0.8	.49	.49			
	22-68	---	---	22-35	1.30-1.65	0.42-1.41	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
	68-80	---	---	10-35	1.30-1.65	0.42-1.41	0.21-0.23	3.0-5.9	0.0-0.5	.43	.43			

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Physical Soil Properties

East Baton Rouge Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
CEA:														
Calhoun	0-4	---	---	10-27	1.30-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	4-17	---	---	10-27	1.30-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.5-1.5	.49	.49			
	17-38	---	---	22-35	1.30-1.65	0.42-1.41	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
	38-80	---	---	10-30	1.30-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.0-0.5	.43	.43			
Cascilla	0-6	---	---	5-20	1.40-1.50	4.23-14.11	0.18-0.22	0.0-2.9	1.0-3.0	.43	.43	5	5	56
	6-37	---	---	18-30	1.45-1.50	4.23-14.11	0.16-0.20	0.0-2.9	0.5-1.0	.43	.43			
	37-80	---	---	5-25	1.40-1.50	4.23-14.11	0.16-0.20	0.0-2.9	0.0-0.5	.43	.43			
CmA:														
Cancienne	0-5	---	---	14-27	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.43	.43	5	6	56
	5-28	---	---	14-39	1.35-1.65	1.41-4.23	0.20-0.22	3.0-5.9	0.5-1.0	.32	.32			
	28-60	---	---	14-40	1.35-1.65	1.41-14.11	0.20-0.23	0.0-2.9	0.5-1.0	.37	.37			
CNA:														
Carville	0-14	---	---	0-18	1.30-1.65	4.23-14.11	0.18-0.23	0.0-2.9	0.5-3.0	.43	.43	5	5	56
	14-80	---	---	0-18	1.30-1.65	4.23-14.11	0.20-0.23	0.0-2.9	0.5-1.0	.37	.37			
Cancienne	0-10	---	---	25-39	1.25-1.45	1.41-4.23	0.15-0.19	3.0-5.9	0.5-4.0	.37	.37	5	7	38
	10-21	---	---	14-39	1.35-1.65	1.41-4.23	0.20-0.22	3.0-5.9	0.5-1.0	.32	.32			
	21-80	---	---	14-42	1.35-1.65	1.41-14.11	0.20-0.23	0.0-2.9	0.5-1.0	.37	.37			
CoB:														
Colyell	0-3	---	---	2-12	1.20-1.65	4.23-14.11	0.14-0.24	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	3-10	---	---	6-19	1.20-1.65	4.23-14.11	0.20-0.24	0.0-2.9	0.0-0.5	.49	.49			
	10-48	---	---	34-60	1.30-1.55	0.42-1.41	0.08-0.19	6.0-8.9	0.0-0.5	.32	.32			
	48-80	---	---	20-38	1.35-1.70	0.42-4.23	0.20-0.22	3.0-5.9	0.0-0.5	.32	.32			

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Physical Soil Properties

East Baton Rouge Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
CoD:														
Colyell	0-3	---	---	2-12	1.20-1.65	4.23-14.11	0.14-0.24	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	3-6	---	---	6-19	1.20-1.65	4.23-14.11	0.20-0.24	0.0-2.9	0.0-0.5	.49	.49			
	6-41	---	---	34-60	1.30-1.55	0.42-1.41	0.08-0.19	6.0-8.9	0.0-0.5	.32	.32			
	41-80	---	---	20-38	1.35-1.70	0.42-4.23	0.20-0.22	3.0-5.9	0.0-0.5	.32	.32			
CRC:														
Convent	0-4	---	---	0-18	1.30-1.65	4.23-14.11	0.18-0.23	0.0-2.9	0.5-3.0	.43	.43	5	5	56
	4-52	---	---	0-18	1.30-1.65	4.23-14.11	0.20-0.23	0.0-2.9	0.5-1.0	.37	.37			
	52-80	---	---	0-18	1.30-1.65	4.23-14.11	0.20-0.23	0.0-2.9	0.5-1.0	.37	.37			
Robinsonville	0-4	---	---	2-10	1.40-1.50	14.00-42.00	0.15-0.22	0.0-2.9	0.5-2.0	.32	.32	5	3	86
	4-80	---	---	5-15	1.50-1.60	4.00-42.00	0.14-0.18	0.0-2.9	0.5-1.0	.32	.32			
CvC:														
Crevasse	0-5	---	---	2-8	1.40-1.50	42.34-141.14	0.02-0.06	0.0-2.9	0.5-2.0	.10	.10	5	1	220
	5-80	---	---	2-8	1.40-1.50	42.34-141.14	0.02-0.06	0.0-2.9	0.0-0.5	.15	.15			
DaA:														
Deerford	0-4	---	---	5-27	1.30-1.70	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	3	5	56
	4-23	---	---	10-35	1.30-1.80	0.42-1.41	0.12-0.18	3.0-5.9	0.5-1.0	.49	.49			
	23-30	---	---	10-35	1.30-1.80	1.41-4.23	0.12-0.18	3.0-5.9	0.0-0.5	.49	.49			
	30-92	---	---	---	---	---	---	---	---	---	---			
Verdun	0-5	---	---	5-20	1.35-1.65	1.41-4.23	0.21-0.24	0.0-2.9	0.5-2.0	.49	.49	3	5	56
	5-40	---	---	18-35	1.35-1.65	0.00-0.42	0.11-0.20	3.0-5.9	0.0-0.8	.49	.49			
	40-80	---	---	15-35	1.35-1.65	0.42-1.41	0.10-0.20	0.0-2.9	0.0-0.5	.49	.49			

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Physical Soil Properties

East Baton Rouge Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
DrB:														
Dexter	0-10	---	---	10-27	1.30-1.70	4.23-14.11	0.15-0.24	0.0-2.9	0.5-4.0	.43	.43	5	5	56
	10-39	---	---	10-35	1.40-1.70	4.23-14.11	0.15-0.24	0.0-2.9	0.0-0.5	.32	.32			
	39-80	---	---	10-30	1.30-1.70	4.23-42.34	0.08-0.18	0.0-2.9	0.0-0.5	.24	.24			
EnA:														
Encrow	0-4	---	---	2-15	1.35-1.65	4.23-14.11	0.14-0.24	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	4-20	---	---	6-38	1.35-1.65	4.23-14.11	0.14-0.24	0.0-2.9	0.5-1.0	.49	.49			
	20-50	---	---	27-60	1.20-1.55	0.42-1.41	0.02-0.19	6.0-8.9	0.0-0.5	.32	.32			
	50-79	---	---	20-38	1.30-1.70	0.42-4.23	0.18-0.24	3.0-5.9	0.0-0.5	.32	.32			
FaA:														
Fausse	0-4	1-3	---	40-95	0.80-1.45	0.00-0.42	0.18-0.20	9.0-25.0	2.0-15	.20	.20	5	4	86
	4-26	1-3	---	60-95	0.80-1.45	0.00-0.42	0.18-0.20	9.0-25.0	1.0-3.0	.20	.20			
	26-45	1-3	---	60-95	1.10-1.35	0.00-0.42	0.18-0.20	9.0-25.0	0.5-1.0	.24	.24			
	45-80	---	---	35-95	1.10-1.45	0.00-1.41	0.18-0.22	9.0-25.0	0.0-0.5	.24	.24			
FeB:														
Feliciana	0-6	---	---	8-22	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	1.0-4.0	.49	.49	5	5	56
	6-12	---	---	8-22	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	1.0-2.0	.49	.49			
	12-43	---	---	20-35	1.30-1.50	4.23-14.11	0.20-0.22	0.0-2.9	0.5-1.0	.49	.49			
	43-99	---	---	12-25	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	0.0-0.5	.49	.49			
FeD:														
Feliciana	0-6	---	---	8-22	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	1.0-4.0	.49	.49	5	5	56
	6-30	---	---	20-35	1.30-1.50	4.23-14.11	0.20-0.22	0.0-2.9	0.5-1.0	.49	.49			
	30-80	---	---	12-25	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	0.0-0.5	.49	.49			

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Physical Soil Properties

East Baton Rouge Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
FeF:														
Feliciana	0-3	---	---	8-22	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	1.0-4.0	.49	.49	5	5	56
	3-51	---	---	20-35	1.30-1.50	4.23-14.11	0.20-0.22	0.0-2.9	0.5-1.0	.49	.49			
	51-80	---	---	12-25	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	0.0-0.5	.49	.49			
FkB:														
Fluker	0-6	---	---	2-12	1.35-1.65	4.23-14.11	0.14-0.24	0.0-2.9	0.5-4.0	.49	.49	3	5	56
	6-12	---	---	6-18	1.35-1.65	4.23-14.11	0.20-0.24	0.0-2.9	0.5-1.0	.49	.49			
	12-31	---	---	18-33	1.35-1.65	4.23-14.11	0.20-0.24	0.0-2.9	0.0-0.5	.43	.43			
	31-49	---	---	6-22	1.45-1.90	0.42-1.41	0.01-0.10	0.0-2.9	0.0-0.5	.32	.32			
	49-82	---	---	6-22	1.45-1.90	0.42-1.41	0.01-0.10	0.0-2.9	0.0-0.5	.32	.32			
FoA:														
Frost	0-4	---	---	8-22	1.35-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	4-20	---	---	8-22	1.35-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.5-1.0	.49	.49			
	20-62	---	---	18-35	1.35-1.75	0.42-1.41	0.20-0.25	3.0-5.9	0.5-1.0	.37	.37			
	62-88	---	---	18-50	1.35-1.70	0.42-1.41	0.20-0.22	3.0-5.9	0.5-1.0	.37	.37			
FrA:														
Frost	0-3	---	---	8-22	1.35-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	3-19	---	---	8-22	1.35-1.65	1.41-4.23	0.21-0.23	0.0-2.9	0.5-1.0	.49	.49			
	19-42	---	---	18-35	1.35-1.75	0.42-1.41	0.20-0.25	3.0-5.9	0.5-1.0	.37	.37			
	42-80	---	---	18-50	1.35-1.70	0.42-1.41	0.20-0.22	3.0-5.9	0.5-1.0	.37	.37			
GaB:														
Galvez	0-7	---	---	14-27	1.35-1.70	4.23-14.10	0.21-0.23	0.0-2.9	0.5-4.0	.43	.43	5	5	56
	7-47	---	---	14-39	1.35-1.70	1.41-4.23	0.20-0.22	3.0-5.9	0.5-1.0	.32	.32			
	47-80	---	---	20-50	1.20-1.70	1.41-4.23	0.20-0.23	3.0-5.9	0.0-0.5	.32	.32			

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Physical Soil Properties

East Baton Rouge Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
GeA:														
Gilbert	0-3	---	---	8-25	1.35-1.65	4.23-14.11	0.22-0.24	0.0-2.9	0.5-4.0	.49	.49	4	5	56
	3-22	---	---	8-25	1.35-1.65	4.23-14.11	0.22-0.24	0.0-2.9	0.5-1.5	.49	.49			
	22-45	---	---	18-35	1.40-1.60	0.00-0.42	0.14-0.23	3.0-5.9	0.5-1.0	.43	.43			
	45-68	---	---	18-35	1.40-1.65	0.00-0.42	0.14-0.23	3.0-5.9	0.0-0.5	.43	.43			
	68-84	---	---	18-35	1.40-1.65	0.00-0.42	0.14-0.23	3.0-5.9	0.0-0.5	.43	.43			
GtA:														
Gilbert	0-5	---	---	8-25	1.35-1.65	4.23-14.11	0.22-0.24	0.0-2.9	0.5-4.0	.49	.49	4	5	56
	5-15	---	---	8-25	1.35-1.65	4.23-14.11	0.22-0.24	0.0-2.9	0.5-1.5	.49	.49			
	15-40	---	---	18-35	1.40-1.60	0.00-0.42	0.14-0.23	3.0-5.9	0.5-1.0	.43	.43			
	40-56	---	---	18-35	1.40-1.65	0.00-0.42	0.14-0.23	3.0-5.9	0.0-0.5	.43	.43			
	56-80	---	---	18-35	1.40-1.65	0.00-0.42	0.14-0.23	3.0-5.9	0.0-0.5	.43	.43			
JeA:														
Jeanerette	0-11	---	---	10-26	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	7-24	---	---	18-35	1.35-1.70	1.41-4.23	0.14-0.23	3.0-5.9	0.5-2.0	.37	.37			
	24-32	---	---	18-35	1.35-1.70	1.41-4.23	0.09-0.21	3.0-5.9	0.5-1.0	.37	.37			
	32-78	---	---	14-35	1.35-1.70	1.41-4.23	0.14-0.23	3.0-5.9	0.5-1.0	.37	.37			
KwB:														
Cahaba	0-7	---	---	5-15	1.30-1.45	14.11-42.34	0.11-0.15	0.0-2.9	0.5-2.0	.24	.24	5	3	86
	7-56	---	---	20-34	1.35-1.55	4.23-14.11	0.12-0.18	3.0-5.9	0.5-1.0	.32	.32			
	56-69	---	---	10-24	1.50-1.65	4.23-14.11	0.12-0.17	0.0-2.9	0.5-1.0	.37	.37			
	69-81	---	---	2-15	1.50-1.69	14.11-42.34	0.06-0.14	0.0-2.9	0.5-1.0	.24	.24			
LE:														
Levees	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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Physical Soil Properties

East Baton Rouge Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
LoB:														
Loring	0-6	---	---	8-18	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	0.5-2.0	.49	.49	3	5	56
	6-23	---	---	18-32	1.40-1.50	4.23-14.11	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43			
	23-51	---	---	15-30	1.50-1.70	0.42-1.41	0.06-0.13	0.0-2.9	0.0-0.5	.43	.43			
	51-70	---	---	10-25	1.30-1.60	1.41-14.11	0.06-0.13	0.0-2.9	0.0-0.5	.43	.43			
LoD:														
Loring	0-4	---	---	8-18	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	0.5-2.0	.49	.49	3	5	56
	4-20	---	---	18-32	1.40-1.50	4.23-14.11	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43			
	20-54	---	---	15-30	1.50-1.70	0.42-1.41	0.06-0.13	0.0-2.9	0.0-0.5	.43	.43			
	54-93	---	---	10-27	1.30-1.60	1.41-14.11	0.06-0.13	0.0-2.9	0.0-0.5	.43	.43			
M-W:														
Water, waste	---	---	---	---	---	---	---	---	---	---	---	---	---	---
OIA:														
Olivier	0-5	---	---	8-18	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	3	5	56
	5-13	---	---	8-18	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-1.5	.49	.49			
	13-28	---	---	18-35	1.35-1.65	1.41-4.23	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
	28-80	---	---	14-27	1.40-1.80	0.42-1.41	0.11-0.15	0.0-2.9	0.0-0.5	.43	.43			
OIB:														
Olivier	0-5	---	---	8-18	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	3	5	56
	5-13	---	---	18-35	1.35-1.65	1.41-4.23	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
	13-46	---	---	14-27	1.40-1.80	0.42-1.41	0.11-0.15	0.0-2.9	0.0-0.5	.43	.43			
	46-80	---	---	14-27	1.40-1.80	0.42-1.41	0.11-0.15	0.0-2.9	0.0-0.5	.43	.43			

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Physical Soil Properties

East Baton Rouge Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
OpA:														
Oprairie	0-4	---	---	8-18	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	4-9	---	---	8-18	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-1.5	.49	.49			
	9-49	---	---	18-35	1.35-1.65	1.41-4.23	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
	49-86	---	---	14-27	1.40-1.80	0.42-1.41	0.11-0.15	0.0-2.9	0.0-0.5	.43	.43			
OpB:														
Oprairie	0-2	---	---	8-18	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	2-10	---	---	8-18	1.35-1.65	4.23-14.11	0.21-0.23	0.0-2.9	0.5-1.5	.49	.49			
	13-28	---	---	18-35	1.35-1.65	1.41-4.23	0.20-0.22	3.0-5.9	0.0-0.5	.43	.43			
	28-80	---	---	14-27	1.40-1.80	0.42-1.41	0.11-0.15	0.0-2.9	0.0-0.5	.43	.43			
OUA:														
Ouachita	0-12	---	---	8-25	1.35-1.60	4.23-14.11	0.15-0.22	0.0-2.9	1.0-2.0	.37	.37	5	5	56
	12-65	---	---	18-35	1.35-1.60	1.41-4.23	0.15-0.22	0.0-2.9	0.5-1.0	.32	.32			
	65-82	---	---	18-35	1.35-1.60	1.41-4.23	0.15-0.22	0.0-2.9	0.5-1.0	.32	.32			
Guyton	0-3	---	---	7-25	1.35-1.65	4.23-14.11	0.20-0.23	0.0-2.9	0.5-4.0	.43	.43	5	5	56
	3-16	---	---	7-25	1.35-1.65	4.23-14.11	0.20-0.23	0.0-2.9	0.5-2.0	.43	.43			
	16-60	---	---	20-35	1.35-1.70	0.42-1.41	0.15-0.22	0.0-2.9	0.5-1.0	.37	.37			
	60-80	---	---	20-35	1.35-1.70	0.42-1.41	0.15-0.22	0.0-2.9	0.5-1.0	.37	.37			
Ochlockonee	0-5	---	---	3-12	1.30-1.70	14.11-42.34	0.06-0.12	0.0-2.9	0.5-2.0	.17	.17	5	2	134
	5-80	---	---	3-18	1.40-1.70	14.11-42.34	0.06-0.12	0.0-2.9	0.5-1.0	.17	.17			
Pt:														
Pits	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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Physical Soil Properties

East Baton Rouge Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
Qt:														
Udipsamments	0-10	---	---	2-8	1.40-1.50	42.34-141.14	0.02-0.06	0.0-2.9	0.5-2.0	.10	.10	5	2	134
	10-80	---	---	2-8	1.40-1.50	42.34-141.14	0.02-0.06	0.0-2.9	0.0-0.5	.15	.15			
SaB:														
Satsuma	0-5	---	---	2-12	1.35-1.65	4.23-14.11	0.14-0.24	0.0-2.9	0.5-4.0	.49	.49	5	5	56
	5-13	---	---	6-18	1.35-1.65	4.23-14.11	0.20-0.24	0.0-2.9	0.5-1.0	.49	.49			
	13-40	---	---	27-45	1.35-1.65	0.42-1.41	0.15-0.18	3.0-5.9	0.5-1.0	.37	.37			
	40-69	---	---	18-30	1.35-1.65	4.23-14.11	0.20-0.24	0.0-2.9	0.5-1.0	.37	.37			
SeA:														
Schriever	0-11	---	---	40-60	1.20-1.50	0.00-0.42	0.07-0.14	9.0-25.0	0.5-4.0	.32	.32	5	4	86
	11-47	1-3	---	60-90	1.20-1.50	0.00-0.42	0.07-0.14	9.0-25.0	0.0-0.5	.28	.28			
	47-75	---	---	25-90	1.20-1.70	0.42-1.41	0.12-0.22	6.0-8.9	0.0-0.5	.28	.28			
SfA:														
Schriever	0-11	---	---	40-60	1.20-1.50	0.00-0.42	0.12-0.18	9.0-25.0	0.5-4.0	.32	.32	5	4	86
	11-41	1-3	---	60-90	1.20-1.50	0.00-0.42	0.07-0.14	9.0-25.0	0.0-0.5	.28	.28			
	41-96	---	---	25-90	1.20-1.65	0.42-1.41	0.12-0.18	6.0-8.9	0.0-0.5	.28	.28			
ShB:														
Schriever, gently undulating	0-4	---	---	40-60	1.20-1.50	0.00-0.42	0.07-0.14	9.0-25.0	0.5-4.0	.32	.32	5	4	86
	4-41	1-3	---	60-90	1.20-1.50	0.00-0.42	0.07-0.14	9.0-25.0	0.0-0.5	.28	.28			
	41-60	---	---	25-90	1.20-1.70	0.42-1.41	0.12-0.22	6.0-8.9	0.0-0.5	.28	.28			
Thibaut	0-5	---	---	35-75	1.45-1.55	0.00-0.42	0.15-0.20	6.0-8.9	1.0-3.0	.32	.32	5	4	86
	5-26	---	---	35-75	1.45-1.55	0.00-0.42	0.15-0.20	6.0-8.9	0.0-0.5	.32	.32			
	26-65	---	---	10-32	1.40-1.50	0.42-14.11	0.10-0.22	0.0-2.9	0.0-0.5	.32	.32			

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Physical Soil Properties

East Baton Rouge Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
SiB:														
Schriever	0-7	---	---	40-60	1.20-1.50	0.00-0.42	0.12-0.18	9.0-25.0	0.5-4.0	.32	.32	5	4	86
	7-55	1-3	---	60-90	1.20-1.50	0.00-0.42	0.07-0.14	9.0-25.0	0.0-0.5	.28	.28			
	55-80	---	---	25-90	1.20-1.65	0.42-1.41	0.12-0.18	6.0-8.9	0.0-0.5	.28	.28			
Thibaut	0-6	---	---	35-75	1.45-1.55	0.00-0.42	0.15-0.20	6.0-8.9	1.0-3.0	.32	.32	5	4	86
	6-26	---	---	35-75	1.45-1.55	0.00-0.42	0.15-0.20	6.0-8.9	0.0-0.5	.32	.32			
	26-60	---	---	10-32	1.40-1.50	0.42-14.11	0.10-0.22	0.0-2.9	0.0-0.5	.32	.32			
SnA:														
Scotlandville	0-7	---	---	8-18	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	0.5-2.0	.49	.49	5	5	56
	7-13	---	---	8-18	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	0.5-1.0	.49	.49			
	13-39	---	---	18-32	1.40-1.50	4.23-14.11	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43			
	39-80	---	---	10-25	1.30-1.60	1.41-14.11	0.06-0.13	0.0-2.9	0.0-0.5	.43	.43			
SnB:														
Scotlandville	0-8	---	---	8-18	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	0.5-2.0	.49	.49	5	5	56
	8-12	---	---	8-18	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	0.5-1.0	.49	.49			
	12-33	---	---	18-32	1.40-1.50	4.23-14.11	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43			
	33-72	---	---	15-30	1.40-1.60	1.41-14.11	0.06-0.13	0.0-2.9	0.0-0.5	.43	.43			
	72-83	---	---	10-25	1.30-1.60	1.41-14.11	0.06-0.13	0.0-2.9	0.0-0.5	.43	.43			
SnD:														
Scotlandville	0-5	---	---	8-18	1.30-1.50	4.23-14.11	0.20-0.23	0.0-2.9	0.5-2.0	.49	.49	5	5	56
	5-35	---	---	18-32	1.40-1.50	4.23-14.11	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43			
	35-80	---	---	15-40	1.40-1.60	1.41-14.11	0.06-0.13	0.0-2.9	0.0-0.5	.43	.43			

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Physical Soil Properties

East Baton Rouge Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
SoB:														
Sharkey	0-7	---	---	40-60	1.20-1.50	0.00-0.42	0.12-0.18	9.0-25.0	0.5-4.0	.32	.32	5	4	86
	7-55	1-3	---	60-90	1.20-1.50	0.00-0.42	0.07-0.14	9.0-25.0	0.0-0.5	.28	.28			
	55-80	---	---	25-90	1.20-1.65	0.42-1.41	0.12-0.18	6.0-8.9	0.0-0.5	.28	.28			
Tunica	0-6	---	---	35-75	1.45-1.55	0.00-0.42	0.15-0.20	6.0-8.9	1.0-3.0	.32	.32	5	4	86
	6-26	---	---	35-75	1.45-1.55	0.00-0.42	0.15-0.20	6.0-8.9	0.0-0.5	.32	.32			
	26-60	---	---	10-32	1.40-1.50	0.42-14.11	0.10-0.22	0.0-2.9	0.0-0.5	.32	.32			
SpA:														
Springfield	0-4	---	---	5-20	1.35-1.65	4.23-14.11	0.21-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5	56
	4-16	---	---	5-20	1.35-1.65	4.23-14.11	0.21-0.24	0.0-2.9	0.5-1.0	.43	.43			
	16-36	---	---	35-60	1.20-1.50	0.42-1.41	0.08-0.19	6.0-8.9	0.5-1.0	.32	.32			
	36-74	---	---	20-38	1.30-1.60	0.42-4.23	0.14-0.23	3.0-5.9	0.0-0.5	.32	.32			
TaD:														
Tangi	0-5	---	---	2-12	1.35-1.65	4.23-14.11	0.20-0.24	0.0-2.9	0.5-4.0	.49	.49	3	5	56
	5-22	---	---	18-30	1.35-1.65	4.23-14.11	0.20-0.24	0.0-2.9	0.0-0.5	.43	.43			
	22-40	---	---	20-35	1.45-1.85	0.42-1.41	0.08-0.14	0.0-2.9	0.0-0.5	.32	.32			
	40-80	---	---	35-55	1.40-1.80	0.00-0.42	0.08-0.14	3.0-5.9	0.0-0.5	.28	.28			
ThA:														
Thibaut	0-5	---	---	35-75	1.45-1.55	0.00-0.42	0.15-0.20	6.0-8.9	1.0-3.0	.32	.32	5	4	86
	5-25	---	---	35-75	1.45-1.55	0.00-0.42	0.15-0.20	6.0-8.9	0.0-0.5	.32	.32			
	25-80	---	---	10-32	1.40-1.50	0.42-14.11	0.10-0.22	0.0-2.9	0.0-0.5	.32	.32			

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Physical Soil Properties

East Baton Rouge Parish, Louisiana

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors			Wind erodi-bility group	Wind erodi-bility index
										Kw	Kf	T		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
TuB:														
Toula	0-4	---	---	2-12	1.35-1.65	4.23-14.11	0.22-0.25	0.0-2.9	0.5-4.0	.49	.49	3	5	56
	4-7	---	---	2-12	1.35-1.65	4.23-14.11	0.22-0.25	0.0-2.9	0.5-1.5	.49	.49			
	7-22	---	---	12-30	1.35-1.65	4.23-14.11	0.14-0.24	0.0-2.9	0.5-1.0	.43	.43			
	22-52	---	---	18-35	1.45-1.85	0.42-1.41	0.08-0.12	0.0-2.9	0.0-0.5	.37	.37			
	52-65	---	---	12-35	1.35-1.85	4.23-14.11	0.11-0.23	0.0-2.9	0.0-0.5	.37	.37			
UA:														
Made land	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UrA:														
Urban land	0-6	---	---	---	---	1.41-4.23	---	---	0.0-0.5	---	---	---	8	0
W:														
Water	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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Physical Soil Properties

This table shows estimates of some physical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

"Depth" to the upper and lower boundaries of each layer is indicated.

Particle size is the effective diameter of a soil particle as measured by sedimentation, sieving, or micrometric methods. Particle sizes are expressed as classes with specific effective diameter class limits. The broad classes are sand, silt, and clay, ranging from the larger to the smaller.

"Sand" as a soil separate consists of mineral soil particles that are 0.05 millimeter to 2 millimeters in diameter. In this table, the estimated sand content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

"Silt" as a soil separate consists of mineral soil particles that are 0.002 to 0.05 millimeter in diameter. In this table, the estimated silt content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

"Clay" as a soil separate consists of mineral soil particles that are less than 0.002 millimeter in diameter. In this table, the estimated clay content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of sand, silt, and clay affects the physical behavior of a soil. Particle size is important for engineering and agronomic interpretations, for determination of soil hydrologic qualities, and for soil classification.

The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, saturated hydraulic conductivity (Ksat), plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earthmoving operations.

"Moist bulk density" is the weight of soil (ovendry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at 1/3- or 1/10-bar (33kPa or 10kPa) moisture tension. Weight is determined after the soil is dried at 105 degrees C. In the table, the estimated moist bulk density of each soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute linear extensibility, shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending on soil texture, a bulk density of more than 1.4 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

"Saturated hydraulic conductivity (Ksat)" refers to the ease with which pores in a saturated soil transmit water. The estimates in the table are expressed in terms of micrometers per second. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Saturated hydraulic conductivity (Ksat) is considered in the design of soil drainage systems and septic tank absorption fields.

"Available water capacity" refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in inches of water per inch of soil for each soil layer. The capacity varies, depending on soil properties that affect retention of water. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. Available water capacity is not an estimate of the quantity of water actually available to plants at any given time.

"Linear extensibility" refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at 1/3- or 1/10-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported in the table as percent change for the whole soil. The amount and type of clay minerals in the soil influence volume change.

Linear extensibility is used to determine the shrink-swell potential of soils. The shrink-swell potential is low if the soil has a linear extensibility of less than 3 percent; moderate if 3 to 6 percent; high if 6 to 9 percent; and very high if more than 9 percent. If the linear extensibility is more than 3, shrinking and swelling can cause damage to buildings, roads, and other structures and to plant roots. Special design commonly is needed.

"Organic matter" is the plant and animal residue in the soil at various stages of decomposition. In this table, the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of organic matter in a soil can be maintained by returning crop residue to the soil. Organic matter has a positive effect on available water capacity, water infiltration, soil organism activity, and tilth. It is a source of nitrogen and other nutrients for crops and soil organisms.

Physical Soil Properties

"Erosion factors" are shown in the table as the K factor (Kw and Kf) and the T factor. Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and Ksat. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

"Erosion factor Kw" indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

"Erosion factor Kf" indicates the erodibility of the fine-earth fraction, or the material less than 2 millimeters in size.

"Erosion factor T" is an estimate of the maximum average annual rate of soil erosion by wind and/or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

"Wind erodibility groups" are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. The groups are described in the "National Soil Survey Handbook."

"Wind erodibility index" is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.

Reference:
United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. (http://www.soils.usda.gov)

*** Primary Characterization Data ***

(East Baton Rouge Parish, Louisiana)

Pedon ID: 61LA033008

Print Date: Aug 10 2011 3:59PM

Sampled as : Calhoun
Revised to correlated on Aug 01, 1992 : Calhoun ; Fine-silty, mixed, active, thermic Typic Glossaqualf

SSL - Project NL40001 SSIR SAMPLES
- Site ID 61LA033008 Lat: 30° 22' 39.00" north Long: 91° 5' 30.00" west MLRA: 134
- Pedon No. 40A1323
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Soil Conservation Service
Lincoln Soil Survey Laboratory
Soil Laboratory
Lincoln, Nebraska

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
40A10070	Ap	AP	0-13	15084				SI
40A10071	Eg	A2 G	13-41	15085				SIL
40A10072	Btg1	B21T G	41-79	15086				SICL
40A10073	Btg2	B22T G	79-104	15087				SIL
40A10074	B1	B31	104-130	15088				SIL
40A10075	B2	B32	130-163	15089				SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
CEC Activity, CEC7/Clay, Weighted Average	0.55	(NA)
Clay, carbonate free, Weighted Average	27	% wt
Weighted Particles, 0.1-75mm, 75 mm Base	2	% wt
Volume, >2mm, Weighted Average	0	% vol
Clay, total, Weighted Average	27	% wt

Weighted averages based on control section: 41-91 cm

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1- Clay < .002	-2- Silt .002 -.05	-3- Sand .05 -2	-4- Fine < .0002	-5- CO_3 < .002	-6- Fine .002 -.02	-7- Coarse .02 -.05	-8- VF .05 -.10	-9- F .10 -.25	-10- M .25 -.50	-11- C .5 -1	-12- VC 1 -2	-13- 2 -5	-14- 5 -20	-15- 20 -75	-16- .1-75	-17- >2 mm wt % whole soil
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - - -)					(Rock Fragments (mm))				
				(- % of <2mm Mineral Soil -)												(- - - - - - - - Weight - - - - - - - -)				
				3A1	3A1	3A1			3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	(- - - - - - - % of <75mm - - - - - -) 3B1	3B1		
40A10070	0-13	Ap	S	8.9	87.4	3.7			34.1	53.3	1.3	0.3	0.1	0.5	1.5	--	--	--	2	--
40A10071	13-41	Eg	S	16.3	81.7	2.0			45.4	36.3	1.0	0.3	0.1	0.2	0.4	--	--	--	1	--
40A10072	41-79	Btg1	S	27.9	69.7	2.4			36.0	33.7	0.8	0.3	0.2	0.5	0.6	--	--	--	2	--
40A10073	79-104	Btg2	S	23.6	72.9	3.5			32.5	40.4	1.1	0.4	0.3	0.8	0.9	--	--	--	2	--
40A10074	104-130	B1	S	17.9	77.6	4.5			33.8	43.8	1.3	0.8	0.5	1.1	0.8	--	--	--	3	--
40A10075	130-163	B2	S	16.7	77.8	5.5			30.9	46.9	1.6	1.1	0.8	1.3	0.7	--	--	--	4	--

*** Primary Characterization Data ***

Pedon ID: 61LA033008 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 3:59PM

Sampled As : Calhoun

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1323

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa (- - - g cm^{-3} - - -)	-2- Oven Dry 4A1h	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa (- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)	-5- 10 kPa	-6- 33 kPa 4B1b	-7- 1500 kPa 4B2a	-8- 1500 kPa Moist	-9- Ratio AD/OD	-10- WRD Whole Soil cm^3 cm^{-3}	-11- Aggst Stabl 2-0.5mm %	-12- (- - Ratio/Clay - -) CEC7	-13- 1500 kPa
40A10070	0-13	Ap	S		1.41				25.2	5.1			0.29		0.67	0.57
40A10071	13-41	Eg	S							7.2					0.48	0.44
40A10072	41-79	Btg1	S		1.54				26.8	12.9			0.20		0.53	0.46
40A10073	79-104	Btg2	S							11.9					0.63	0.50
40A10074	104-130	B1	S							9.5					0.69	0.53
40A10075	130-163	B2	S		1.57				21.8	9.9			0.17		0.77	0.59

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL pct <0.4mm	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field (- - - - - - - - g cm^{-3} - - - - - - -) 4A1a	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field (- % of < 2mm -) 4B4	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
40A10070	0-13	Ap	CLODDB			1.38			27.4							
40A10072	41-79	Btg1	CLODDB			1.48			24.5							
40A10075	130-163	B2	CLODDB			1.53			24.5							

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- (- - - - - Total - - - - -) C (- - - - - - % of <2 mm - - - - - -)	-2- N 6B1a	-3- S	-4- Org C 6A1a	-5- C/N Ratio	-6- (- - - Dith-Cit Ext - - -) Fe (- % of < 2mm - - - - - - - - - - - - - - - - - -) 6C1a	-7- Al	-8- Mn	-9- (- - - - - - Ammonium Oxalate Extraction - - - - - -) Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn mg kg^{-1}	-15- (- - - Na Pyro-Phosphate - - -) C (- - - - - - % of < 2mm - - - - -)	-16- Fe	-17- Al	-18- Mn
40A10070	0-13	Ap	S		0.085		0.91	11	1.3												
40A10071	13-41	Eg	S		0.036		0.29	8	0.6												
40A10072	41-79	Btg1	S		0.021		0.11	5	0.8												
40A10073	79-104	Btg2	S				0.06		0.8												
40A10074	104-130	B1	S				0.06		1.1												

40A10075	130-163	B2	S	0.06	1.1

*** Primary Characterization Data ***

Pedon ID: 61LA033008 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 3:59PM

Sampled As : Calhoun

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1323

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca (- - - - - - NH4OAC Extractable Bases - - - - -) (- - - - - - - - - - - - - - - - - - cmol(+) kg-1 -) 6N2b	-2- Mg 6O2b	-3- Na 6P2a	-4- K 6Q2a	-5- Sum Bases	-6- Acid-ity 6H1a	-7- Extr Al	-8- KCl Mn mg kg-1	-9- CEC8 Sum Cats (- - - - cmol(+) kg-1 - - -)	-10- CEC7 NH4 OAC 5A1a	-11- ECEC Bases +Al	-12- Al Sat (- - - - - - - - % - - - - - - - -)	-13- (- - - - Base - - - -) (- Saturation -) Sum	-14- NH4OAC
40A10070	0-13	Ap	S	2.0	0.6	0.1	0.1	2.8	5.6			8.4	6.0			33	47
40A10071	13-41	Eg	S	2.2	1.0	0.3	0.1	3.6	6.5			10.1	7.8			36	46
40A10072	41-79	Btg1	S	5.6	3.3	0.8	0.2	9.9	8.5			18.4	14.8			54	67
40A10073	79-104	Btg2	S	7.4	4.1	1.0	0.2	12.7	4.9			17.6	14.8			72	86
40A10074	104-130	B1	S	7.1	3.6	1.0	0.2	11.9	3.3			15.2	12.4			78	96
40A10075	130-163	B2	S	8.0*	3.6	1.1	0.2	12.9	3.0			15.9	12.8			81	100

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca (- - - - - mmol(+) L-1 - - - - -)	-2- Mg	-3- Na	-4- K	-5- CO3 (- Water Extracted From Saturated Paste - mmol(-) L-1 -)	-6- HCO3	-7- F	-8- Cl	-9- PO4	-10- Br	-11- OAC	-12- SO4	-13- NO2	-14- NO3	-15- H2O (- - - - % - - - -)	-16- Total Salts	-17- Elec Cond (- - dS m-1 - -)	-18- Pred Elec Cond	-19- Exch Na % 5D2	-20- SAR
40A10070	0-13	Ap	S																			2	
40A10071	13-41	Eg	S																			4	
40A10072	41-79	Btg1	S																			5	
40A10073	79-104	Btg2	S																			7	
40A10074	104-130	B1	S																			8	
40A10075	130-163	B2	S																			9	

*** Primary Characterization Data ***

Pedon ID: 61LA033008 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 3:59PM

Sampled As : Calhoun

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1323

pH & Carbonates

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
										As $CaCO_3$		As $CaSO_4$*$2H_2O$		Resist
	Depth				$CaCl_2$ 0.01M	H_2O	Sat			<2mm	<20mm	<2mm	<20mm	ohms
Layer	(cm)	Horz	Prep	KCl	1:2	1:1	Paste 8C1b	Sulf	NaF	(- - - - - - - - - - - - %		- - - - - - - - - - - -)		cm^{-1}
40A10070	0-13	Ap	S				5.1							
40A10071	13-41	Eg	S				5.0							
40A10072	41-79	Btg1	S				4.7							
40A10073	79-104	Btg2	S				5.2							
40A10074	104-130	B1	S				5.9							
40A10075	130-163	B2	S				6.4							

*** Primary Characterization Data ***

Pedon ID: 61LA033009 | (East Baton Rouge Parish, Louisiana) | Print Date: Aug 10 2011 3:59PM

Sampled as : Verdun
Revised to correlated on Aug 01, 1992 : Verdun ; Fine-silty, mixed, superactive, thermic Glossic Natraqualf

SSL - Project NL40001 SSIR SAMPLES
- Site ID 61LA033009 Lat: 30° 27' 59.00" north Long: 91° 3' 17.00" west MLRA: 134
- Pedon No. 40A1329
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Soil Conservation Service
Lincoln Soil Survey Laboratory
Soil Laboratory
Lincoln, Nebraska

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
40A10113	Ap1	AP1	0-10	15090				SI
40A10114	Ap2	AP2	10-18	15091				SIL
40A10115	Bt1	B21 T	18-28	15092				SICL
40A10116	Bt2	B22 T	28-38	15093				SICL
40A10117	Bt3	B23 T	38-53	15094				SICL
40A10118	Bt4	B24 T	53-81	15095				SICL
40A10119	B	B31	81-112	15096				SIL
40A10120	C	C	112-152	15097				SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
CEC Activity, CEC7/Clay, Weighted Average	0.61	(NA)
Clay, carbonate free, Weighted Average	28	% wt
Weighted Particles, 0.1-75mm, 75 mm Base	1	% wt
Volume, >2mm, Weighted Average	1	% vol
Clay, total, Weighted Average	28	% wt

Weighted averages based on control section: 28-78 cm

*** Primary Characterization Data ***

(East Baton Rouge Parish, Louisiana)

Pedon ID: 61LA033009 — Print Date: Aug 10 2011 3:59PM

Sampled As : Verdun

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1329

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1- Clay < .002 (% of <2mm Mineral Soil) 3A1	-2- Silt .002 -.05 (Total) 3A1	-3- Sand .05 -2 (Total) 3A1	-4- Fine < .0002 (Clay)	-5- CO_3 < .002 (Clay)	-6- Fine .002 -.02 (Silt) 3A1	-7- Coarse .02 -.05 (Silt) 3A1	-8- VF .05 -.10 (Sand) 3A1	-9- F .10 -.25 (Sand) 3A1	-10- M .25 -.50 (Sand) 3A1	-11- C .5 -1 (Sand) 3A1	-12- VC 1 -2 (Sand) 3A1	-13- 2 -5 (Rock Fragments (mm) Weight, % of <75mm) 3B1	-14- 5 -20 (Rock Fragments (mm) Weight, % of <75mm) 3B1	-15- 20 -75 (Rock Fragments (mm) Weight, % of <75mm) 3B1	-16- .1- 75 (Rock Fragments (mm) Weight, % of <75mm)	-17- >2 mm wt % whole soil
40A10113	0-10	Ap1	S	10.3	83.5	6.2			38.8	44.7	2.0	0.4	0.3	1.5	2.0	--	--	--	4	--
40A10114	10-18	Ap2	S	15.0	79.5	5.5			40.7	38.8	1.4	0.4	0.3	1.6	1.8	--	--	--	4	--
40A10115	18-28	Bt1	S	28.7	68.6	2.7			35.8	32.8	1.1	0.4	0.2	0.4	0.6	--	--	--	2	--
40A10116	28-38	Bt2	S	28.4	69.7	1.9			33.8	35.9	1.3	0.3	0.1	0.1	0.1	--	--	--	1	--
40A10117	38-53	Bt3	S	27.5	70.6	1.9			34.4	36.2	1.4	0.3	0.1	0.1	tr	--	--	--	1	--
40A10118	53-81	Bt4	S	28.0	69.7	2.3			35.5	34.2	1.3	0.3	0.2	0.3	0.2	3	2	--	1	5
40A10119	81-112	B	S	24.2	73.8	2.0			35.8	38.0	1.1	0.3	0.1	0.3	0.2	--	--	--	1	--
40A10120	112-152	C	S	22.6	75.4	2.0			44.4	31.0	1.3	0.3	0.1	0.2	0.1	--	--	--	1	--

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa (g cm^{-3})	-2- Oven Dry (Bulk Density) 4A1h	-3- Cole Whole Soil	-4- 6 kPa (% of < 2mm Water Content)	-5- 10 kPa (% of < 2mm Water Content)	-6- 33 kPa (% of < 2mm Water Content) 4B1b	-7- 1500 kPa (% of < 2mm Water Content) 4B2a	-8- 1500 kPa Moist (% of < 2mm Water Content)	-9- Ratio AD/OD (% of < 2mm Water Content)	-10- WRD Whole Soil (cm^3 cm^{-3})	-11- Aggst Stabl 2-0.5mm %	-12- Ratio/Clay CEC7	-13- Ratio/Clay 1500 kPa
40A10113	0-10	Ap1	S		1.45				24.9	6.2			0.27		0.66	0.60
40A10114	10-18	Ap2	S							7.8					0.51	0.52
40A10115	18-28	Bt1	S							14.9					0.54	0.52
40A10116	28-38	Bt2	S							14.5					0.62	0.51
40A10117	38-53	Bt3	S							14.9					0.62	0.54
40A10118	53-81	Bt4	S		1.70				26.1	16.2			0.14		0.60	0.58
40A10119	81-112	B	S							14.4					0.64	0.60
40A10120	112-152	C	S		1.68				25.1	13.1			0.17		0.67	0.58

*** Primary Characterization Data ***

Pedon ID: 61LA033009 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 3:59PM

Sampled As : Verdun

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1329

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- - - Water Content - - -) Field	-7- Recon 33 kPa	-8- (- - - Sieved Samples - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
				pct <0.4mm		(- - - - - - - - g cm^{-3} - - - - - - - -)			(- - - - - - - - % of < 2mm - - - - - - - -)							
						4A1a			4B4							
40A10113	0-10	Ap1	CLODDB			1.43			23.8							
40A10118	53-81	Bt4	CLODDB			1.60			16.7							
40A10120	112-152	C	CLODDB			1.60			21.0							

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- (- - - - - Total - - - - -) C	-2- N	-3- S	-4- Org C	-5- C/N Ratio	-6- (- - - Dith-Cit Ext - - -) Fe	-7- Al	-8- Mn	-9- (- - - - - - Ammonium Oxalate Extraction - - - - - -) Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- (- - - Na Pyro-Phosphate - - -) C	-16- Fe	-17- Al	-18- Mn
				(- - - - - - % of <2 mm - - - - - -)					(- - - - - - - - % of < 2mm - - - - - - - -)								mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
					6B1a		6A1a		6C1a												
40A10113	0-10	Ap1	S		0.115		1.42	12	1.8												
40A10114	10-18	Ap2	S		0.072		0.71	10	1.9												
40A10115	18-28	Bt1	S		0.068		0.52	8	1.3												
40A10116	28-38	Bt2	S		0.038		0.29	8	0.9												
40A10117	38-53	Bt3	S		0.031		0.24	8	0.9												
40A10118	53-81	Bt4	S		0.018		0.11	6	1.6												
40A10119	81-112	B	S				0.06		1.6												
40A10120	112-152	C	S				0.03		1.2												

*** Primary Characterization Data ***

(East Baton Rouge Parish, Louisiana)

Pedon ID: 61LA033009

Print Date: Aug 10 2011 3:59PM

Sampled As : Verdun

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1329

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca (NH4OAC Extractable Bases) cmol(+) kg-1 6N2b	-2- Mg 6O2b	-3- Na 6P2a	-4- K 6Q2a	-5- Sum Bases	-6- Acid-ity 6H1a	-7- Extr Al 6G1d	-8- KCl Mn mg kg-1	-9- CEC8 Sum Cats cmol(+) kg-1	-10- CEC7 NH_4 OAC 5A1a	-11- ECEC Bases +Al	-12- Al Sat %	-13- Base Saturation Sum %	-14- Base Saturation NH_4OAC %
40A10113	0-10	Ap1	S	1.9	1.0	0.4	0.1	3.4	6.2	tr		9.6	6.8			35	50
40A10114	10-18	Ap2	S	1.7	1.0	1.2	0.1	4.0	6.5	tr		10.5	7.6			38	53
40A10115	18-28	Bt1	S	5.6	4.0	5.2	0.2		4.5	tr			15.5			77	97
40A10116	28-38	Bt2	S	6.4*	5.0	6.2	0.2		1.9				17.7			90	100
40A10117	38-53	Bt3	S	6.6*	5.3	6.7	0.2		1.6				17.0			92	100
40A10118	53-81	Bt4	S	8.9*	5.1	7.2	0.2		0.7				16.7			97	100
40A10119	81-112	B	S	9.0*	4.2	5.7	0.2		1.4				15.5			93	100
40A10120	112-152	C	S	8.3*	3.8	4.6	0.2		1.2				15.1			93	100

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca (Water Extracted From Saturated Paste) mmol(+) L-1	-2- Mg	-3- Na 6P1a	-4- K 6Q1a	-5- CO_3 mmol(-) L-1	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O % 8A	-16- Total Salts % 8D5	-17- Elec Cond dS m-1 8A1a	-18- Pred Elec Cond dS m-1	-19- Exch Na % 5D2	-20- SAR
40A10113	0-10	Ap1	S			3.1	0.1											42.9	tr	0.50		4	
40A10114	10-18	Ap2	S			3.4	tr											37.9	tr	0.40		14	
40A10115	18-28	Bt1	S			4.2	tr											65.8	tr	0.50		32	
40A10116	28-38	Bt2	S			4.1	0.1											70.0	tr	0.50		33	
40A10117	38-53	Bt3	S			4.1	tr											76.4	tr	0.50		38	
40A10118	53-81	Bt4	S			6.4	tr											93.9	tr	0.80		40	
40A10119	81-112	B	S			6.6	tr											80.2	tr	0.80		33	
40A10120	112-152	C	S			4.8	tr											71.8	tr	0.60		28	

*** Primary Characterization Data ***

Pedon ID: 61LA033009 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 3:59PM

Sampled As : Verdun

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1329

pH & Carbonates

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
										As $CaCO_3$		As $CaSO_4$*$2H_2O$		Resist
	Depth				$CaCl_2$ 0.01M	H_2O	Sat			<2mm	<20mm	<2mm	<20mm	ohms
Layer	(cm)	Horz	Prep	KCl	1:2	1:1	Paste	Sulf	NaF	(- - - - - - - - - - - - - - % - - - - - - - - - - - -)				cm^{-1}
							8C1b			6E1b				
40A10113	0-10	Ap1	S				5.5							
40A10114	10-18	Ap2	S				5.8							
40A10115	18-28	Bt1	S				6.7			--				
40A10116	28-38	Bt2	S				7.4			--				
40A10117	38-53	Bt3	S				7.9			--				
40A10118	53-81	Bt4	S				8.4			--				
40A10119	81-112	B	S				8.3			--				
40A10120	112-152	C	S				8.0			--				

*** Primary Characterization Data ***

Pedon ID: 61LA033010 — (East Baton Rouge Parish, Louisiana) — Print Date: Aug 10 2011 3:59PM

Sampled as : Verdun
Revised to correlated on Aug 01, 1992 : Verdun ; Fine-silty, mixed, active, thermic Glossic Natraqualf

SSL - Project NL40001 SSIR SAMPLES
- Site ID 61LA033010 Lat: 30° 27' 40.00" north Long: 91° 2' 20.00" west MLRA: 134
- Pedon No. 40A1330
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Soil Conservation Service
Lincoln Soil Survey Laboratory
Soil Laboratory
Lincoln, Nebraska

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
40A10121	Ap1	AP	0-10	15098				SI
40A10122	Ap2	AP2	10-15	15099				SI
40A10123	Bt1	B21 T	15-28	15100				SICL
40A10124	Bt2	B22 T	25-48	15101				SICL
40A10125	Bt3	B23 T	48-89	15102				SIL
40A10126	B	B3	89-122	15103				SIL
40A10127			122-152	15104				SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
CEC Activity, CEC7/Clay, Weighted Average	0.42	(NA)
Clay, carbonate free, Weighted Average	23	% wt
Weighted Particles, 0.1-75mm, 75 mm Base	1	% wt
Volume, >2mm, Weighted Average	0	% vol
Clay, total, Weighted Average	23	% wt

Weighted averages based on control section: 15-65 cm

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - - -)					(Rock Fragments (mm))				
				Clay < .002	Silt .002 -.05	Sand .05 -2	Fine < .0002	CO_3 < .002	Fine .002 -.02	Coarse .02 -.05	VF .05 -.10	F .10 -.25	M .25 -.50	C .5 -1	VC 1 -2	(- - - - - - - - Weight - - - - - - - -) 2 -5	5 -20	20 -75	.1- 75	>2 mm wt % whole soil
				(- % of <2mm Mineral Soil -)												(- - - - - - - % of <75mm - - - - - -)				
				3A1	3A1	3A1			3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	3B1	3B1		
40A10121	0-10	Ap1	S	7.5	85.9	6.6			36.5	49.4	1.7	0.4	0.4	1.8	2.3	--	--	--	5	--
40A10122	10-15	Ap2	S	11.4	82.7	5.9			38.0	44.7	1.6	0.4	0.4	1.8	1.7	--	--	--	4	--
40A10123	15-28	Bt1	S	31.0	66.1	2.9			33.9	32.2	1.2	0.3	0.2	0.7	0.5	--	--	--	2	--
40A10124	25-48	Bt2	S	32.7	65.6	1.7			33.4	32.2	1.2	0.2	0.1	0.2	tr	--	--	--	1	--
40A10125	48-89	Bt3	S	26.7	71.6	1.7			35.8	35.8	1.2	0.1	0.1	0.2	0.1	--	--	--	1	--

40A10126	89-122	B	S	24.0	74.0	2.0	35.8	38.2	1.5	0.2	0.1	0.2	tr	--	--	--	1	--
40A10127	122-152		S	23.8	73.4	2.8	34.0	39.4	1.9	0.2	0.1	0.4	0.2	--	--	--	1	--

*** Primary Characterization Data ***

Pedon ID: 61LA033010 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 3:59PM

Sampled As : Verdun

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1330

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa (- - - g cm^{-3} - - -)	-2- Oven Dry 4A1h	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa (- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)	-5- 10 kPa	-6- 33 kPa 4B1b	-7- 1500 kPa 4B2a	-8- 1500 kPa Moist	-9- Ratio AD/OD	-10- WRD Whole Soil cm^3 cm^{-3}	-11- Aggst Stabl 2-0.5mm %	-12- (- - Ratio/Clay - -) CEC7	-13- 1500 kPa
40A10121	0-10	Ap1	S		1.49				20.3	5.1			0.22		0.85	0.68
40A10122	10-15	Ap2	S							6.1					0.65	0.54
40A10123	15-28	Bt1	S							16.3					0.57	0.53
40A10124	25-48	Bt2	S							18.2					0.60	0.56
40A10125	48-89	Bt3	S		1.66				28.4	15.8			0.18		0.63	0.59
40A10126	89-122	B	S		1.72				24.6	15.3			0.13		0.68	0.64
40A10127	122-152		S							13.2					0.66	0.55

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL pct <0.4mm	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field (- - - - - - - - g cm^{-3} - - - - - - -) 4A1a	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field (- % of < 2mm -) 4B4	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
40A10121	0-10	Ap1	CLODDB			1.49			18.7							
40A10125	48-89	Bt3	CLODDB			1.64			13.0							
40A10126	89-122	B	CLODDB			1.69			14.6							

*** Primary Characterization Data ***

Pedon ID: 61LA033010 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 3:59PM

Sampled As : Verdun

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1330

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- Total C	-2- Total N	-3- Total S	-4- Org C	-5- C/N Ratio	-6- Dith-Cit Ext Fe	-7- Dith-Cit Ext Al	-8- Dith-Cit Ext Mn	-9- Ammonium Oxalate Extraction Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- Na Pyro-Phosphate C	-16- Fe	-17- Al	-18- Mn
				(- - - - - - % of <2 mm - - - - - -)					(- - - - - - % of < 2mm - - - - - -)								mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
					6B1a		6A1a		6C1a												
40A10121	0-10	Ap1	S		0.126		1.50	12	2.0												
40A10122	10-15	Ap2	S		0.070		0.70	10	2.3												
40A10123	15-28	Bt1	S		0.081		0.71	9	1.5												
40A10124	25-48	Bt2	S		0.036		0.28	8	1.7												
40A10125	48-89	Bt3	S		0.017		0.10	6	1.6												
40A10126	89-122	B	S				0.05		1.4												
40A10127	122-152		S				0.04		1.2												

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- NH$_4$OAC Extractable Bases Ca	-2- Mg	-3- Na	-4- K	-5- Sum Bases	-6- Acid-ity	-7- Extr Al	-8- KCl Mn	-9- CEC8 Sum Cats	-10- CEC7 NH$_4$ OAC	-11- ECEC Bases +Al	-12- Al Sat	-13- Base Saturation Sum	-14- Base Saturation NH$_4$OAC
				(- - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)			(- - - - - - - - % - - - - - - - -)		
				6N2b	6O2b	6P2a	6Q2a		6H1a				5A1a				
40A10121	0-10	Ap1	S	2.8	1.2	0.4	0.1	4.5	4.0			8.5	6.4			53	70
40A10122	10-15	Ap2	S	3.5	1.4	1.3	0.1		3.0				7.4			68	85
40A10123	15-28	Bt1	S	7.7	4.4	5.2	0.2		3.3				17.6			84	99
40A10124	25-48	Bt2	S	8.7*	6.4	6.6	0.2		1.4				19.5			94	100
40A10125	48-89	Bt3	S	6.4*	5.4	6.2	0.2		1.2				16.8			94	100
40A10126	89-122	B	S	6.4*	5.2	5.5	0.2		1.2				16.2			94	100
40A10127	122-152		S	6.7*	5.0	4.8	0.2		0.9				15.7			95	100

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

*** Primary Characterization Data ***

Pedon ID: 61LA033010 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 3:59PM

Sampled As : Verdun

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1330

Salt -1- -2- -3- -4- -5- -6- -7- -8- -9- -10- -11- -12- -13- -14- -15- -16- -17- -18- -19- -20-

Layer	Depth (cm)	Horz	Prep	Ca	Mg	Na	K	CO_3	HCO_3	F	Cl	PO_4	Br	OAC	SO_4	NO_2	NO_3	H_2O	Total Salts	Elec Cond	Pred Elec Cond	Exch Na	SAR
				(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)										(- - - - % - - - -)		(- - dS m^{-1} - -)		%	
						6P1a	6Q1a											8A	8D5	8A1a		5D2	
40A10121	0-10	Ap1	S			3.2	0.1											43.3	tr	0.60		4	
40A10122	10-15	Ap2	S			6.5	tr											34.3	tr	0.80		15	
40A10123	15-28	Bt1	S			5.7	tr											62.9	tr	0.70		28	
40A10124	25-48	Bt2	S			7.2	tr											82.8	tr	0.90		31	
40A10125	48-89	Bt3	S			5.2	tr											90.0	tr	0.60		34	
40A10126	89-122	B	S			3.7	tr											88.2	tr	0.50		32	
40A10127	122-152		S			3.3	tr											78.8	tr	0.40		29	

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2	-3- H_2O 1:1	-4- Sat Paste	-5- Sulf	-6- NaF	-7- Carbonate As $CaCO_3$ <2mm	-8- Carbonate As $CaCO_3$ <20mm	-9- Gypsum As $CaSO_4$*$2H_2O$ <2mm	-10- Gypsum As $CaSO_4$*$2H_2O$ <20mm	-11- Resist ohms cm^{-1}
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
							8C1b			6E1b				
40A10121	0-10	Ap1	S				5.7							
40A10122	10-15	Ap2	S				6.8			--				
40A10123	15-28	Bt1	S				7.5			--				
40A10124	25-48	Bt2	S				8.2			--				
40A10125	48-89	Bt3	S				8.1			--				
40A10126	89-122	B	S				8.0			--				
40A10127	122-152		S				7.9			--				

*** Primary Characterization Data ***

Pedon ID: 61LA033002 — (East Baton Rouge Parish, Louisiana) — Print Date: Aug 10 2011 4:00PM

Sampled as : Loring
Revised to correlated on Jun 01, 1965 : Loring ; Fine-silty, mixed, active, thermic Typic Fragiudalf

SSL - Project NL40001 SSIR SAMPLES
- Site ID 61LA033002 Lat: 30° 41' 5.00" north Long: 91° 13' 43.00" west MLRA: 134
- Pedon No. 40A1335
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Soil Conservation Service
Lincoln Soil Survey Laboratory
Soil Laboratory
Lincoln, Nebraska

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
40A10164	Ap	AP	0-25	15044				SI
40A10165	B	B1	25-33	15045				SIL
40A10166	Bt	B2 T	33-58	15046				SICL
40A10167	Bx1	B X1	58-97	15047				SIL
40A10168	Bx2	B X2	97-124	15048				SIL
40A10169	Bx3	B X3	124-152	15049				SIL
40A10170	Bx4	B X4	152-178	15050				SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
CEC Activity, CEC7/Clay, Weighted Average	0.41	(NA)
Clay, carbonate free, Weighted Average	31	% wt
Weighted Particles, 0.1-75mm, 75 mm Base	0	% wt
Volume, >2mm, Weighted Average	0	% vol
Clay, total, Weighted Average	31	% wt

Weighted averages based on control section: 33-58 cm

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - - -)					(Rock Fragments (mm))				
				Clay < .002	Silt .002 -.05	Sand .05 -2	Fine < .0002	CO_3 < .002	Fine .002 -.02	Coarse .02 -.05	VF .05 -.10	F .10 -.25	M .25 -.50	C .5 -1	VC 1 -2	(- - - - - - - - Weight - - - - - - - -) 2 -5	5 -20	20 -75	.1- 75	>2 mm wt % whole soil
				(- % of <2mm Mineral Soil -)												(- - - - - - - % of <75mm - - - - - -)				
				3A1	3A1	3A1			3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	3B1	3B1		
40A10164	0-25	Ap	S	9.7	89.4	0.9			38.3	51.1	0.6	0.2	0.1	tr	tr	--	--	--	tr	--
40A10165	25-33	B	S	21.2	76.7	2.1			31.2	45.5	1.3	0.4	0.2	0.1	0.1	--	--	--	1	--
40A10166	33-58	Bt	S	31.2	67.9	0.9			32.5	35.4	0.8	0.1	tr	tr	tr	--	--	--	tr	--
40A10167	58-97	Bx1	S	23.7	75.4	0.9			37.0	38.4	0.7	0.1	tr	tr	0.1	--	--	--	tr	--
40A10168	97-124	Bx2	S	21.1	77.9	1.0			37.7	40.2	0.8	0.2	tr	tr	tr	--	--	--	tr	--

40A10169	124-152	Bx3	S	17.9	80.0	2.1	35.1	44.9	1.2	0.6	0.2	0.1	tr	--	--	--	1	--
40A10170	152-178	Bx4	S	16.2	78.3	5.5	33.5	44.8	1.9	1.9	0.8	0.5	0.4	--	--	--	4	--

*** Primary Characterization Data ***

Pedon ID: 61LA033002 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Loring

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1335

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa (- - - g cm^{-3} - - -)	-2- Oven Dry 4A1h	-3- Cole Whole Soil	-4- (- - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa (- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - - -)	-5- 10 kPa	-6- 33 kPa 4B1b	-7- 1500 kPa 4B2a	-8- 1500 kPa Moist	-9- Ratio AD/OD	-10- WRD Whole Soil cm^3 cm^{-3}	-11- Aggst Stabl 2-0.5mm %	-12- (- - Ratio/Clay - -) CEC7	-13- 1500 kPa
40A10164	0-25	Ap	S		1.44				18.0	4.6			0.19		0.56	0.47
40A10165	25-33	B	S							8.6					0.40	0.41
40A10166	33-58	Bt	S		1.60				27.4	12.8			0.21		0.41	0.41
40A10167	58-97	Bx1	S		1.58				25.8	10.6			0.22		0.46	0.45
40A10168	97-124	Bx2	S							9.5					0.46	0.45
40A10169	124-152	Bx3	S		1.61				29.0	8.3			0.30		0.50	0.46
40A10170	152-178	Bx4	S							7.4					0.46	0.46

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL pct <0.4mm	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field (- - - - - - - - g cm^{-3} - - - - - - -) 4A1a	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field (- % of < 2mm -) 4B4	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
40A10164	0-25	Ap	CLODDB			1.43			19.6							
40A10166	33-58	Bt	CLODDB			1.48			23.6							
40A10167	58-97	Bx1	CLODDB			1.51			23.9							
40A10169	124-152	Bx3	CLODDB			1.57			22.3							

*** Primary Characterization Data ***

Pedon ID: 61LA033002 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Loring

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1335

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- C	-2- N	-3- S	-4- Org C	-5- C/N Ratio	-6- Fe	-7- Al	-8- Mn	-9- Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- C	-16- Fe	-17- Al	-18- Mn
				(- - - - - Total - - - - -)					(- - - Dith-Cit Ext - - -)			(- - - - - - Ammonium Oxalate Extraction - - - - - -)						(- - - Na Pyro-Phosphate - - -)			
				(- - - - - - % of <2 mm - - - - - -)					(- % of < 2mm - - - - - - - - - - - - - - - - - - -)								mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
					6B1a		6A1a		6C1a												
40A10164	0-25	Ap	S		0.068		0.63	9	0.8												
40A10165	25-33	B	S		0.050		0.38	8	1.7												
40A10166	33-58	Bt	S		0.046		0.23	5	2.3												
40A10167	58-97	Bx1	S		0.029		0.13	4	2.3												
40A10168	97-124	Bx2	S				0.08		2.1												
40A10169	124-152	Bx3	S				0.06		1.6												
40A10170	152-178	Bx4	S				0.03		1.4												

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- Sum Bases	-6- Acid-ity	-7- Extr Al	-8- KCl Mn	-9- CEC8 Sum Cats	-10- CEC7 NH_4 OAC	-11- ECEC Bases +Al	-12- Al Sat	-13- Base Sum	-14- Base NH_4OAC
				(- - - - - - NH_4OAC Extractable Bases - - - - -)												(- - - - Base - - - -)	
																(- Saturation -)	
				(- - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)			(- - - - - - - - % - - - - - - - -)		
				6N2b	6O2b	6P2a	6Q2a		6H1a	6G1d			5A1a				
40A10164	0-25	Ap	S	2.3	0.6	tr	0.1	3.0	5.5	tr		8.5	5.4			35	56
40A10165	25-33	B	S	3.1	1.9	0.1	0.1	5.2	6.9	1.0		12.1	8.4	6.2	16	43	62
40A10166	33-58	Bt	S	2.8	2.9	0.1	0.2	6.0	11.8	3.0		17.8	12.7	9.0	33	34	47
40A10167	58-97	Bx1	S	1.9	3.2	0.1	0.2	5.4	9.6	3.0		15.0	10.9	8.4	36	36	50
40A10168	97-124	Bx2	S	1.9	3.0	0.2	0.2	5.3	8.2	2.0		13.5	9.7	7.3	27	39	55
40A10169	124-152	Bx3	S	1.7	2.5	0.2	0.2	4.6	7.7	2.0		12.3	9.0	6.6	30	37	51
40A10170	152-178	Bx4	S	1.7	1.9	0.1	0.1	3.8	6.0	2.0		9.8	7.4	5.8	34	39	51

*** Primary Characterization Data ***

Pedon ID: 61LA033002 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Loring

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1335

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- CO_3	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O	-16- Total Salts	-17- Elec Cond	-18- Pred Elec Cond	-19- Exch Na % 5D2	-20- SAR
				(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)										(- - - - % - - - -)		(- - dS m^{-1} - -)		
				(- Water Extracted From Saturated Paste -)																			
40A10164	0-25	Ap	S																			--	
40A10165	25-33	B	S																			1	
40A10166	33-58	Bt	S																			1	
40A10167	58-97	Bx1	S																			1	
40A10168	97-124	Bx2	S																			2	
40A10169	124-152	Bx3	S																			2	
40A10170	152-178	Bx4	S																			1	

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2	-3- H_2O 1:1 8C1a	-4- Sat Paste	-5- Sulf	-6- NaF	-7- Carbonate As $CaCO_3$ <2mm	-8- Carbonate As $CaCO_3$ <20mm	-9- Gypsum As $CaSO_4$*$2H_2O$ <2mm	-10- Gypsum As $CaSO_4$*$2H_2O$ <20mm	-11- Resist ohms cm^{-1}
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
										(- - - - - - - - - - - - % - - - - - - - - - - -)				
40A10164	0-25	Ap	S			5.2								
40A10165	25-33	B	S			4.8								
40A10166	33-58	Bt	S			4.9								
40A10167	58-97	Bx1	S			5.0								
40A10168	97-124	Bx2	S			5.0								
40A10169	124-152	Bx3	S			5.0								
40A10170	152-178	Bx4	S			5.1								

*** Primary Characterization Data ***

Pedon ID: 61LA033007 — (East Baton Rouge Parish, Louisiana) — Print Date: Aug 10 2011 4:00PM

Sampled as : Olivier
Revised to correlated on Aug 01, 1992 : Olivier ; Fine-silty, mixed, active, thermic Aquic Fragiudalf

SSL - Project NL40001 SSIR SAMPLES
- Site ID 61LA033007 Lat: 30° 22' 32.00" north Long: 91° 2' 48.00" west MLRA: 134
- Pedon No. 40A1352
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Soil Conservation Service
Lincoln Soil Survey Laboratory
Soil Laboratory
Lincoln, Nebraska

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
40A10325	Ap	AP	0-13	15077				SI
40A10326	A	A3	13-23	15078				SIL
40A10327	B1	B1	23-28	15079				SIL
40A10328	B2	B2	28-56	15080				SIL
40A10329	Bx1	B X1	56-83	15081				SIL
40A10330	Bx2	B X2	83-105	15082				SIL
40A10331	Bx3	B X3	105-150	15083				SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
CEC Activity, CEC7/Clay, Weighted Average	0.47	(NA)
Clay, carbonate free, Weighted Average	25	% wt
Weighted Particles, 0.1-75mm, 75 mm Base	1	% wt
Volume, >2mm, Weighted Average	0	% vol
Clay, total, Weighted Average	25	% wt

Weighted averages based on control section: 25-56 cm

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - - -)					(Rock Fragments (mm))				
				Clay < .002	Silt .002 -.05	Sand .05 -2	Fine < .0002	CO_3 < .002	Fine .002 -.02	Coarse .02 -.05	VF .05 -.10	F .10 -.25	M .25 -.50	C .5 -1	VC 1 -2	(- - - - - - - - Weight - - - - - - - -) 2 -5	5 -20	20 -75	.1- 75	>2 mm wt % whole soil
				(- % of <2mm Mineral Soil -)												(- - - - - - - % of <75mm - - - - - -)				
				3A1	3A1	3A1			3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	3B1	3B1		
40A10325	0-13	Ap	S	10.6	86.3	3.1			33.5	52.8	1.6	0.4	0.2	0.6	0.3	--	--	--	2	--
40A10326	13-23	A	S	12.7	84.3	3.0			35.1	49.2	1.8	0.3	0.2	0.4	0.3	--	--	--	1	--
40A10327	23-28	B1	S	18.3	79.5	2.2			34.3	45.2	1.4	0.3	0.2	0.2	0.1	--	--	--	1	--
40A10328	28-56	B2	S	25.9	72.5	1.6			34.8	37.7	1.1	0.3	0.1	0.1	tr	--	--	--	1	--
40A10329	56-83	Bx1	S	21.6	76.6	1.8			33.6	43.0	1.1	0.3	0.2	0.2	tr	--	--	--	1	--

40A10330	83-105	Bx2	S	19.8	77.8	2.4	34.9	42.9	1.3	0.4	0.2	0.3	0.2	--	--	--	1	--
40A10331	105-150	Bx3	S	21.4	76.0	2.6	33.0	43.0	1.3	0.4	0.2	0.4	0.3	--	--	--	1	--

*** Primary Characterization Data ***

Pedon ID: 61LA033007 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Olivier

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1352

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa (- - - g cm^{-3} - - -)	-2- Oven Dry 4A1h	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa (- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)	-5- 10 kPa	-6- 33 kPa 4B1b	-7- 1500 kPa 4B2a	-8- 1500 kPa Moist	-9- Ratio AD/OD	-10- WRD Whole Soil cm^3 cm^{-3}	-11- Aggst Stabl 2-0.5mm %	-12- (- - Ratio/Clay - -) CEC7	-13- 1500 kPa
40A10325	0-13	Ap	S		1.47				22.4	6.2			0.23		0.87	0.58
40A10326	13-23	A	S							6.3					0.52	0.50
40A10327	23-28	B1	S							8.6					0.44	0.47
40A10328	28-56	B2	S		1.50				27.7	11.9			0.23		0.47	0.46
40A10329	56-83	Bx1	S							10.1					0.48	0.47
40A10330	83-105	Bx2	S		1.60				25.2	9.6			0.23		0.54	0.48
40A10331	105-150	Bx3	S							10.4					0.57	0.49

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL pct <0.4mm	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field (- - - - - - - - g cm^{-3} - - - - - - -) 4A1a	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field (- % of < 2mm -) 4B4	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
40A10325	0-13	Ap	CLODDB			1.45			21.2							
40A10328	28-56	B2	CLODDB			1.42			24.3							
40A10330	83-105	Bx2	CLODDB			1.55			24.1							

*** Primary Characterization Data ***

Pedon ID: 61LA033007 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Olivier
USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1352

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- C (- - - - - - % of <2 mm - - - - - -)	-2- N (- - - - - Total - - - - -)	-3- S	-4- Org C	-5- C/N Ratio	-6- Fe (- - - Dith-Cit Ext - - -)	-7- Al	-8- Mn	-9- Al+½Fe (- - - - - - Ammonium Oxalate Extraction - - - - - -)	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- C (- - - Na Pyro-Phosphate - - -)	-16- Fe	-17- Al	-18- Mn
					6B1a		6A1a		6C1a			(- % of < 2mm - - - - - - - - - - - - - - - - - - -)					mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
40A10325	0-13	Ap	S		0.116		1.23	11	0.8												
40A10326	13-23	A	S		0.045		0.36	8	0.9												
40A10327	23-28	B1	S		0.038		0.24	6	1.3												
40A10328	28-56	B2	S		0.039		0.21	5	1.8												
40A10329	56-83	Bx1	S		0.025		0.13	5	1.8												
40A10330	83-105	Bx2	S				0.10		1.6												
40A10331	105-150	Bx3	S				0.09		1.3												

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca (- - - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -) 6N2b	-2- Mg (- - - - - - NH$_4$OAC Extractable Bases - - - - -) 6O2b	-3- Na	-4- K 6P2a	-5- Sum Bases 6Q2a	-6- Acid-ity 6H1a	-7- Extr Al	-8- KCl Mn mg kg^{-1}	-9- CEC8 Sum Cats (- - - - cmol(+) kg^{-1} - - -)	-10- CEC7 NH$_4$ OAC 5A1a	-11- ECEC Bases +Al	-12- Al Sat (- - - - - - - - % - - - - - - - -)	-13- Sum (- - - - Base - - - -) (- Saturation -)	-14- NH$_4$OAC
40A10325	0-13	Ap	S	7.0*	2.0	0.1	0.1	9.2	3.7			12.9	9.2			71	100
40A10326	13-23	A	S	4.3	1.1	0.1	0.1	5.6	3.5			9.1	6.6			62	85
40A10327	23-28	B1	S	4.4	1.5	0.1	0.1	6.1	4.9			11.0	8.0			55	76
40A10328	28-56	B2	S	3.9	2.6	0.2	0.2	6.9	9.6			16.5	12.3			42	56
40A10329	56-83	Bx1	S	2.7	2.6	0.3	0.2	5.8	8.6			14.4	10.4			40	56
40A10330	83-105	Bx2	S	2.5	2.6	0.4	0.2	5.7	8.6			14.3	10.7			40	53
40A10331	105-150	Bx3	S	3.0	3.0	0.4	0.2	6.6	9.1			15.7	12.1			42	55

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

*** Primary Characterization Data ***

Pedon ID: 61LA033007 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Olivier
USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1352

Salt -1- -2- -3- -4- -5- -6- -7- -8- -9- -10- -11- -12- -13- -14- -15- -16- -17- -18- -19- -20-

Layer	Depth (cm)	Horz	Prep	Ca	Mg	Na	K	CO_3	HCO_3	F	Cl	PO_4	Br	OAC	SO_4	NO_2	NO_3	H_2O	Total Salts	Elec Cond	Pred Elec Cond	Exch Na % 5D2	SAR
				(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)										(- - - - % - - - -)		(- - dS m^{-1} - -)			
40A10325	0-13	Ap	S																			1	
40A10326	13-23	A	S																			2	
40A10327	23-28	B1	S																			1	
40A10328	28-56	B2	S																			2	
40A10329	56-83	Bx1	S																			3	
40A10330	83-105	Bx2	S																			4	
40A10331	105-150	Bx3	S																			3	

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2	-3- H_2O 1:1	-4- Sat Paste 8C1b	-5- Sulf	-6- NaF	-7- (- - Carbonate - -) As $CaCO_3$ <2mm	-8- <20mm	-9- (- - Gypsum - - -) As $CaSO_4$*$2H_2O$ <2mm	-10- <20mm	-11- Resist ohms cm^{-1}
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - -)						(- - - - - - - - - - - - % - - - - - - - - - - -)				
40A10325	0-13	Ap	S				6.5							
40A10326	13-23	A	S				6.4							
40A10327	23-28	B1	S				5.3							
40A10328	28-56	B2	S				4.8							
40A10329	56-83	Bx1	S				5.0							
40A10330	83-105	Bx2	S				4.7							
40A10331	105-150	Bx3	S				5.0							

*** Primary Characterization Data ***

Pedon ID: 61LA033006 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled as : Olivier
Revised to correlated on Aug 01, 1992 : Olivier ; Fine-silty, mixed, active, thermic Aquic Fragiudalf

SSL - Project NL40001 SSIR SAMPLES
- Site ID 61LA033006 Lat: 30° 22' 43.00" north Long: 91° 5' 29.00" west MLRA: 134
- Pedon No. 40A1353
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Soil Conservation Service
Lincoln Soil Survey Laboratory
Soil Laboratory
Lincoln, Nebraska

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
40A10332	Ap	AP	0-15	15071				SI
40A10333	A	A3	15-33	15072				SIL
40A10334	Bt	B2 T	33-56	15073				SICL
40A10335	Bx / A	B X1& A1I	56-81	15074				SICL
40A10336	B / E	B X2& A12	81-112	15075				SIL
40A10337	B	B3	112-152	15076				SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
CEC Activity, CEC7/Clay, Weighted Average	0.46	(NA)
Clay, carbonate free, Weighted Average	32	% wt
Weighted Particles, 0.1-75mm, 75 mm Base	2	% wt
Volume, >2mm, Weighted Average	0	% vol
Clay, total, Weighted Average	32	% wt

Weighted averages based on control section: 33-56 cm

PSDA & Rock Fragments

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - -)					(Rock Fragments (mm))				
				Clay	Silt	Sand	Fine	CO_3	Fine	Coarse	VF	F	M	C	VC	(- - - - - - - - Weight - - - - - - - -)				>2 mm
				<	.002	.05	<	<	.002	.02	.05	.10	.25	.5	1	2	5	20	.1-	wt %
	Depth			.002	-.05	-2	.0002	.002	-.02	-.05	-.10	-.25	-.50	-1	-2	-5	-20	-75	75	whole
Layer	(cm)	Horz	Prep	(- % of <2mm Mineral Soil -)												(- - - - - - - % of <75mm - - - - - -)				soil
				3A1	3A1	3A1			3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	3B1	3B1		
40A10332	0-15	Ap	S	9.3	86.8	3.9			33.8	53.0	1.6	0.3	0.1	0.4	1.5	--	--	--	2	--
40A10333	15-33	A	S	16.8	80.5	2.7			35.7	44.8	1.3	0.4	0.2	0.5	0.3	--	--	--	1	--
40A10334	33-56	Bt	S	31.9	64.6	3.5			31.9	32.7	1.3	0.5	0.4	0.9	0.4	--	--	--	2	--
40A10335	56-81	Bx / A	S	28.6	67.6	3.8			31.5	36.1	1.2	0.4	0.3	0.9	1.0	--	--	--	3	--
40A10336	81-112	B / E	S	23.7	73.0	3.3			33.0	40.0	0.9	0.2	0.2	0.8	1.2	--	--	--	2	--
40A10337	112-152	B	S	17.4	80.1	2.5			34.5	45.6	1.3	0.4	0.2	0.4	0.2	--	--	--	1	--

*** Primary Characterization Data ***

Pedon ID: 61LA033006 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Olivier

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1353

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa Oven Dry (- - - g cm^{-3} - - -) 4A1h	-2-	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa (- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)	-5- 10 kPa	-6- 33 kPa 4B1b	-7- 1500 kPa 4B2a	-8- 1500 kPa Ratio Moist	-9- AD/OD	-10- WRD Whole Soil cm^3 cm^{-3}	-11- Aggst Stabl 2-0.5mm %	-12- (- - Ratio/Clay - -) CEC7	-13- 1500 kPa
40A10332	0-15	Ap	S		1.45				21.8	4.3			0.25		1.51	0.46
40A10333	15-33	A	S							7.3					0.71	0.43
40A10334	33-56	Bt	S		1.64				25.9	14.1			0.17		0.46	0.44
40A10335	56-81	Bx / A	S							12.8					0.47	0.45
40A10336	81-112	B / E	S		1.68				28.1	11.9			0.23		0.55	0.50
40A10337	112-152	B	S							9.4					0.66	0.54

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL pct <0.4mm	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field (- - - - - - - - g cm^{-3} - - - - - - -) 4A1a	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field (- % of < 2mm -) 4B4	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
40A10332	0-15	Ap	CLODDB			1.43			25.7							
40A10334	33-56	Bt	CLODDB			1.55			23.0							
40A10336	81-112	B / E	CLODDB			1.62			20.8							

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- (- - - - - Total - - - - -) C (- - - - - - % of <2 mm - - - - - -)	-2- N 6B1a	-3- S	-4- Org C 6A1a	-5- C/N Ratio	-6- (- - - Dith-Cit Ext - - -) Fe (- % of < 2mm - - - - - - - - - - - - - - - - - -) 6C1a	-7- Al	-8- Mn	-9- (- - - - - - Ammonium Oxalate Extraction - - - - - -) Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn mg kg^{-1}	-15- (- - - Na Pyro-Phosphate - - -) C (- - - - - - % of < 2mm - - - - -)	-16- Fe	-17- Al	-18- Mn
40A10332	0-15	Ap	S		0.063		0.66	10	1.2												
40A10333	15-33	A	S		0.028		0.18	6	1.2												
40A10334	33-56	Bt	S		0.036		0.16	4	1.8												
40A10335	56-81	Bx / A	S		0.030		0.10	3	1.6												
40A10336	81-112	B / E	S				0.09		1.4												

40A10337	112-152	B	S	0.06	1.3

*** Primary Characterization Data ***

Pedon ID: 61LA033006 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Olivier

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1353

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca (- - - - - - NH_4OAC Extractable Bases - - - - -) (- - - - - - - - - - - - - - - - - - cmol(+) kg^{-1} -) 6N2b	-2- Mg 6O2b	-3- Na 6P2a	-4- K 6Q2a	-5- Sum Bases	-6- Acid-ity 6H1a	-7- Extr Al 6G1d	-8- KCl Mn mg kg^{-1}	-9- CEC8 Sum Cats (- - - - cmol(+) kg^{-1} - - -)	-10- CEC7 NH_4 OAC 5A1a	-11- ECEC Bases +Al	-12- Al Sat (- - - - - - - - % - - - - - - - -)	-13- (- - - - Base - - - -) (- Saturation -) Sum	-14- NH_4OAC
40A10332	0-15	Ap	S	3.3	3.4	0.5	0.2	7.4	5.8	tr		13.2	14.0			56	53
40A10333	15-33	A	S	3.7	3.4	0.8	0.2	8.1	7.0	2.0		15.1	12.0	10.1	20	54	68
40A10334	33-56	Bt	S	2.9	3.2	0.4	0.2	6.7	11.5	4.0		18.2	14.6	10.7	37	37	46
40A10335	56-81	Bx / A	S	4.2	4.6	0.6	0.3	9.7	8.9	2.0		18.6	13.4	11.7	17	52	72
40A10336	81-112	B / E	S	6.0	5.4	0.7	0.2	12.3	4.4	tr		16.7	13.0			74	95
40A10337	112-152	B	S	6.3*	4.4	0.6	0.2	11.5	4.0	tr		15.5	11.5			74	100

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca (- - - - - mmol(+) L^{-1} - - - - -)	-2- Mg	-3- Na	-4- K	-5- CO_3 (- mmol(-) L^{-1} -)	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O (- - - - % - - - -)	-16- Total Salts	-17- Elec Cond (- - dS m^{-1} - -)	-18- Pred Elec Cond	-19- Exch Na % 5D2	-20- SAR
40A10332	0-15	Ap	S																			4	
40A10333	15-33	A	S																			7	
40A10334	33-56	Bt	S																			3	
40A10335	56-81	Bx / A	S																			4	
40A10336	81-112	B / E	S																			5	
40A10337	112-152	B	S																			5	

*** Primary Characterization Data ***

Pedon ID: 61LA033006 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Olivier

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1353

pH & Carbonates

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
										As $CaCO_3$		As $CaSO_4$*$2H_2O$		Resist
	Depth				$CaCl_2$ 0.01M	H_2O	Sat			<2mm	<20mm	<2mm	<20mm	ohms
Layer	(cm)	Horz	Prep	KCl	1:2	1:1	Paste 8C1b	Sulf	NaF	(- - - - - - - - - - - - %		- - - - - - - - - - - -)		cm^{-1}
40A10332	0-15	Ap	S				5.0							
40A10333	15-33	A	S				5.0							
40A10334	33-56	Bt	S				4.8							
40A10335	56-81	Bx / A	S				5.1							
40A10336	81-112	B / E	S				5.5							
40A10337	112-152	B	S				6.3							

*** Primary Characterization Data ***

Pedon ID: 61LA033004 — (East Baton Rouge Parish, Louisiana) — Print Date: Aug 10 2011 4:00PM

Sampled as : Olivier
Revised to correlated on Aug 01, 1992 : Olivier ; Fine-silty, mixed, active, thermic Typic Fragiudalf

SSL - Project NL40001 SSIR SAMPLES
- Site ID 61LA033004 Lat: 30° 38' 52.00" north Long: 91° 16' 36.00" west MLRA: 134
- Pedon No. 40A1354
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Soil Conservation Service
Lincoln Soil Survey Laboratory
Soil Laboratory
Lincoln, Nebraska

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
40A10338	Ap	AP	0-15	15058				SI
40A10339	Bw	B1	15-30	15059				SIL
40A10340	Bt	B21T	30-51	15060				SIL
40A10341	Bx1	B X1	51-71	15061				SIL
40A10342	Bx2	B X2	71-94	15062				SIL
40A10343	Bx3	B X3	94-124	15063				SIL
40A10344	Bx4	B X4	124-157	15064				SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
CEC Activity, CEC7/Clay, Weighted Average	0.47	(NA)
Clay, carbonate free, Weighted Average	25	% wt
Weighted Particles, 0.1-75mm, 75 mm Base	2	% wt
Volume, >2mm, Weighted Average	0	% vol
Clay, total, Weighted Average	25	% wt

Weighted averages based on control section: 30-51 cm

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - - -)					(Rock Fragments (mm))				
				Clay < .002	Silt .002 -.05	Sand .05 -2	Fine < .0002	CO_3 < .002	Fine .002 -.02	Coarse .02 -.05	VF .05 -.10	F .10 -.25	M .25 -.50	C .5 -1	VC 1 -2	(- - - - - - - - Weight - - - - - - - -) 2 -5	5 -20	20 -75	.1- 75	>2 mm wt % whole soil
				(- % of <2mm Mineral Soil -)												(- - - - - - - % of <75mm - - - - - -)				
				3A1	3A1	3A1			3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	3B1	3B1		
40A10338	0-15	Ap	S	8.2	86.0	5.8			29.5	56.5	2.1	1.0	0.5	1.0	1.2	--	--	--	4	--
40A10339	15-30	Bw	S	21.8	75.2	3.0			35.2	40.0	1.4	0.6	0.4	0.5	0.1	--	--	--	2	--
40A10340	30-51	Bt	S	24.6	71.7	3.7			34.3	37.4	1.5	0.8	0.5	0.8	0.1	--	--	--	2	--
40A10341	51-71	Bx1	S	26.6	70.4	3.0			33.4	37.0	1.2	0.8	0.4	0.5	0.1	--	--	--	2	--
40A10342	71-94	Bx2	S	25.0	73.3	1.7			35.4	37.9	1.1	0.4	0.1	0.1	tr	--	--	--	1	--

40A10343	94-124	Bx3	S	19.4	79.0	1.6	37.3	41.7	1.1	0.4	0.1	tr	tr	--	--	--	1	--
40A10344	124-157	Bx4	S	18.6	78.2	3.2	30.8	47.4	1.4	1.3	0.4	0.1	tr	--	--	--	2	--

*** Primary Characterization Data ***

Pedon ID: 61LA033004 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Olivier

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1354

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa (- - - g cm^{-3} - - -)	-2- Oven Dry 4A1h	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa (- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)	-5- 10 kPa	-6- 33 kPa 4B1b	-7- 1500 kPa 4B2a	-8- 1500 kPa Moist	-9- Ratio AD/OD	-10- WRD Whole Soil cm^3 cm^{-3}	-11- Aggst Stabl 2-0.5mm %	-12- (- - Ratio/Clay - -) CEC7	-13- 1500 kPa
40A10338	0-15	Ap	S		1.45				17.1	5.0			0.18		0.72	0.61
40A10339	15-30	Bw	S							9.1					0.39	0.42
40A10340	30-51	Bt	S		1.56				29.0	10.7			0.27		0.47	0.43
40A10341	51-71	Bx1	S							11.8					0.48	0.44
40A10342	71-94	Bx2	S		1.52				27.3	11.2			0.23		0.48	0.45
40A10343	94-124	Bx3	S							8.7					0.55	0.45
40A10344	124-157	Bx4	S		1.56				25.4	8.4			0.25		0.58	0.45

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL pct <0.4mm	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field (- - - - - - - - g cm^{-3} - - - - - - -) 4A1a	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field (- % of < 2mm -) 4B4	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
40A10338	0-15	Ap	CLODDB			1.44			19.9							
40A10340	30-51	Bt	CLODDB			1.48			23.6							
40A10342	71-94	Bx2	CLODDB			1.46			27.3							
40A10344	124-157	Bx4	CLODDB			1.52			24.7							

*** Primary Characterization Data ***

Pedon ID: 61LA033004 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Olivier

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1354

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- C	-2- N	-3- S	-4- Org C	-5- C/N Ratio	-6- Fe	-7- Al	-8- Mn	-9- Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- C	-16- Fe	-17- Al	-18- Mn
				(- - - - - Total - - - - -)					(- - - Dith-Cit Ext - - -)			(- - - - - - Ammonium Oxalate Extraction - - - - - -)						(- - - Na Pyro-Phosphate - - -)			
				(- - - - - - % of <2 mm - - - - - -)					(- % of < 2mm - - - - - - - - - - - - - - - - - - -)								mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
					6B1a		6A1a		6C1a												
40A10338	0-15	Ap	S		0.066		0.67	10	0.8												
40A10339	15-30	Bw	S		0.047		0.23	5	1.0												
40A10340	30-51	Bt	S		0.044		0.16	4	1.4												
40A10341	51-71	Bx1	S		0.037		0.15	4	1.6												
40A10342	71-94	Bx2	S				0.11		1.5												
40A10343	94-124	Bx3	S				0.06		1.3												
40A10344	124-157	Bx4	S				0.04		1.2												

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- Sum Bases	-6- Acid-ity	-7- Extr Al	-8- KCl Mn	-9- CEC8 Sum Cats	-10- CEC7 NH_4 OAC	-11- ECEC Bases +Al	-12- Al Sat	-13- Base Sum	-14- Base NH_4OAC
				(- - - - - - NH_4OAC Extractable Bases - - - - -)												(- - - - Base - - - -)	
																(- Saturation -)	
				(- - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)			(- - - - - - - - % - - - - - - - -)		
				6N2b	6O2b	6P2a	6Q2a		6H1a	6G1d			5A1a				
40A10338	0-15	Ap	S	3.4	1.4	0.1	0.2	5.1	3.5	tr		8.6	5.9			59	86
40A10339	15-30	Bw	S	4.7	1.7	0.3	0.2	6.9	4.9	tr		11.8	8.4			58	82
40A10340	30-51	Bt	S	5.5	2.4	0.2	0.2	8.3	7.2	1.0		15.5	11.5	9.3	11	54	72
40A10341	51-71	Bx1	S	4.8	3.0	0.3	0.2	8.3	9.4	2.0		17.7	12.8	10.3	19	47	65
40A10342	71-94	Bx2	S	4.5	3.3	0.2	0.2	8.2	8.9	1.0		17.1	12.0	9.2	11	48	68
40A10343	94-124	Bx3	S	3.7	2.9	0.2	0.2	7.0	7.0	1.0		14.0	10.7	8.0	13	50	65
40A10344	124-157	Bx4	S	4.1	3.2	0.3	0.2	7.8	6.8	1.0		14.6	10.8	8.8	11	53	72

*** Primary Characterization Data ***

Pedon ID: 61LA033004 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Olivier

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1354

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- CO_3	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O	-16- Total Salts	-17- Elec Cond	-18- Pred Elec Cond	-19- Exch Na % 5D2	-20- SAR
				(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)										(- - - - % - - - -)		(- - dS m^{-1} - -)		
				(- Water Extracted From Saturated Paste -)																			
40A10338	0-15	Ap	S																			2	
40A10339	15-30	Bw	S																			4	
40A10340	30-51	Bt	S																			2	
40A10341	51-71	Bx1	S																			2	
40A10342	71-94	Bx2	S																			2	
40A10343	94-124	Bx3	S																			2	
40A10344	124-157	Bx4	S																			3	

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2	-3- H_2O 1:1	-4- Sat Paste 8C1b	-5- Sulf	-6- NaF	-7- Carbonate As $CaCO_3$ <2mm	-8- Carbonate As $CaCO_3$ <20mm	-9- Gypsum As $CaSO_4$*$2H_2O$ <2mm	-10- Gypsum As $CaSO_4$*$2H_2O$ <20mm	-11- Resist ohms cm^{-1}
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
										(- - - - - - - - - - - % - - - - - - - - - - -)				
40A10338	0-15	Ap	S				6.2							
40A10339	15-30	Bw	S				5.3							
40A10340	30-51	Bt	S				4.7							
40A10341	51-71	Bx1	S				4.6							
40A10342	71-94	Bx2	S				4.8							
40A10343	94-124	Bx3	S				4.9							
40A10344	124-157	Bx4	S				5.1							

*** Primary Characterization Data ***

Pedon ID: 61LA033001 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled as : Olivier
Revised to correlated on Aug 01, 1992 : Olivier ; Fine-silty, mixed, active, thermic Aquic Fragiudalf

SSL - Project NL40001 SSIR SAMPLES
- Site ID 61LA033001 Lat: 30° 41' 13.00" north Long: 91° 13' 18.00" west MLRA: 134
- Pedon No. 40A1355
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Soil Conservation Service
Lincoln Soil Survey Laboratory
Soil Laboratory
Lincoln, Nebraska

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
40A10345	Ap	AP	3-15	15036				SI
40A10346	E	A2	15-23	15037				SIL
40A10347	Bt1	B21T	23-38	15038				SIL
40A10348	Bt2	B22T	38-56	15039				SIL
40A10349	Bt3	B23T	56-76	15040				SIL
40A10350	Bx / A	B X1& A	76-94	15041				SIL
40A10351	Bx	B X2	94-132	15042				SIL
40A10352	B	B3	132-163	15043				SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
CEC Activity, CEC7/Clay, Weighted Average	0.43	(NA)
Clay, carbonate free, Weighted Average	26	% wt
Weighted Particles, 0.1-75mm, 75 mm Base	1	% wt
Volume, >2mm, Weighted Average	0	% vol
Clay, total, Weighted Average	26	% wt

Weighted averages based on control section: 23-73 cm

*** Primary Characterization Data ***

(East Baton Rouge Parish, Louisiana)

Pedon ID: 61LA033001 — Print Date: Aug 10 2011 4:00PM

Sampled As : Olivier

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1355

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1- Clay < .002 (% of <2mm Mineral Soil) 3A1	-2- Silt .002 -.05 (Total) 3A1	-3- Sand .05 -2 (Total) 3A1	-4- Fine < .0002 (Clay)	-5- CO_3 < .002 (Clay)	-6- Fine .002 -.02 (Silt) 3A1	-7- Coarse .02 -.05 (Silt) 3A1	-8- VF .05 -.10 (Sand) 3A1	-9- F .10 -.25 (Sand) 3A1	-10- M .25 -.50 (Sand) 3A1	-11- C .5 -1 (Sand) 3A1	-12- VC 1 -2 (Sand) 3A1	-13- 2 -5 (Rock Fragments (mm) Weight, % of <75mm) 3B1	-14- 5 -20 (Rock Fragments (mm) Weight, % of <75mm) 3B1	-15- 20 -75 (Rock Fragments (mm) Weight, % of <75mm) 3B1	-16- .1- 75 (Rock Fragments (mm) Weight, % of <75mm)	-17- >2 mm wt % whole soil
40A10345	3-15	Ap	S	8.3	89.0	2.7			42.0	47.0	1.2	0.4	0.4	0.5	0.2	--	--	--	2	--
40A10346	15-23	E	S	19.3	78.5	2.2			41.3	37.2	1.0	0.4	0.4	0.3	0.1	--	--	--	1	--
40A10347	23-38	Bt1	S	25.7	72.3	2.0			39.1	33.2	1.1	0.4	0.2	0.2	0.1	--	--	--	1	--
40A10348	38-56	Bt2	S	26.9	70.6	2.5			39.7	30.9	1.5	0.6	0.2	0.2	tr	--	--	--	1	--
40A10349	56-76	Bt3	S	25.5	72.1	2.4			41.1	31.0	1.2	0.5	0.2	0.3	0.2	--	--	--	1	--
40A10350	76-94	Bx / A	S	21.5	75.8	2.7			44.3	31.5	1.2	0.5	0.3	0.5	0.2	--	--	--	2	--
40A10351	94-132	Bx	S	19.7	77.6	2.7			42.1	35.5	1.3	0.7	0.4	0.2	0.1	--	--	--	1	--
40A10352	132-163	B	S	19.4	78.2	2.4			34.7	43.5	1.3	0.6	0.3	0.1	0.1	--	--	--	1	--

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa ($g\ cm^{-3}$)	-2- Oven Dry (4A1h)	-3- Cole Whole Soil	-4- 6 kPa (% of < 2mm)	-5- 10 kPa (% of < 2mm)	-6- 33 kPa (% of < 2mm) 4B1b	-7- 1500 kPa (% of < 2mm) 4B2a	-8- 1500 kPa Moist (Water Content)	-9- Ratio AD/OD (Water Content)	-10- WRD Whole Soil ($cm^3\ cm^{-3}$)	-11- Aggst Stabl 2-0.5mm %	-12- Ratio/Clay CEC7	-13- Ratio/Clay 1500 kPa
40A10345	3-15	Ap	S		1.50				20.5	5.0			0.22		0.75	0.60
40A10346	15-23	E	S							9.0					0.44	0.47
40A10347	23-38	Bt1	S							11.3					0.42	0.44
40A10348	38-56	Bt2	S		1.52				27.0	12.3			0.21		0.43	0.46
40A10349	56-76	Bt3	S							11.6					0.44	0.45
40A10350	76-94	Bx / A	S		1.54				26.1	10.8			0.22		0.49	0.50
40A10351	94-132	Bx	S							10.2					0.55	0.52
40A10352	132-163	B	S		1.64				22.3	8.8			0.20		0.56	0.45

*** Primary Characterization Data ***

(East Baton Rouge Parish, Louisiana)

Pedon ID: 61LA033001 — Print Date: Aug 10 2011 4:00PM

Sampled As : Olivier

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1355

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
				pct <0.4mm		(- - - - - - - - g cm^{-3} - - - - - - -) 4A1a			(- % of < 2mm -) 4B4							
40A10345	3-15	Ap	CLODDB			1.49			23.0							
40A10348	38-56	Bt2	CLODDB			1.44			26.2							
40A10350	76-94	Bx / A	CLODDB			1.49			25.4							
40A10352	132-163	B	CLODDB			1.60			21.0							

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- (- - - - - Total - - - - -) C	-2- N	-3- S	-4- Org C	-5- C/N Ratio	-6- (- - - Dith-Cit Ext - - -) Fe	-7- Al	-8- Mn	-9- (- - - - - - Ammonium Oxalate Extraction - - - - - -) Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- (- - - Na Pyro-Phosphate - - -) C	-16- Fe	-17- Al	-18- Mn
				(- - - - - - % of <2 mm - - - - - -)					(- % of < 2mm - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
					6B1a		6A1a		6C1a												
40A10345	3-15	Ap	S		0.077		0.78	10	1.0												
40A10346	15-23	E	S		0.040		0.24	6	1.1												
40A10347	23-38	Bt1	S		0.045		0.22	5	1.4												
40A10348	38-56	Bt2	S		0.042		0.15	4	1.7												
40A10349	56-76	Bt3	S		0.032		0.11	3	1.8												
40A10350	76-94	Bx / A	S				0.07		1.8												
40A10351	94-132	Bx	S				0.03		1.4												
40A10352	132-163	B	S				0.01		1.1												

*** Primary Characterization Data ***

Pedon ID: 61LA033001

(East Baton Rouge Parish, Louisiana)

Print Date: Aug 10 2011 4:00PM

Sampled As : Olivier

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1355

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- Sum Bases	-6- Acidity	-7- Extr Al	-8- KCl Mn	-9- CEC8 Sum Cats	-10- CEC7 NH_4 OAC	-11- ECEC Bases +Al	-12- Al Sat	-13- Base Saturation Sum	-14- Base Saturation NH_4OAC
				(- - - - - - NH_4OAC Extractable Bases - - - - -)													
				(- - - cmol(+) kg^{-1} - - -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)			(- - - % - - -)		
				6N2b	6O2b	6P2a	6Q2a		6H1a				5A1a				
40A10345	3-15	Ap	S	4.4	0.6	0.2	0.1	5.3	4.8			10.1	6.2			52	85
40A10346	15-23	E	S	5.4	1.1	0.2	0.1	6.8	4.3			11.1	8.5			61	80
40A10347	23-38	Bt1	S	5.4	2.1	0.3	0.2	8.0	6.7			14.7	10.7			54	75
40A10348	38-56	Bt2	S	3.7	2.4	0.3	0.2	6.6	9.4			16.0	11.6			41	57
40A10349	56-76	Bt3	S	2.5	3.0	0.3	0.2	6.0	9.4			15.4	11.2			39	54
40A10350	76-94	Bx / A	S	1.9	3.2	0.3	0.2	5.6	8.7			14.3	10.5			39	53
40A10351	94-132	Bx	S	2.1	3.4	0.3	0.2	6.0	8.2			14.2	10.8			42	56
40A10352	132-163	B	S	2.9	3.8	0.3	0.2	7.2	6.7			13.9	10.8			52	67

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- CO_3	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O	-16- Total Salts	-17- Elec Cond	-18- Pred Elec Cond	-19- Exch Na	-20- SAR
				(- - - Water Extracted From Saturated Paste - - -)																			
				(- - - - - mmol(+) L^{-1} - - - - -)				(- - - mmol(-) L^{-1} - - -)										(- - - - % - - - -)		(- - dS m^{-1} - -)		%	
																						5D2	
40A10345	3-15	Ap	S																			3	
40A10346	15-23	E	S																			2	
40A10347	23-38	Bt1	S																			3	
40A10348	38-56	Bt2	S																			3	
40A10349	56-76	Bt3	S																			3	
40A10350	76-94	Bx / A	S																			3	
40A10351	94-132	Bx	S																			3	
40A10352	132-163	B	S																			3	

*** Primary Characterization Data ***

Pedon ID: 61LA033001 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Olivier

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1355

pH & Carbonates

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
										As $CaCO_3$		As $CaSO_4$*$2H_2O$		Resist
	Depth				$CaCl_2$ 0.01M	H_2O	Sat			<2mm	<20mm	<2mm	<20mm	ohms
Layer	(cm)	Horz	Prep	KCl	1:2	1:1	Paste 8C1b	Sulf	NaF	(- - - - - - - - - - - - %		- - - - - - - - - - - -)		cm^{-1}
40A10345	3-15	Ap	S				5.8							
40A10346	15-23	E	S				5.6							
40A10347	23-38	Bt1	S				5.2							
40A10348	38-56	Bt2	S				5.0							
40A10349	56-76	Bt3	S				4.9							
40A10350	76-94	Bx / A	S				5.0							
40A10351	94-132	Bx	S				5.2							
40A10352	132-163	B	S				5.4							

*** Primary Characterization Data ***

Pedon ID: 61LA033003 — (East Baton Rouge Parish, Louisiana) — Print Date: Aug 10 2011 4:00PM

Sampled as : Loring
Revised to :

SSL - Project NL40001 SSIR SAMPLES
- Site ID 61LA033003 Lat: 30° 38' 45.00" north Long: 91° 17' .00" west
- Pedon No. 40A1356
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Soil Conservation Service
Lincoln Soil Survey Laboratory
Soil Laboratory
Lincoln, Nebraska

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
40A10353	Ap	AP	0-18	15051				SI
40A10354	Bw1	B11	18-25	15052				SIL
40A10355	Bw2	B12	25-33	15053				SIL
40A10356	Bt	B2 T	33-58	15054				SICL
40A10357	Bx	B X1	58-89	15055				SICL
40A10358	Oap	BX2	89-107	15056				SIL
40A10359	Oa	BX3	107-155	15057				SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
CEC Activity, CEC7/Clay, Weighted Average	0.43	(NA)
Clay, carbonate free, Weighted Average	30	% wt
Weighted Particles, 0.1-75mm, 75 mm Base	0	% wt
Volume, >2mm, Weighted Average	0	% vol
Clay, total, Weighted Average	30	% wt

Weighted averages based on control section: 33-58 cm

PSDA & Rock Fragments				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - - -)					(Rock Fragments (mm))				
				Clay	Silt	Sand	Fine	CO_3	Fine	Coarse	VF	F	M	C	VC	(- - - - - - - - Weight - - - - - - - -)				>2 mm
	Depth			<	.002	.05	<	<	.002	.02	.05	.10	.25	.5	1	2	5	20	.1-	wt %
				.002	-.05	-2	.0002	.002	-.02	-.05	-.10	-.25	-.50	-1	-2	-5	-20	-75	75	whole
Layer	(cm)	Horz	Prep	(- % of <2mm Mineral Soil -)												(- - - - - - - % of <75mm - - - - - -)				soil
				3A1	3A1	3A1			3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	3B1	3B1		
40A10353	0-18	Ap	S	7.6	89.4	3.0			37.0	52.4	1.9	0.6	0.3	0.2	tr	--	--	--	1	--
40A10354	18-25	Bw1	S	14.8	83.4	1.8			43.9	39.5	1.1	0.4	0.2	0.1	tr	--	--	--	1	--
40A10355	25-33	Bw2	S	22.2	76.5	1.3			35.9	40.6	0.9	0.2	0.1	0.1	tr	--	--	--	tr	--
40A10356	33-58	Bt	S	30.5	68.5	1.0			31.0	37.5	0.9	0.1	tr	tr	tr	--	--	--	tr	--
40A10357	58-89	Bx	S	27.9	70.9	1.2			34.9	36.0	0.9	0.2	0.1	tr	tr	--	--	--	tr	--

40A10358	89-107	Oap	S	24.4	74.4	1.2	37.8	36.6	0.9	0.2	0.1	tr	tr	--	--	--	tr	--
40A10359	107-155	Oa	S	19.4	79.4	1.2	36.2	43.2	1.1	0.1	tr	tr	tr	--	--	--	tr	--

*** Primary Characterization Data ***

Pedon ID: 61LA033003 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Loring

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1356

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa (- - - g cm^{-3} - - -)	-2- Oven Dry 4A1h	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa (- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)	-5- 10 kPa	-6- 33 kPa 4B1b	-7- 1500 kPa 4B2a	-8- 1500 kPa Moist	-9- Ratio AD/OD	-10- WRD Whole Soil cm^3 cm^{-3}	-11- Aggst Stabl 2-0.5mm %	-12- (- - Ratio/Clay - -) CEC7	-13- 1500 kPa
40A10353	0-18	Ap	S		1.42				18.2	4.4			0.20		0.75	0.58
40A10354	18-25	Bw1	S							6.2					0.43	0.42
40A10355	25-33	Bw2	S							9.5					0.40	0.43
40A10356	33-58	Bt	S		1.58				28.0	13.0			0.22		0.43	0.43
40A10357	58-89	Bx	S		1.57				26.9	12.1			0.21		0.46	0.43
40A10358	89-107	Oap	S							11.2					0.48	0.46
40A10359	107-155	Oa	S		1.55				22.9	9.4			0.20		0.54	0.48

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL pct <0.4mm	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field (- - - - - - - - g cm^{-3} - - - - - - -) 4A1a	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field (- % of < 2mm -) 4B4	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
40A10353	0-18	Ap	CLODDB			1.41			22.9							
40A10356	33-58	Bt	CLODDB			1.48			22.8							
40A10357	58-89	Bx	CLODDB			1.48			25.6							
40A10359	107-155	Oa	CLODDB			1.50			25.2							

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Pedon ID: 61LA033003 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Loring

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1356

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- C	-2- N	-3- S	-4- Org C	-5- C/N Ratio	-6- Fe	-7- Al	-8- Mn	-9- Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- C	-16- Fe	-17- Al	-18- Mn
				(- - - - - Total - - - - -)					(- - - Dith-Cit Ext - - -)			(- - - - - - Ammonium Oxalate Extraction - - - - - -)						(- - - Na Pyro-Phosphate - - -)			
				(- - - - - - % of <2 mm - - - - - -)					(- % of < 2mm - - - - - - - - - - - - - - - - - - -)								mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
					6B1a		6A1a		6C1a												
40A10353	0-18	Ap	S		0.086		0.90	10	0.4												
40A10354	18-25	Bw1	S		0.046		0.34	7	0.8												
40A10355	25-33	Bw2	S		0.050		0.34	7	1.1												
40A10356	33-58	Bt	S		0.051		0.29	6	1.5												
40A10357	58-89	Bx	S		0.033		0.15	5	1.6												
40A10358	89-107	Oap	S				0.10		1.5												
40A10359	107-155	Oa	S				0.06		1.3												

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- Sum Bases	-6- Acid-ity	-7- Extr Al	-8- KCl Mn	-9- CEC8 Sum Cats	-10- CEC7 NH_4 OAC	-11- ECEC Bases +Al	-12- Al Sat	-13- Sum	-14- NH_4OAC
				(- - - - - - NH_4OAC Extractable Bases - - - - -)												(- - - - Base - - - -)	
																(- Saturation -)	
				(- - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)			(- - - - - - - - % - - - - - - - -)		
				6N2b	6O2b	6P2a	6Q2a		6H1a				5A1a				
40A10353	0-18	Ap	S	4.3	0.4	tr	0.1	4.8	3.0			7.8	5.7			62	84
40A10354	18-25	Bw1	S	4.3	1.0	0.1	0.1	5.5	3.2			8.7	6.3			63	87
40A10355	25-33	Bw2	S	5.4	1.8	0.1	0.2	7.5	4.2			11.7	8.8			64	85
40A10356	33-58	Bt	S	6.8	3.3	0.1	0.3	10.5	6.6			17.1	13.1			61	80
40A10357	58-89	Bx	S	5.3	3.6	0.2	0.2	9.3	7.3			16.6	12.7			56	73
40A10358	89-107	Oap	S	5.0	3.7	0.2	0.2	9.1	6.4			15.5	11.6			59	78
40A10359	107-155	Oa	S	4.4	3.2	0.2	0.2	8.0	5.9			13.9	10.4			58	77

*** Primary Characterization Data ***

Pedon ID: 61LA033003 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Loring

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1356

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- CO_3	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O	-16- Total Salts	-17- Elec Cond	-18- Pred Elec Cond	-19- Exch Na % 5D2	-20- SAR
				(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)										(- - - - % - - - -)		(- - dS m^{-1} - -)		
				(- Water Extracted From Saturated Paste -)																			
40A10353	0-18	Ap	S																			--	
40A10354	18-25	Bw1	S																			2	
40A10355	25-33	Bw2	S																			1	
40A10356	33-58	Bt	S																			1	
40A10357	58-89	Bx	S																			2	
40A10358	89-107	Oap	S																			2	
40A10359	107-155	Oa	S																			2	

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2	-3- H_2O 1:1	-4- Sat Paste 8C1b	-5- Sulf	-6- NaF	-7- Carbonate As $CaCO_3$ <2mm	-8- Carbonate As $CaCO_3$ <20mm	-9- Gypsum As $CaSO_4$*$2H_2O$ <2mm	-10- Gypsum As $CaSO_4$*$2H_2O$ <20mm	-11- Resist ohms cm^{-1}
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
										(- - - - - - - - - - - - % - - - - - - - - - - -)				
40A10353	0-18	Ap	S				6.1							
40A10354	18-25	Bw1	S				6.1							
40A10355	25-33	Bw2	S				5.9							
40A10356	33-58	Bt	S				5.5							
40A10357	58-89	Bx	S				5.2							
40A10358	89-107	Oap	S				5.1							
40A10359	107-155	Oa	S				5.1							

*** Primary Characterization Data ***

Pedon ID: 61LA033005

(East Baton Rouge Parish, Louisiana)

Print Date: Aug 10 2011 4:00PM

Sampled as :
Revised to correlated on Aug 01, 1992 : Calhoun ; Fine-silty, mixed, active, thermic Aeric Glossaqualf

United States Department of Agriculture
Soil Conservation Service
Lincoln Soil Survey Laboratory
Soil Laboratory
Lincoln, Nebraska

SSL - Project NL40001 SSIR SAMPLES
- Site ID 61LA033005 Lat: 30° 22' 41.00" north Long: 91° 2' 41.00" west MLRA: 134
- Pedon No. 40A1357
- General Methods 1B1A, 2A1, 2B

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
40A10360	Cc	AP	0-15	15065				SI
40A10361	Oag	A2G	15-30	15066				SI
40A10362	Ccb	A/B	30-53	15067				SIL
40A10363	Oa / A	B&A	53-86	15068				SICL
40A10364	2Bt	B21T	86-119	15069				SIL
40A10365	Bt	B22T	119-152	15070				SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
CEC Activity, CEC7/Clay, Weighted Average	0.43	(NA)
Clay, carbonate free, Weighted Average	24	% wt
Weighted Particles, 0.1-75mm, 75 mm Base	1	% wt
Volume, >2mm, Weighted Average	0	% vol
Clay, total, Weighted Average	24	% wt

Weighted averages based on control section: 86-136 cm

PSDA & Rock Fragments

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - - -)					(Rock Fragments (mm))				
				Clay	Silt	Sand	Fine	CO_3	Fine	Coarse	VF	F	M	C	VC	(- - - - - - - - Weight - - - - - - - -)				>2 mm
				<	.002	.05	<	<	.002	.02	.05	.10	.25	.5	1	2	5	20	.1-	wt %
	Depth			.002	-.05	-2	.0002	.002	-.02	-.05	-.10	-.25	-.50	-1	-2	-5	-20	-75	75	whole
Layer	(cm)	Horz	Prep	(- % of <2mm Mineral Soil -)												(- - - - - - - % of <75mm - - - - - -)				soil
				3A1	3A1	3A1			3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	3B1	3B1		
40A10360	0-15	Cc	S	10.8	85.1	4.1			37.7	47.4	1.3	0.4	0.4	0.8	1.2	--	--	--	3	--
40A10361	15-30	Oag	S	9.8	86.8	3.4			44.0	42.8	1.2	0.4	0.2	0.7	0.9	--	--	--	2	--
40A10362	30-53	Ccb	S	17.3	80.2	2.5			38.6	41.6	1.5	0.3	0.2	0.3	0.2	--	--	--	1	--
40A10363	53-86	Oa / A	S	30.2	67.7	2.1			31.7	36.0	1.3	0.4	0.2	0.2	tr	--	--	--	1	--
40A10364	86-119	2Bt	S	25.1	73.0	1.9			34.7	38.3	1.3	0.4	0.1	0.1	tr	--	--	--	1	--
40A10365	119-152	Bt	S	21.7	76.0	2.3			34.3	41.7	1.4	0.5	0.2	0.2	tr	--	--	--	1	--

*** Primary Characterization Data ***

Pedon ID: 61LA033005 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As :

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1357

Bulk Density & Moisture

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-
				(Bulk Density)		Cole	(- - - - - - - - - - - Water Content - - - - - - - - - - -)						WRD	Aggst		
				33	Oven	Whole	6	10	33	1500	1500 kPa	Ratio	Whole	Stabl	(- - Ratio/Clay - -)	
	Depth			kPa	Dry	Soil	kPa	kPa	kPa	kPa	Moist	AD/OD	Soil	2-0.5mm	CEC7	1500 kPa
Layer	(cm)	Horz	Prep	(- - - g cm^{-3} - - -)			(- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)						cm^3 cm^{-3}	%		
					4A1h				4B1b	4B2a						
40A10360	0-15	Cc	S		1.47				21.2	5.7			0.22		0.76	0.53
40A10361	15-30	Oag	S		1.52				19.8	4.4			0.22		0.49	0.45
40A10362	30-53	Ccb	S							6.9					0.44	0.40
40A10363	53-86	Oa / A	S		1.56				24.8	12.4			0.18		0.55	0.41
40A10364	86-119	2Bt	S							10.8					0.49	0.43
40A10365	119-152	Bt	S		1.56				24.4	10.7			0.20		0.31	0.49

Water Content

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-
				(- - Atterberg - -)		(- - - - - Bulk Density - - - - -)			(- Water Content -)							
				(- - - Limits - - -)		Field	Recon	Recon	Field	Recon	(- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - -)					
				LL	PI		33	Oven		33	6	10	33	100	200	500
	Depth						kPa	Dry		kPa	kPa	kPa	kPa	kPa	kPa	kPa
Layer	(cm)	Horz	Prep	pct <0.4mm		(- - - - - - - - g cm^{-3} - - - - - - -)			(- % of < 2mm -)							
						4A1a			4B4							
40A10360	0-15	Cc	CLODDB			1.45			21.0							
40A10361	15-30	Oag	CLODDB			1.52			19.1							
40A10363	53-86	Oa / A	CLODDB			1.50			21.8							
40A10365	119-152	Bt	CLODDB			1.52			23.7							

*** Primary Characterization Data ***

Pedon ID: 61LA033005 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As :

USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1357

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- C	-2- N	-3- S	-4- Org C	-5- C/N Ratio	-6- Fe	-7- Al	-8- Mn	-9- Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- C	-16- Fe	-17- Al	-18- Mn
				(- - - - - Total - - - - -)					(- - - Dith-Cit Ext - - -)			(- - - - - - Ammonium Oxalate Extraction - - - - - -)						(- - - Na Pyro-Phosphate - - -)			
				(- - - - - - % of <2 mm - - - - - -)					(- % of < 2mm - - - - - - - - - - - - - - - - - - -)								mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
					6B1a		6A1a		6C1a												
40A10360	0-15	Cc	S		0.094		0.96	10	0.6												
40A10361	15-30	Oag	S		0.031		0.22	7	0.8												
40A10362	30-53	Ccb	S		0.031		0.14	5	1.1												
40A10363	53-86	Oa / A	S		0.042		0.14	3	1.6												
40A10364	86-119	2Bt	S				0.11		1.3												
40A10365	119-152	Bt	S				0.06		1.3												

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- Sum Bases	-6- Acid-ity	-7- Extr Al	-8- KCl Mn	-9- CEC8 Sum Cats	-10- CEC7 NH_4 OAC	-11- ECEC Bases +Al	-12- Al Sat	-13- Base Sum	-14- Base NH_4OAC
				(- - - - - - NH_4OAC Extractable Bases - - - - -)												(- - - - Base - - - -)	
																(- Saturation -)	
				(- - - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)			(- - - - - - - - % - - - - - - - -)		
				6N2b	6O2b	6P2b	6Q2a		6H1a	6G1d			5A1a				
40A10360	0-15	Cc	S	6.5	1.3	0.1	0.1	8.0	2.6	tr		10.6	8.2			75	98
40A10361	15-30	Oag	S	3.5	0.5	0.2	0.1	4.3	2.3	tr		6.6	4.8			65	90
40A10362	30-53	Ccb	S	2.9	1.6	0.3	0.1	4.9	6.0	1.0		10.9	7.6	5.9	17	45	64
40A10363	53-86	Oa / A	S	2.8	2.8	0.5	0.3	6.4	12.2	4.0		18.6	16.5	10.4	38	34	39
40A10364	86-119	2Bt	S	2.6	2.9	0.6	0.2	6.3	10.3	3.0		16.6	12.2	9.3	32	38	52
40A10365	119-152	Bt	S	1.8	0.9	0.2	0.1	3.0	8.4	2.0		11.4	6.7	5.0	40	26	45

*** Primary Characterization Data ***

Pedon ID: 61LA033005 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As :
USDA-SCS-Soil Survey Laboratory ; Pedon No. 40A1357

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- CO_3	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O	-16- Total Salts	-17- Elec Cond	-18- Pred Elec Cond	-19- Exch Na % 5D2	-20- SAR
				(- - - - - mmol(+) L^{-1} - - - - -)				(- - - - - mmol(-) L^{-1} -)										(- - - - % - - - -)		(- - dS m^{-1} - -)			
				Water Extracted From Saturated Paste																			
40A10360	0-15	Cc	S																			1	
40A10361	15-30	Oag	S																			4	
40A10362	30-53	Ccb	S																			4	
40A10363	53-86	Oa / A	S																			3	
40A10364	86-119	2Bt	S																			5	
40A10365	119-152	Bt	S																			3	

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2	-3- H_2O 1:1	-4- Sat Paste 8C1b	-5- Sulf	-6- NaF	-7- Carbonate As $CaCO_3$ <2mm	-8- Carbonate As $CaCO_3$ <20mm	-9- Gypsum As $CaSO_4$*$2H_2O$ <2mm	-10- Gypsum As $CaSO_4$*$2H_2O$ <20mm	-11- Resist ohms cm^{-1}
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - -)						(- - - - - - - - - - - % - - - - - - - - - - -)				
40A10360	0-15	Cc	S				6.4							
40A10361	15-30	Oag	S				6.2							
40A10362	30-53	Ccb	S				4.6							
40A10363	53-86	Oa / A	S				4.4							
40A10364	86-119	2Bt	S				4.6							
40A10365	119-152	Bt	S				4.9							

*** Primary Characterization Data ***

Pedon ID: 95LA033010 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled as : Scotlandville ; Fine-silty, mixed, hyperthermic Glossaquic Hapludalf
Revised to :

SSL - Project CP96LA001 LOUISIANA-MLRA 131 NO. 2
- Site ID 95LA033010 Lat: 30° 32' 20.22" north Long: 91° 8' 19.73" west MLRA: 134
- Pedon No. 96P0004
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Natural Resources Conservation Service
National Soil Survey Center
Soil Survey Laboratory
Lincoln, Nebraska 68508-3866

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
96P00029	Ap	Ap	0-6				SIL	SI
96P00030	E1	E1	6-16				SIL	SI
96P00031	E2	E2	16-25				SIL	SIL
96P00032	Bt	Bt	25-37				SIL	SIL
96P00033	Bt / E1	Bt/E1	37-53				SIL	SICL
96P00034	Bt / E2	Bt/E2	53-71				SIL	SIL
96P00035	Bt / E3	Bt/E3	71-106				SIL	SIL
96P00036	B't1	B't1	106-140				SIL	SIL
96P00037	B't2	B't2	140-171				SIL	SIL
96P00038	B't3	B't3	171-199				SIL	SIL
96P00039	2Btb1	2Btb1	199-222				SIL	SIL
96P00040	2Btb2	2Btb2	222-245				SIL	SIL
96P00041	2Btb3	2Btb3	245-285				SIL	SICL

Pedon Calculations

Calculation Name	Result	Units of Measure
Clay, carbonate free, Weighted Average	27	% wt
Volume, >2mm, Weighted Average	0	% vol
Weighted Particles, 0.1-75mm, 75 mm Base	1	% wt
Clay, total, Weighted Average	27	% wt
CEC Activity, CEC7/Clay, Weighted Average	0.4	(NA)

Weighted averages based on control section: 25-75 cm

*** Primary Characterization Data ***

Pedon ID: 95LA033010 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Scotlandville Fine-silty, mixed, hyperthermic Glossaquic Hapludalf

USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0004

PSDA & Rock Fragments				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - - Sand - - - - - - - - - - - - -)					(Rock Fragments (mm))				
				Clay	Silt	Sand	Fine	CO_3	Fine	Coarse	VF	F	M	C	VC	(- - - - - - - - Weight - - - - - - - -)				>2 mm
				<	.002	.05	<	<	.002	.02	.05	.10	.25	.5	1	2	5	20	.1-	wt %
	Depth			.002	-.05	-2	.0002	.002	-.02	-.05	-.10	-.25	-.50	-1	-2	-5	-20	-75	75	whole
Layer	(cm)	Horz	Prep	(- % of <2mm Mineral Soil -)												(- - - - - - - % of <75mm - - - - - -)				soil
				3A1	3A1	3A1			3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	3B1	3B1		
96P00029	0-6	Ap	S	11.6	84.3	4.1			35.6	48.7	2.0	0.8	0.9	0.4	--	--	--	--	2	--
96P00030	6-16	E1	S	11.3	85.3	3.4			36.9	48.4	1.5	0.7	0.8	0.4	tr	--	--	--	2	--
96P00031	16-25	E2	S	15.7	81.5	2.8			36.8	44.7	1.2	0.6	0.7	0.2	0.1	--	--	--	2	--
96P00032	25-37	Bt	S	26.0	72.0	2.0			36.4	35.6	1.0	0.4	0.4	0.2	tr	--	--	--	1	--
96P00033	37-53	Bt / E1	S	29.7	68.8	1.5			34.5	34.3	0.9	0.3	0.2	0.1	--	--	--	--	1	--
96P00034	53-71	Bt / E2	S	26.9	71.4	1.7			38.3	33.1	1.2	0.4	0.1	tr	--	--	--	--	1	--
96P00035	71-106	Bt / E3	S	21.7	76.3	2.0			39.8	36.5	1.1	0.4	0.4	0.1	--	--	--	--	1	--
96P00036	106-140	B't1	S	23.4	74.3	2.3			39.2	35.1	1.2	0.5	0.4	0.2	tr	--	--	--	1	--
96P00037	140-171	B't2	S	19.6	78.1	2.3			39.0	39.1	1.4	0.5	0.4	tr	--	--	--	--	1	--
96P00038	171-199	B't3	S	21.5	75.5	3.0			37.3	38.2	1.9	0.6	0.3	0.2	--	--	--	--	1	--
96P00039	199-222	2Btb1	S	18.9	76.5	4.6			36.5	40.0	3.4	0.8	0.3	0.1	tr	--	--	--	1	--
96P00040	222-245	2Btb2	S	19.8	71.9	8.3			36.5	35.4	5.3	1.4	0.5	0.4	0.7	--	--	--	3	--
96P00041	245-285	2Btb3	S	32.5	59.8	7.7			33.6	26.2	5.9	1.3	0.2	0.1	0.2	--	--	--	2	--

*** Primary Characterization Data ***

Pedon ID: 95LA033010 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Scotlandville Fine-silty, mixed, hyperthermic Glossaquic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0004

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa (- - - g cm^{-3} - - -) 4A1d	-2- Oven Dry 4A1h	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa (- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)	-5- 10 kPa	-6- 33 kPa 4B1c	-7- 1500 kPa 4B2a	-8- 1500 kPa Moist	-9- Ratio AD/OD 4B5	-10- WRD Whole Soil cm^3 cm^{-3} 4C1	-11- Aggst Stabl 2-0.5mm %	-12- (- - Ratio/Clay - -) CEC7 8D1	-13- 1500 kPa 8D1
96P00029	0-6	Ap	S	1.18	1.26	0.022			27.0	9.0		1.013	0.21		1.07	0.78
96P00030	6-16	E1	S	1.47	1.51	0.009			25.9	5.3		1.007	0.30		0.45	0.47
96P00031	16-25	E2	S	1.45	1.47	0.005			24.9	6.6		1.010	0.27		0.37	0.42
96P00032	25-37	Bt	S	1.40	1.49	0.021			27.1	10.6		1.016	0.23		0.37	0.41
96P00033	37-53	Bt / E1	S	1.43	1.56	0.029			26.6	12.7		1.022	0.20		0.40	0.43
96P00034	53-71	Bt / E2	S	1.44	1.54	0.023			27.6	12.2		1.022	0.22		0.41	0.45
96P00035	71-106	Bt / E3	S	1.49	1.56	0.015			26.1	10.1		1.018	0.24		0.48	0.47
96P00036	106-140	B't1	S	1.47	1.55	0.018			26.8	10.7		1.020	0.24		0.47	0.46
96P00037	140-171	B't2	S	1.48	1.55	0.016			26.2	9.6		1.016	0.25		0.54	0.49
96P00038	171-199	B't3	S	1.43	1.55	0.027			26.9	10.1		1.018	0.24		0.57	0.47
96P00039	199-222	2Btb1	S	1.42	1.55	0.030			26.2	9.8		1.018	0.23		0.63	0.52
96P00040	222-245	2Btb2	S	1.46	1.60	0.031			25.6	9.4		1.018	0.24		0.96	0.47
96P00041	245-285	2Btb3	S							15.4		1.029			0.25	0.47

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL pct <0.4mm 4F1	-2- PI 4F	-3- (- - - - - Bulk Density - - - - -) Field (- - - - - - - - g cm^{-3} - - - - - - -)	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field (- % of < 2mm -)	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
96P00029	0-6	Ap	S	NP												
96P00029[1]	0-6		S	NP												
96P00033	37-53	Bt / E1	S	39	17											
96P00033[2]	37-53		S	39	17											
96P00039	199-222	2Btb1	S	34	15											
96P00039[3]	199-222		S	34	15											

[1,2,3] Multiple values present due to instrumentation or analyzed size fraction. See laboratory for more information.

*** Primary Characterization Data ***

Pedon ID: 95LA033010 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Scotlandville Fine-silty, mixed, hyperthermic Glossaquic Hapludalf

USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0004

Carbon & Extractions

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
				(- - - - - Total - - - - -)			Org	C/N	(- - - Dith-Cit Ext - - -)			(- - - - - - Ammonium Oxalate Extraction - - - - - -)						(- - - Na Pyro-Phosphate - - -)			
	Depth			C	N	S	C	Ratio	Fe	Al	Mn	Al+½Fe	ODOE	Fe	Al	Si	Mn	C	Fe	Al	Mn
Layer	(cm)	Horz	Prep	(- - - - - - % of <2 mm - - - - - -)					(- % of < 2mm -)								mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
				6A2e	6B4a		6A1c														
96P00029	0-6	Ap	S	2.91	0.346		3.25	9													
96P00030	6-16	E1	S	0.63	0.113		0.61	5													
96P00031	16-25	E2	S	0.31	0.063		0.33	5													
96P00032	25-37	Bt	S	0.30	0.072		0.29	4													
96P00033	37-53	Bt / E1	S	0.26	0.075		0.23	3													
96P00034	53-71	Bt / E2	S	0.20	0.060		0.18	3													
96P00035	71-106	Bt / E3	S	0.10	0.048		0.12	3													
96P00036	106-140	B't1	S	0.13			0.14														
96P00037	140-171	B't2	S	0.07			0.08														
96P00038	171-199	B't3	S	0.06			0.08														
96P00039	199-222	2Btb1	S	0.07			0.08														
96P00040	222-245	2Btb2	S	0.03			0.06														
96P00041	245-285	2Btb3	S	0.05			0.06														

*** Primary Characterization Data ***

Pedon ID: 95LA033010 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Scotlandville Fine-silty, mixed, hyperthermic Glossaquic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0004

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- Sum Bases	-6- Acid-ity	-7- Extr Al	-8- KCl Mn	-9- CEC8 Sum Cats	-10- CEC7 NH_4 OAC	-11- ECEC Bases +Al	-12- Al Sat	-13- Base Sum	-14- Base NH_4OAC
				(- - - - - - NH_4OAC Extractable Bases - - - - -)								(- - - - cmol(+) kg^{-1} - - -)			(- - - - Base - - - -) (- Saturation -)		
				(- - - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -)							mg kg^{-1}				(- - - - - - - - % - - - - - - - -)		
				6N2e	6O2d	6P2b	6Q2b		6H5a	6G9c	6D3b	5A3a	5A8b	5A3b	5G1	5C3	5C1
96P00029	0-6	Ap	S	6.4	2.4	0.3	1.4	10.5	11.8	0.2	25.2	22.3	12.4	10.7	2	47	85
96P00030	6-16	E1	S	1.4	1.0	0.2	1.4	4.0	5.7	0.3	18.9	9.7	5.1	4.3	7	41	78
96P00031	16-25	E2	S	1.8	1.4	0.3	0.9	4.4	5.4	0.5	11.7	9.8	5.8	4.9	10	45	76
96P00032	25-37	Bt	S	2.6	1.8	0.5	0.7	5.6	9.1	2.0	5.4	14.7	9.6	7.6	26	38	58
96P00033	37-53	Bt / E1	S	2.3	2.3	0.4	0.9	5.9	10.0	3.7	2.0	15.9	11.9	9.6	39	37	50
96P00034	53-71	Bt / E2	S	1.7	2.2	0.7	0.7	5.3	10.2	3.0	5.0	15.5	10.9	8.3	36	34	49
96P00035	71-106	Bt / E3	S	1.3	2.1	0.4	0.6	4.4	9.2	3.0	4.7	13.6	10.4	7.4	41	32	42
96P00036	106-140	B't1	S	1.4	2.2	0.4	0.6	4.6	9.3	2.5	3.8	13.9	11.0	7.1	35	33	42
96P00037	140-171	B't2	S	2.1	2.0	0.4	0.6	5.1	8.6	3.3	3.9	13.7	10.5	8.4	39	37	49
96P00038	171-199	B't3	S	3.7	2.9	0.5	0.4	7.5	7.2	1.6	3.0	14.7	12.2	9.1	18	51	61
96P00039	199-222	2Btb1	S	5.6	3.1	0.8	0.9	10.4	5.1	0.2	3.2	15.5	11.9	10.6	2	67	87
96P00040	222-245	2Btb2	S	6.5	2.9	0.5	0.9	10.8	3.5	--	2.4	14.3	19.1			76	57
96P00041	245-285	2Btb3	S	12.5*	4.3	0.7	0.7	18.2	3.8	--	1.0	22.0	8.2			83	100

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

*** Primary Characterization Data ***

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Sampled As : Scotlandville Fine-silty, mixed, hyperthermic Glossaquic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0004

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- CO_3	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O	-16- Total Salts	-17- Elec Cond	-18- Pred Elec Cond	-19- Exch Na %	-20- SAR
				(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)										(- - - - % - - - -)		(- - dS m^{-1} - -)			
																						5D2	
96P00029	0-6	Ap	S																			2	
96P00030	6-16	E1	S																			4	
96P00031	16-25	E2	S																			5	
96P00032	25-37	Bt	S																			5	

96P00033	37-53	Bt / E1	S	3
96P00034	53-71	Bt / E2	S	6
96P00035	71-106	Bt / E3	S	4
96P00036	106-140	B't1	S	4
96P00037	140-171	B't2	S	4
96P00038	171-199	B't3	S	4
96P00039	199-222	2Btb1	S	7
96P00040	222-245	2Btb2	S	3
96P00041	245-285	2Btb3	S	9

*** Primary Characterization Data ***

Pedon ID: 95LA033010 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Scotlandville Fine-silty, mixed, hyperthermic Glossaquic Hapludalf

USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0004

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2 4C1a2a	-3- H_2O 1:1 4C1a2a	-4- Sat Paste	-5- Sulf	-6- NaF	-7- Carbonate As $CaCO_3$ <2mm	-8- Carbonate As $CaCO_3$ <20mm	-9- Gypsum As $CaSO_4$*$2H_2O$ <2mm	-10- Gypsum As $CaSO_4$*$2H_2O$ <20mm	-11- Resist ohms cm^{-1}
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
										(- - - - - - - - - - - - % - - - - - - - - - - - -)				
96P00029	0-6	Ap	S		4.2	4.3								
96P00030	6-16	E1	S		4.2	4.3								
96P00031	16-25	E2	S		4.3	4.5								
96P00032	25-37	Bt	S		4.1	4.5								
96P00033	37-53	Bt / E1	S		4.1	4.9								
96P00034	53-71	Bt / E2	S		4.2	5.1								
96P00035	71-106	Bt / E3	S		3.3	4.2								
96P00036	106-140	B't1	S		4.1	5.1								
96P00037	140-171	B't2	S		4.1	5.2								
96P00038	171-199	B't3	S		4.2	5.2								
96P00039	199-222	2Btb1	S		4.4	5.3								
96P00040	222-245	2Btb2	S		4.7	5.5								
96P00041	245-285	2Btb3	S		5.1	5.7								

*** Primary Characterization Data ***

Pedon ID: 95LA033010 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Scotlandville Fine-silty, mixed, hyperthermic Glossaquic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0004

Clay Mineralogy (<.002 mm)

Layer	Depth (cm)	Horz	Fraction	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
						X-Ray					Thermal					Elemental				EGME	Interpretation
													SiO_2	Al_2O_3	Fe_2O_3	MgO	CaO	K_2O	Na_2O	Retn	
				(- - - - - - - - -		7A2i peak size	- - - - - - - - - -)		(- - - - - - - - -		%	- - - - - - - - - -)	(- - - - - - - - - - - - - - - - - -			%	- - - - - - - - - - - - - - - - - -)			mg g^{-1}	
96P00029	0-6	Ap	tcly	KK 2	VR 2	MI 2	QZ 2														
96P00032	25-37	Bt	tcly	KK 3	MM 2	MI 2	QZ 2														
96P00040	222-245	2Btb2	tcly	MT 4	KK 3	MI 3	QZ 2	VR 1													

FRACTION INTERPRETATION:
tcly - Total Clay, <0.002 mm

MINERAL INTERPRETATION:
KK - Kaolinite MI - Mica MM - Montmorillonite-Mica MT - Montmorillonite QZ - Quartz
VR - Vermiculite

RELATIVE PEAK SIZE: 5 Very Large 4 Large 3 Medium 2 Small 1 Very Small 6 No Peaks

*** Primary Characterization Data ***

Pedon ID: 95LA033011 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled as : Comite ; Fine-silty, mixed, hyperthermic Typic Glossaqualf
Revised to :

SSL - Project CP96LA001 LOUISIANA-MLRA 131 NO. 2
- Site ID 95LA033011 Lat: 30° 38' 40.00" north Long: 91° 3' 41.00" west MLRA: 134
- Pedon No. 96P0005
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Natural Resources Conservation Service
National Soil Survey Center
Soil Survey Laboratory
Lincoln, Nebraska 68508-3866

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
96P00042	Ap	Ap	0-8				SIL	SIL
96P00043	E	E	8-19				SIL	SIL
96P00044	Bt1	Bt1	19-33				SIL	SIL
96P00045	Bt2	Bt2	33-49				SICL	SICL
96P00046	Bt3	Bt3	49-76				SICL	SICL
96P00047	Bt4	Bt4	76-104				SICL	SICL
96P00048	Bt5	Bt5	104-121				SIL	SIL
96P00049	2Btb1	2Btb1	121-150				SIL	SIL
96P00050	2Btb2	2Btb2	150-175				SICL	SIL
96P00051	2Btb3	2Btb3	175-200				SICL	SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
Weighted Particles, 0.1-75mm, 75 mm Base	8	% wt
LE, Whole Soil, Summed to 1m	3	cm/m
Clay, total, Weighted Average	27	% wt
CEC Activity, CEC7/Clay, Weighted Average	0.51	(NA)
Clay, carbonate free, Weighted Average	27	% wt
Volume, >2mm, Weighted Average	1	% vol

Weighted averages based on control section: 19-69 cm

*** Primary Characterization Data ***

Pedon ID: 95LA033011 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Comite Fine-silty, mixed, hyperthermic Typic Glossaqualf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0005

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1- Clay < .002	-2- Silt .002 -.05	-3- Sand .05 -2	-4- Fine < .0002	-5- CO_3 < .002	-6- Fine .002 -.02	-7- Coarse .02 -.05	-8- VF .05 -.10	-9- F .10 -.25	-10- M .25 -.50	-11- C .5 -1	-12- VC 1 -2	-13- 2 -5	-14- 5 -20	-15- 20 -75	-16- .1-75	-17- >2 mm wt % whole soil
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - - -)					(Rock Fragments (mm))				
																(- - - - - - - - Weight - - - - - - - -)				
				(- % of <2mm Mineral Soil -)													(- - - - - - - % of <75mm - - - - - -)				
				3A1	3A1	3A1			3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	3B1	3B1		
96P00042	0-8	Ap	S	13.4	72.2	14.4			39.5	32.7	1.7	5.6	6.1	0.7	0.3	--	--	--	13	--
96P00043	8-19	E	S	14.6	73.0	12.4			40.8	32.2	1.6	4.5	4.9	0.5	0.9	tr	--	--	11	tr
96P00044	19-33	Bt1	S	20.6	69.2	10.2			38.4	30.8	1.5	4.1	4.0	0.4	0.2	1	--	--	10	1
96P00045	33-49	Bt2	S	28.0	64.0	8.0			37.7	26.3	1.2	3.1	3.1	0.5	0.1	1	--	--	8	1
96P00046	49-76	Bt3	S	30.5	62.2	7.3			35.6	26.6	1.2	2.8	2.7	0.5	0.1	1	tr	--	7	1
96P00047	76-104	Bt4	S	27.1	65.6	7.3			37.6	28.0	1.2	2.7	2.6	0.5	0.3	--	--	--	6	--
96P00048	104-121	Bt5	S	25.4	66.1	8.5			38.5	27.6	1.3	3.2	3.0	0.6	0.4	--	--	--	7	--
96P00049	121-150	2Btb1	S	24.4	66.9	8.7			36.8	30.1	1.4	3.1	3.0	0.5	0.7	tr	--	--	8	tr
96P00050	150-175	2Btb2	S	24.7	64.5	10.8			37.5	27.0	1.5	3.8	3.6	0.7	1.2	tr	--	--	10	tr
96P00051	175-200	2Btb3	S	23.9	63.5	12.6			36.4	27.1	1.8	4.7	4.5	0.6	1.0	2	1	--	13	3

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- 33 kPa	-2- Oven Dry	-3- Cole Whole Soil	-4- 6 kPa	-5- 10 kPa	-6- 33 kPa	-7- 1500 kPa	-8- 1500 kPa Moist	-9- Ratio AD/OD	-10- WRD Whole Soil	-11- Aggst Stabl 2-0.5mm	-12- CEC7	-13- 1500 kPa
				(Bulk Density)			(- - - - - - - - - - - Water Content - - - - - - - - - - -)								(- - Ratio/Clay - -)	
				(- - - g cm^{-3} - - -)			(- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)						cm^3 cm^{-3}	%		
				4A1d	4A1h				4B1c	4B2a		4B5	4C1		8D1	8D1
96P00042	0-8	Ap	S	1.33	1.39	0.015			25.5	7.2		1.011	0.24		0.55	0.54
96P00043	8-19	E	S	1.48	1.54	0.013			23.7	7.1		1.009	0.25		0.65	0.49
96P00044	19-33	Bt1	S	1.47	1.53	0.013			23.2	9.0		1.015	0.21		0.59	0.44
96P00045	33-49	Bt2	S	1.46	1.57	0.024			23.4	11.4		1.020	0.17		0.45	0.41
96P00046	49-76	Bt3	S	1.53	1.71	0.037			21.7	11.9		1.022	0.15		0.51	0.39
96P00047	76-104	Bt4	S	1.51	1.72	0.044			22.5	12.7		1.022	0.15		0.58	0.47
96P00048	104-121	Bt5	S	1.56	1.74	0.037			22.8	11.9		1.020	0.17		0.59	0.47
96P00049	121-150	2Btb1	S	1.55	1.75	0.041			23.8	12.3		1.020	0.18		0.59	0.50
96P00050	150-175	2Btb2	S	1.70	1.83	0.025			19.0	11.9		1.018	0.12		0.52	0.48
96P00051	175-200	2Btb3	S	1.66	1.82	0.031			20.3	10.9		1.016	0.15		0.48	0.46

*** Primary Characterization Data ***

Pedon ID: 95LA033011 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Comite Fine-silty, mixed, hyperthermic Typic Glossaqualf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0005

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL (pct <0.4mm) 4F1	-2- PI (pct <0.4mm) 4F	-3- (- - - - - Bulk Density - - - - -) Field (- - - - - - - g cm^{-3} - - - - - - -)	-4- Recon 33 kPa (- - - - - - - g cm^{-3} - - - - - - -)	-5- Recon Oven Dry (- - - - - - - g cm^{-3} - - - - - - -)	-6- (- Water Content -) Field (% of < 2mm)	-7- Recon 33 kPa (% of < 2mm)	-8- (- - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - -) 6 kPa (% of < 2mm)	-9- 10 kPa (% of < 2mm)	-10- 33 kPa (% of < 2mm)	-11- 100 kPa (% of < 2mm)	-12- 200 kPa (% of < 2mm)	-13- 500 kPa (% of < 2mm)
96P00042	0-8	Ap	S	29	6											
96P00042[1]	0-8		S	29	6											
96P00045	33-49	Bt2	S	34	16											
96P00045[2]	33-49		S	34	16											
96P00051	175-200	2Btb3	S	30	15											
96P00051[3]	175-200		S	30	15											

[1,2,3] Multiple values present due to instrumentation or analyzed size fraction. See laboratory for more information.

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- (- - - - - Total - - - - -) C (- - - - - - % of <2 mm - - - - - -) 6A2e	-2- N (% of <2 mm) 6B4a	-3- S (% of <2 mm)	-4- Org C (% of <2 mm) 6A1c	-5- C/N Ratio	-6- (- - - Dith-Cit Ext - - -) Fe (% of < 2mm)	-7- Al (% of < 2mm)	-8- Mn (% of < 2mm)	-9- (- - - - - - Ammonium Oxalate Extraction - - - - - -) Al+½Fe (% of < 2mm)	-10- ODOE (% of < 2mm)	-11- Fe (% of < 2mm)	-12- Al (% of < 2mm)	-13- Si (% of < 2mm)	-14- Mn (% of < 2mm) mg kg^{-1}	-15- (- - - Na Pyro-Phosphate - - -) C (- - - - - - % of < 2mm - - - - -)	-16- Fe (% of < 2mm)	-17- Al (% of < 2mm)	-18- Mn (% of < 2mm)
96P00042	0-8	Ap	S	1.53	0.176		1.57	9													
96P00043	8-19	E	S	0.90	0.113		0.96	8													
96P00044	19-33	Bt1	S	0.47	0.074		0.48	6													
96P00045	33-49	Bt2	S	0.41	0.065		0.32	5													
96P00046	49-76	Bt3	S	0.20	0.047		0.18	4													
96P00047	76-104	Bt4	S	0.08	0.034		0.09	3													
96P00048	104-121	Bt5	S	0.04			0.05														
96P00049	121-150	2Btb1	S	0.04			0.07														
96P00050	150-175	2Btb2	S	0.05			0.05														
96P00051	175-200	2Btb3	S				0.04														

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Sampled As : Comite Fine-silty, mixed, hyperthermic Typic Glossaqualf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0005

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca (6N2e)	-2- Mg (6O2d)	-3- Na (6P2b)	-4- K (6Q2b)	-5- Sum Bases	-6- Acid-ity (6H5a)	-7- Extr Al (6G9c)	-8- KCl Mn mg kg^{-1} (6D3b)	-9- CEC8 Sum Cats (5A3a)	-10- CEC7 NH_4 OAC (5A8b)	-11- ECEC Bases +Al (5A3b)	-12- Al Sat (5G1)	-13- Sum (5C3)	-14- NH_4OAC (5C1)
				(- - - - - - NH_4OAC Extractable Bases - - - - -)								(- - - - cmol(+) kg^{-1} - - -)			(- - - - - - - - % - - - - - - - -)	(- - - - Base - - - -) (- Saturation -)	
				(- - - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -)													
96P00042	0-8	Ap	S	2.8	0.7	1.2	1.4	6.1	0.6	1.3	6.5	6.7	7.4	7.4	18	91	82
96P00043	8-19	E	S	2.6	0.5	0.3	0.7	4.1	6.2	1.5	5.9	10.3	9.5	5.6	27	40	43
96P00044	19-33	Bt1	S	0.6	0.7	0.3	0.6	2.2	7.7	3.1	2.3	9.9	12.2	5.3	58	22	18
96P00045	33-49	Bt2	S	3.2	1.3	0.5	1.1	6.1	9.3	4.6	0.6	15.4	12.6	10.7	43	40	48
96P00046	49-76	Bt3	S	4.4	2.4	1.3	0.5	8.6	9.7	3.8	1.0	18.3	15.5	12.4	31	47	55
96P00047	76-104	Bt4	S	6.5	3.6	1.9	0.6	12.6	5.6	1.0	2.7	18.2	15.6	13.6	7	69	81
96P00048	104-121	Bt5	S	7.1	3.6	2.4	0.5	13.6	3.2			16.8	14.9			81	91
96P00049	121-150	2Btb1	S	7.5*	3.5	2.9	0.6	14.5	1.6			16.1	14.5			90	100
96P00050	150-175	2Btb2	S	6.6*	2.9	2.8	0.6	12.9	2.1			15.0	12.9			86	100
96P00051	175-200	2Btb3	S	6.4*	2.5	2.8	0.5	12.2	1.9			14.1	11.4			87	100

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- CO_3	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O	-16- Total Salts	-17- Elec Cond	-18- Pred Elec Cond	-19- Exch Na % (5D2)	-20- SAR
				(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)										(- - - - % - - - -)		(- - dS m^{-1} - -)			
				(- Water Extracted From Saturated Paste -)																			
96P00042	0-8	Ap	S																			16	
96P00043	8-19	E	S																			3	
96P00044	19-33	Bt1	S																			2	
96P00045	33-49	Bt2	S																			4	
96P00046	49-76	Bt3	S																			8	
96P00047	76-104	Bt4	S																			12	
96P00048	104-121	Bt5	S																			16	
96P00049	121-150	2Btb1	S																			20	
96P00050	150-175	2Btb2	S																			22	
96P00051	175-200	2Btb3	S																			25	

*** Primary Characterization Data ***

Pedon ID: 95LA033011 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Comite Fine-silty, mixed, hyperthermic Typic Glossaqualf

USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0005

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2 4C1a2a	-3- H_2O 1:1 4C1a2a	-4- Sat Paste	-5- Sulf	-6- NaF	-7- Carbonate As $CaCO_3$ <2mm (% 6E1g)	-8- Carbonate As $CaCO_3$ <20mm (%)	-9- Gypsum As $CaSO_4$*$2H_2O$ <2mm (%)	-10- Gypsum As $CaSO_4$*$2H_2O$ <20mm (%)	-11- Resist ohms cm^{-1}
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
96P00042	0-8	Ap	S		3.9	4.1								
96P00043	8-19	E	S		4.0	4.3								
96P00044	19-33	Bt1	S		4.0	5.0								
96P00045	33-49	Bt2	S		4.0	5.2								
96P00046	49-76	Bt3	S		4.1	5.4								
96P00047	76-104	Bt4	S		4.6	5.6								
96P00048	104-121	Bt5	S		5.5	6.3								
96P00049	121-150	2Btb1	S		6.4	7.1								
96P00050	150-175	2Btb2	S		6.7	7.5								
96P00051	175-200	2Btb3	S		7.0	7.7				--				

*** Primary Characterization Data ***

Pedon ID: 95LA033011 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Comite Fine-silty, mixed, hyperthermic Typic Glossaqualf

USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0005

Clay Mineralogy (<.002 mm)

Layer	Depth (cm)	Horz	Fraction	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
						X-Ray					Thermal					Elemental				EGME	Interpretation
													SiO_2	Al_2O_3	Fe_2O_3	MgO	CaO	K_2O	Na_2O	Retn	
						7A2i															
				(- - - - - - - - - peak size - - - - - - - - - -)					(- - - - - - - - - % - - - - - - - - - -)				(- - - - - - - - - - - - - - - - - - - % - - - - - - - - - - - - - - - - - - -)							mg g^{-1}	
96P00042	0-8	Ap	tcly	KK 3	VR 2	QZ 2	MI 1														
96P00045	33-49	Bt2	tcly	KK 4	MT 2	VR 2	QZ 2	GE 2													

FRACTION INTERPRETATION:

tcly - Total Clay, <0.002 mm

MINERAL INTERPRETATION:

GE - Goethite KK - Kaolinite MI - Mica MT - Montmorillonite QZ - Quartz

VR - Vermiculite

RELATIVE PEAK SIZE: 5 Very Large 4 Large 3 Medium 2 Small 1 Very Small 6 No Peaks

*** Primary Characterization Data ***

Pedon ID: 95LA033012 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled as : Jeanerette ; Fine-silty, mixed, hyperthermic Typic Argiaquoll
Revised to :

SSL - Project CP96LA001 LOUISIANA-MLRA 131 NO. 2
- Site ID 95LA033012 Lat: 30° 22' 43.00" north Long: 91° 0' 42.00" west MLRA: 134
- Pedon No. 96P0006
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Natural Resources Conservation Service
National Soil Survey Center
Soil Survey Laboratory
Lincoln, Nebraska 68508-3866

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
96P00052	Ap1	Ap1	0-14				SIL	SIL
96P00053	Ap2	Ap2	14-28				SIL	SIL
96P00054	A	A	28-46				SICL	SIL
96P00055	AB	AB	46-60				SICL	SICL
96P00056	Btk	Btk	60-81				SICL	SICL
96P00057	Bt1	Bt1	81-107				SICL	SICL
96P00058	Bt2	Bt2	107-131				SICL	SIL
96P00059	Bt3	Bt3	131-158				SICL	SIL
96P00060	Bt4	Bt4	158-198				SICL	SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
CEC Activity, CEC7/Clay, Weighted Average	0.76	(NA)
Clay, carbonate free, Weighted Average	29	% wt
Volume, >2mm, Weighted Average	3	% vol
Weighted Particles, 0.1-75mm, 75 mm Base	5	% wt
Clay, total, Weighted Average	29	% wt
LE, Whole Soil, Summed to 1m	4	cm/m

Weighted averages based on control section: 46-96 cm

*** Primary Characterization Data ***

Pedon ID: 95LA033012 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Jeanerette Fine-silty, mixed, hyperthermic Typic Argiaquoll
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0006

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1- Clay < .002	-2- Silt .002 -.05	-3- Sand .05 -2	-4- Fine < .0002	-5- CO_3 < .002	-6- Fine .002 -.02	-7- Coarse .02 -.05	-8- VF .05 -.10	-9- F .10 -.25	-10- M .25 -.50	-11- C .5 -1	-12- VC 1 -2	-13- 2 -5	-14- 5 -20	-15- 20 -75	-16- .1-75	-17- >2 mm wt % whole soil
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - -)					(Rock Fragments (mm))				
				(- % of <2mm Mineral Soil -)												(- - - - - - - Weight - - - - - - - -)				
				3A1	3A1	3A1			3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	(- - - - - - - % of <75mm - - - - - -) 3B1	3B1		
96P00052	0-14	Ap1	S	15.9	81.6	2.5			44.5	37.1	1.4	0.3	0.2	0.3	0.3	--	--	--	1	--
96P00053	14-28	Ap2	S	16.1	81.6	2.3			46.3	35.3	1.5	0.3	0.2	0.2	0.1	--	--	--	1	--
96P00054	28-46	A	S	24.3	70.7	5.0			37.2	33.5	1.5	0.5	0.7	1.4	0.9	tr	tr	--	4	tr
96P00055	46-60	AB	S	29.8	66.8	3.4			33.3	33.5	1.6	0.5	0.7	0.3	0.3	--	tr	--	2	tr
96P00056	60-81	Btk	S	29.5	68.1	2.4			33.0	35.1	1.5	0.3	0.2	0.1	0.3	1	9	--	11	10
96P00057	81-107	Bt1	S	27.8	69.8	2.4			35.9	33.9	1.5	0.3	0.2	0.3	0.1	--	--	--	1	--
96P00058	107-131	Bt2	S	25.0	72.2	2.8			37.3	34.9	1.4	0.3	0.3	0.3	0.5	--	--	--	1	--
96P00059	131-158	Bt3	S	23.9	73.0	3.1			36.8	36.2	1.6	0.3	0.4	0.5	0.3	1	--	--	2	1
96P00060	158-198	Bt4	S	26.0	70.9	3.1			35.1	35.8	2.1	0.4	0.3	0.2	0.1	--	--	--	1	--

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa	-2- Oven Dry	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa	-5- 10 kPa	-6- 33 kPa	-7- 1500 kPa	-8- 1500 kPa Moist	-9- Ratio AD/OD	-10- WRD Whole Soil	-11- Aggst Stabl 2-0.5mm	-12- (- - Ratio/Clay - -) CEC7	-13- 1500 kPa
				(- - - g cm^{-3} - - -)			(- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)						cm^3 cm^{-3}	%		
				4A1d	4A1h				4B1c	4B2a		4B5	4C1		8D1	8D1
96P00052	0-14	Ap1	S	1.37	1.47	0.024			29.6	8.8		1.016	0.28		0.98	0.55
96P00053	14-28	Ap2	S	1.47	1.56	0.020			27.0	8.4		1.016	0.27		0.98	0.52
96P00054	28-46	A	S	1.50	1.75	0.053			25.5	12.1		1.029	0.20		0.98	0.50
96P00055	46-60	AB	S	1.50	1.75	0.053			24.3	13.7		1.032	0.16		0.80	0.46
96P00056	60-81	Btk	S	1.53	1.80	0.052			23.7	13.3		1.033	0.15		0.75	0.45
96P00057	81-107	Bt1	S	1.57	1.80	0.047			23.2	12.7		1.029	0.16		0.75	0.46
96P00058	107-131	Bt2	S	1.59	1.76	0.034			22.9	11.8		1.026	0.18		0.75	0.47
96P00059	131-158	Bt3	S	1.57	1.76	0.039			24.2	11.4		1.026	0.20		0.74	0.48
96P00060	158-198	Bt4	S	1.57	1.80	0.047			24.5	12.2		1.026	0.19		0.70	0.47

*** Primary Characterization Data ***

Pedon ID: 95LA033012 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Jeanerette Fine-silty, mixed, hyperthermic Typic Argiaquoll
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0006

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
				pct <0.4mm 4F1	4F	(- - - - - - - g cm^{-3} - - - - - - -)			(- % of < 2mm -)							
96P00052	0-14	Ap1	S	35	12											
96P00052[1]	0-14		S	35	12											
96P00056	60-81	Btk	S	43	24											
96P00056[2]	60-81		S	43	24											
96P00057	81-107	Bt1	S	40	22											
96P00057[3]	81-107		S	40	22											
96P00060	158-198	Bt4	S	39	22											
96P00060[4]	158-198		S	39	22											

[1,2,3,4] Multiple values present due to instrumentation or analyzed size fraction. See laboratory for more information.

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- (- - - - - Total - - - - -) C	-2- N	-3- S	-4- Org C	-5- C/N Ratio	-6- (- - - Dith-Cit Ext - - -) Fe	-7- Al	-8- Mn	-9- (- - - - - - Ammonium Oxalate Extraction - - - - - -) Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- (- - - Na Pyro-Phosphate - - -) C	-16- Fe	-17- Al	-18- Mn
				(- - - - - - % of <2 mm - - - - - -)					(- % of < 2mm - - - - - - - - - - - - - - - - - - -)								mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
				6A2e	6B4a		6A1c														
96P00052	0-14	Ap1	S	1.51	0.161		1.49	9													
96P00053	14-28	Ap2	S	0.97	0.094		0.91	10													
96P00054	28-46	A	S	1.04	0.091		0.89	10													
96P00055	46-60	AB	S	0.56	0.073		0.49	7													
96P00056	60-81	Btk	S	0.33	0.057		0.29	5													
96P00057	81-107	Bt1	S	0.21	0.043		0.21	5													
96P00058	107-131	Bt2	S	0.12			0.14														
96P00059	131-158	Bt3	S	0.06			0.09														
96P00060	158-198	Bt4	S	0.03			0.07														

*** Primary Characterization Data ***

Pedon ID: 95LA033012 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Jeanerette Fine-silty, mixed, hyperthermic Typic Argiaquoll
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0006

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- Sum Bases	-6- Acid-ity	-7- Extr Al	-8- KCl Mn	-9- CEC8 Sum Cats	-10- CEC7 NH_4 OAC	-11- ECEC Bases +Al	-12- Al Sat	-13- Base Sum	-14- Base NH_4OAC
				(- - - - - - NH_4OAC Extractable Bases - - - - -)								CEC8	CEC7	ECEC		(- - - - Base - - - -)	
																(- Saturation -)	
				(- - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)			(- - - - - - - - % - - - - - - - -)		
				6N2e	6O2d	6P2b	6Q2b		6H5a			5A3a	5A8b			5C3	5C1
96P00052	0-14	Ap1	S	13.0*	1.9	0.3	0.7	15.9	4.1			20.0	15.6			80	100
96P00053	14-28	Ap2	S	13.4*	1.7	0.2	1.0	16.3	2.9			19.2	15.7			85	100
96P00054	28-46	A	S	20.7*	2.3	0.3	1.0	24.3	3.4			27.7	23.9			88	100
96P00055	46-60	AB	S	21.6*	2.5	0.5	0.6	25.2	2.3			27.5	23.7			92	100
96P00056	60-81	Btk	S	28.2*	3.4	0.8	0.7	33.1	1.2			34.3	22.0			97	100
96P00057	81-107	Bt1	S	16.8	2.8	0.2	0.8	20.6	2.4			23.0	20.8			90	99
96P00058	107-131	Bt2	S	14.3	2.7	0.2	0.8	18.0	2.4			20.4	18.8			88	96
96P00059	131-158	Bt3	S	13.0	3.5	--	0.4	16.9	2.5			19.4	17.7			87	95
96P00060	158-198	Bt4	S	12.8	3.8	--	0.8	17.4	1.7			19.1	18.2			91	96

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- CO_3	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O	-16- Total Salts	-17- Elec Cond	-18- Pred Elec Cond	-19- Exch Na %	-20- SAR
				(- Water Extracted From Saturated Paste -)																			
				(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)								(- - - - % - - - -)		(- - dS m^{-1} - -)			
																						5D2	
96P00052	0-14	Ap1	S																			2	
96P00053	14-28	Ap2	S																			1	
96P00054	28-46	A	S																			1	
96P00055	46-60	AB	S																			2	
96P00056	60-81	Btk	S																			4	
96P00057	81-107	Bt1	S																			1	
96P00058	107-131	Bt2	S																			1	
96P00059	131-158	Bt3	S																			--	
96P00060	158-198	Bt4	S																			--	

*** Primary Characterization Data ***

Pedon ID: 95LA033012 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Jeanerette Fine-silty, mixed, hyperthermic Typic Argiaquoll

USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0006

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2 4C1a2a	-3- H_2O 1:1 4C1a2a	-4- Sat Paste	-5- Sulf	-6- NaF	-7- Carbonate As $CaCO_3$ <2mm 6E1g	-8- Carbonate As $CaCO_3$ <20mm	-9- Gypsum As $CaSO_4$*$2H_2O$ <2mm	-10- Gypsum As $CaSO_4$*$2H_2O$ <20mm	-11- Resist ohms cm^{-1}
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
										(- - - - - - - - - - - - % - - - - - - - - - - -)				
96P00052	0-14	Ap1	S		5.7	6.0								
96P00053	14-28	Ap2	S		6.1	6.6								
96P00054	28-46	A	S		6.4	7.0								
96P00055	46-60	AB	S		6.9	7.5								
96P00056	60-81	Btk	S		7.6	8.0				tr				
96P00057	81-107	Bt1	S		6.7	7.3								
96P00058	107-131	Bt2	S		6.5	7.0								
96P00059	131-158	Bt3	S		6.2	6.8								
96P00060	158-198	Bt4	S		6.3	6.8								

*** Primary Characterization Data ***

Pedon ID: 95LA033012 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Jeanerette Fine-silty, mixed, hyperthermic Typic Argiaquoll
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 96P0006

Clay Mineralogy (<.002 mm)

Layer	Depth (cm)	Horz	Fraction	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
				X-Ray					Thermal				Elemental							EGME Retn	Interpretation
				7A2i									SiO_2	Al_2O_3	Fe_2O_3	MgO	CaO	K_2O	Na_2O		
				(- - - - - - - - - peak size - - - - - - - - - -)					(- - - - - - - - - % - - - - - - - - - -)				(- - - - - - - - - - - - - - - - - - - % - - - - - - - - - - - - - - - - - - -)							mg g^{-1}	
96P00052	0-14	Ap1	tcly	MT 3	KK 3	QZ 2															
96P00056	60-81	Btk	tcly	MT 4	KK 3	MI 2	QZ 1														
96P00057	81-107	Bt1	tcly	MT 4	KK 2	MI 2	VR 2	QZ 2													

FRACTION INTERPRETATION:
tcly - Total Clay, <0.002 mm

MINERAL INTERPRETATION:
KK - Kaolinite MI - Mica MT - Montmorillonite QZ - Quartz VR - Vermiculite

RELATIVE PEAK SIZE: 5 Very Large 4 Large 3 Medium 2 Small 1 Very Small 6 No Peaks

*** Primary Characterization Data ***

Pedon ID: 97LA033002 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled as : Deerford ; Fine-silty, mixed, hyperthermic Albic Glossic Natraqualf
Revised to correlated on Mar 15, 2007 : Deerford ; Fine-silty, mixed, superactive, thermic Albic Glossic Natraqualf

SSL - Project CP97LA097 LOUISIANA HYPERTHERMIC 1
- Site ID 97LA033002 Lat: 30° 24' 56.50" north Long: 91° 7' 4.00" west NAD83 MLRA: 134
- Pedon No. 97P0453
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Natural Resources Conservation Service
National Soil Survey Center
Soil Survey Laboratory
Lincoln, Nebraska 68508-3866

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
97P02669	Ap	Ap	0-11				SI	SIL
97P02670	E1	E1	11-26				SI	SIL
97P02671	E2	E2	26-40				SI	SIL
97P02672	Bt / E	Bt/E	40-58				SIL	SIL
97P02673	Btn	Btn	58-77				SICL	SICL
97P02674	Btkn	Btkn	77-97				SIL	SIL
97P02675	Btn1	Btn1	97-118				SIL	SIL
97P02676	Btn2	Btn2	118-142				SIL	SIL
97P02677	Btn3	Btn3	142-173				SIL	SIL
97P02678	Btn4	Btn4	173-206				SIL	SIL
97P02679	Bth5	Bth5	206-233				SIL	SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
LE, Whole Soil, Summed to 1m	2	cm/m
Clay, carbonate free, Weighted Average	25	% wt
Volume, >2mm, Weighted Average	0	% vol
Weighted Particles, 0.1-75mm, 75 mm Base	2	% wt
Clay, total, Weighted Average	25	% wt
CEC Activity, CEC7/Clay, Weighted Average	0.71	(NA)

Weighted averages based on control section: 58-108 cm

*** Primary Characterization Data ***

Pedon ID: 97LA033002 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Deerford Fine-silty, mixed, hyperthermic Albic Glossic Natraqualf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0453

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1- Clay < .002	-2- Silt .002 -.05	-3- Sand .05 -2	-4- Clay Fine < .0002	-5- CO_3 < .002	-6- Silt Fine .002 -.02	-7- Silt Coarse .02 -.05	-8- Sand VF .05 -.10	-9- Sand F .10 -.25	-10- Sand M .25 -.50	-11- Sand C .5 -1	-12- Sand VC 1 -2	-13- Rock Fragments (mm) Weight 2 -5	-14- 5 -20	-15- 20 -75	-16- .1-75	-17- >2 mm wt % whole soil
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - -)					(Rock Fragments (mm))				
				(- % of <2mm Mineral Soil -)												(- - - - - - - Weight - - - - - - - -)				
				3A1	3A1	3A1	3A1		3A1	3A1	3A1	3A1	3A1	3A1	3A1	(- - - - - - - % of <75mm - - - - - -) 3B1	3B1	3B1		
97P02669	0-11	Ap	S	12.0	85.3	2.7	8.9		38.5	46.8	1.7	0.4	0.2	0.2	0.2	tr	--	--	1	--
97P02670	11-26	E1	S	14.1	83.6	2.3	10.3		41.1	42.5	1.3	0.3	0.3	0.2	0.2	--	--	--	1	--
97P02671	26-40	E2	S	18.7	79.4	1.9	13.4		40.8	38.6	1.2	0.2	0.2	0.2	0.1	--	--	--	1	--
97P02672	40-58	Bt / E	S	24.3	73.4	2.3	17.5		37.8	35.6	1.1	0.3	0.4	0.3	0.2	--	--	--	1	--
97P02673	58-77	Btn	S	30.5	66.5	3.0	17.5		35.1	31.4	1.3	0.4	0.5	0.5	0.3	--	--	--	2	--
97P02674	77-97	Btkn	S	23.8	73.2	3.0	12.4		37.7	35.5	0.8	0.2	0.5	0.8	0.7	--	tr	--	2	tr
97P02675	97-118	Btn1	S	19.3	77.7	3.0	10.5		37.8	39.9	0.9	0.2	0.4	0.7	0.8	--	--	--	2	--
97P02676	118-142	Btn2	S	16.3	80.8	2.9	8.7		36.0	44.8	1.2	0.3	0.4	0.4	0.6	tr	1	--	3	1
97P02677	142-173	Btn3	S	14.3	81.8	3.9	7.3		35.5	46.3	1.3	0.4	0.5	1.0	0.7	tr	tr	--	3	tr
97P02678	173-206	Btn4	S	15.6	80.7	3.7	8.5		37.9	42.8	1.5	0.6	0.8	0.6	0.2	tr	tr	--	2	tr
97P02679	206-233	Bth5	S	17.7	79.2	3.1	10.5		37.5	41.7	1.6	0.4	0.4	0.4	0.3	tr	--	--	2	tr

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa (- - - g cm^{-3} - - -) 4A1d	-2- Oven Dry 4A1h	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa (- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)	-5- 10 kPa	-6- 33 kPa 4B1c	-7- 1500 kPa 4B2a	-8- 1500 kPa Moist	-9- Ratio AD/OD 4B5	-10- WRD Whole Soil cm^3 cm^{-3} 4C1	-11- Aggst Stabl 2-0.5mm %	-12- (- - Ratio/Clay - -) CEC7 8D1	-13- 1500 kPa 8D1
97P02669	0-11	Ap	S	1.20	1.25	0.014			36.4	8.2		1.015	0.34		0.87	0.68
97P02670	11-26	E1	S	1.39	1.43	0.010			24.3	7.1		1.014	0.24		0.62	0.50
97P02671	26-40	E2	S	1.37	1.43	0.014			25.2	9.0		1.018	0.22		0.62	0.48
97P02672	40-58	Bt / E	S	1.51	1.61	0.022			22.6	12.7		1.026	0.15		0.67	0.52
97P02673	58-77	Btn	S	1.52	1.72	0.042			23.8	16.7		1.036	0.11		0.71	0.55
97P02674	77-97	Btkn	S	1.53	1.68	0.032			24.3	13.6		1.028	0.16		0.70	0.57
97P02675	97-118	Btn1	S	1.49	1.61	0.026			24.8	11.4		1.022	0.20		0.73	0.59
97P02676	118-142	Btn2	S	1.44	1.54	0.023			26.2	10.1		1.020	0.23		0.80	0.62
97P02677	142-173	Btn3	S	1.49	1.54	0.011			24.5	9.0		1.018	0.23		0.85	0.63
97P02678	173-206	Btn4	S	1.46	1.53	0.016			25.9	9.4		1.019	0.24		0.78	0.60
97P02679	206-233	Bth5	S	1.58	1.65	0.015			23.0	10.0		1.019	0.21		0.72	0.56

*** Primary Characterization Data ***

Pedon ID: 97LA033002 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Deerford Fine-silty, mixed, hyperthermic Albic Glossic Natraqualf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0453

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
				pct <0.4mm		(- - - - - - - g cm^{-3} - - - - - - -)			(- % of < 2mm -)							
				4F1	4F										4B1a	
97P02669	0-11	Ap	S	35	8										12.0	
97P02669[1]	0-11		S	35	8											
97P02670	11-26	E1	S												10.8	
97P02671	26-40	E2	S												13.7	
97P02672	40-58	Bt / E	S												18.1	
97P02673	58-77	Btn	S												22.7	
97P02674	77-97	Btkn	S												19.4	
97P02675	97-118	Btn1	S	34	13										16.7	
97P02675[2]	97-118		S	34	13											
97P02676	118-142	Btn2	S												14.4	
97P02677	142-173	Btn3	S												12.9	
97P02678	173-206	Btn4	S												13.6	
97P02679	206-233	Bth5	S												14.9	

[1,2] Multiple values present due to instrumentation or analyzed size fraction. See laboratory for more information.

*** Primary Characterization Data ***

Pedon ID: 97LA033002 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Deerford Fine-silty, mixed, hyperthermic Albic Glossic Natraqualf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0453

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- (- - - - - Total - - - - -) C	-2- N	-3- S	-4- Org C	-5- C/N Ratio	-6- (- - - Dith-Cit Ext - - -) Fe	-7- Al	-8- Mn	-9- (- - - - - - Ammonium Oxalate Extraction - - - - - -) Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- (- - - Na Pyro-Phosphate - - -) C	-16- Fe	-17- Al	-18- Mn
				(- - - - - - % of <2 mm - - - - - - -)					(- % of < 2mm - - - - - - - - - - - - - - - - - - -)								mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
					6B4a		6A1c														
97P02669	0-11	Ap	S		0.190		1.88	10													
97P02670	11-26	E1	S		0.053		0.40	8													
97P02671	26-40	E2	S		0.053		0.27	5													

97P02672	40-58	Bt / E	S	0.036	0.20	6
97P02673	58-77	Btn	S	0.036	0.16	5
97P02674	77-97	Btkn	S	0.029	0.10	3
97P02675	97-118	Btn1	S	0.032	0.08	2
97P02676	118-142	Btn2	S		0.03	
97P02677	142-173	Btn3	S		0.05	
97P02678	173-206	Btn4	S		0.03	
97P02679	206-233	Bth5	S		0.03	

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- Sum Bases	-6- Acid-ity	-7- Extr Al	-8- KCl Mn	-9- CEC8 Sum Cats	-10- CEC7 NH_4 OAC	-11- ECEC Bases +Al	-12- Al Sat	-13- Base Sum	-14- Base NH_4OAC
				(- - - - - - NH_4OAC Extractable Bases - - - - -)											(- - - - Base - - - -) (- Saturation -)		
				(- - - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)			(- - - - - - - - % - - - - - - - -)		
				6N2e	6O2d	6P2b	6Q2b		6H5a	6G9c	6D3b	5A3a	5A8b	5A3b	5G1	5C3	5C1
97P02669	0-11	Ap	S	4.6	1.5	0.3	0.3	6.7	9.1	2.0	14.1	15.8	10.4	8.7	23	42	64
97P02670	11-26	E1	S	3.3	1.6	0.5	0.4	5.8	6.2	1.9	10.0	12.0	8.8	7.7	25	48	66
97P02671	26-40	E2	S	3.6	2.8	1.0	0.5	7.9	4.6	0.8	4.5	12.5	11.6	8.7	9	63	68
97P02672	40-58	Bt / E	S	7.9	4.8	1.2	0.4	14.3	4.2			18.5	16.2			77	88
97P02673	58-77	Btn	S	9.7	7.3	2.3	0.5	19.8	3.2			23.0	21.8			86	91
97P02674	77-97	Btkn	S	8.0	5.6	2.2	0.4	16.2	2.6			18.8	16.7			86	97
97P02675	97-118	Btn1	S	6.9*	5.0	2.2	0.5	14.6	1.8			16.4	14.1			89	100
97P02676	118-142	Btn2	S	6.0	4.7	1.7	0.5	12.9	1.4			14.3	13.1			90	98
97P02677	142-173	Btn3	S	6.6*	4.5	1.4	0.5	13.0	1.6			14.6	12.2			89	100
97P02678	173-206	Btn4	S	8.3*	4.4	1.1	0.4	14.2	1.6			15.8	12.2			90	100
97P02679	206-233	Bth5	S	7.9*	4.6	1.2	0.5	14.2	2.0			16.2	12.8			88	100

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

*** Primary Characterization Data ***

Pedon ID: 97LA033002 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Deerford Fine-silty, mixed, hyperthermic Albic Glossic Natraqualf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0453

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- CO_3	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O	-16- Total Salts	-17- Elec Cond	-18- Pred Elec Cond	-19- Exch Na %	-20- SAR
				(- Water Extracted From Saturated Paste -)																			
				(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)								(- - - - % - - - -)		(- - dS m^{-1} - -)			
				6N1b	6O1b	6P1b	6Q1b	6I1b	6J1b	6U1b	6K1d				6L1d	6W1b	6M1d	8A	8D5	8A3a	8I	5D2	5E
97P02669	0-11	Ap	S																		0.05	3	
97P02670	11-26	E1	S																		0.03	6	
97P02671	26-40	E2	S																		0.03	9	
97P02672	40-58	Bt / E	S																		0.08	7	
97P02673	58-77	Btn	S	0.8	0.2	3.6	0.1	--	1.0	0.2	1.4				2.3	--	tr	75.6	tr	0.54	0.29	9	5
97P02674	77-97	Btkn	S	0.7	0.3	5.5	0.1	--	1.4	0.3	2.4				2.7	--	tr	62.5	tr	0.74	0.33	11	8
97P02675	97-118	Btn1	S	--	0.2	5.2	0.1	--	1.4	0.3	2.6				2.2	--	--	66.3	tr	0.70	0.33	13	16
97P02676	118-142	Btn2	S	0.7	0.2	5.1	0.1	--	1.3	0.4	2.5				2.1	--	--	54.1	tr	0.70	0.25	11	8

97P02677	142-173	Btn3	S	0.20	11
97P02678	173-206	Btn4	S	0.19	9
97P02679	206-233	Bth5	S	0.17	9

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2 4C1a2a	-3- H_2O 1:1 4C1a2a	-4- Sat Paste 8C1b	-5- Sulf	-6- NaF	-7- (- - Carbonate - -) As $CaCO_3$ <2mm 6E1g	-8- <20mm	-9- (- - Gypsum - - -) As $CaSO_4$*$2H_2O$ <2mm	-10- <20mm	-11- Resist ohms cm^{-1}
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - - -)						(- - - - - - - - - - - - % - - - - - - - - - - -)				
97P02669	0-11	Ap	S		4.1	4.8								
97P02670	11-26	E1	S		4.3	4.9								
97P02671	26-40	E2	S		4.6	5.4								
97P02672	40-58	Bt / E	S		5.5	6.4								
97P02673	58-77	Btn	S		6.7	7.2	7.4							
97P02674	77-97	Btkn	S		7.3	8.2	7.9			tr				
97P02675	97-118	Btn1	S		7.5	8.2	8.2			--				
97P02676	118-142	Btn2	S		7.4	8.3	8.1			tr				
97P02677	142-173	Btn3	S		7.4	8.2				tr				
97P02678	173-206	Btn4	S		7.4	8.0				--				
97P02679	206-233	Bth5	S		7.4	8.3				tr				

*** Primary Characterization Data ***

Pedon ID: 97LA033002 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Deerford Fine-silty, mixed, hyperthermic Albic Glossic Natraqualf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0453

Clay Mineralogy (<.002 mm)

Layer	Depth (cm)	Horz	Fraction	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
						X-Ray					Thermal					Elemental				EGME	Interpretation
													SiO_2	Al_2O_3	Fe_2O_3	MgO	CaO	K_2O	Na_2O	Retn	
				(- - - - - - - - - 7A2i peak size - - - - - - - - - -)					(- - - - - - - - - % - - - - - - - - - -)				(- - - - - - - - - - - - - - - - - - - % - - - - - - - - - - - - - - - - - - -)							mg g^{-1}	
97P02672	40-58	Bt / E	tcly	MT 3	KK 2	MI 1															
97P02673	58-77	Btn	tcly	VR 2	MT 2	KK 2	MI 2														
97P02674	77-97	Btkn	tcly	VR 2	KK 2	MT 2	MI 2														

FRACTION INTERPRETATION:
tcly - Total Clay, <0.002 mm

MINERAL INTERPRETATION:
KK - Kaolinite MI - Mica MT - Montmorillonite VR - Vermiculite

RELATIVE PEAK SIZE: 5 Very Large 4 Large 3 Medium 2 Small 1 Very Small 6 No Peaks

*** Primary Characterization Data ***

Pedon ID: 97LA033003 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled as : Klienpeter ; Fine-silty, mixed, hyperthermic Glossic Hapludalf
Revised to correlated on Mar 16, 2007 : Feliciana ; Fine-silty, mixed, active, thermic Ultic Hapludalf

SSL - Project CP97LA097 LOUISIANA HYPERTHERMIC 1
- Site ID 97LA033003 Lat: 30° 39' 50.61" north Long: 91° 14' 8.62" west NAD83 MLRA: 134
- Pedon No. 97P0454
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Natural Resources Conservation Service
National Soil Survey Center
Soil Survey Laboratory
Lincoln, Nebraska 68508-3866

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
97P02680	Ap	Ap	0-15				SIC	SI
97P02681	AB	AB	15-31				SIC	SIL
97P02682	Bt1	Bt1	31-57				SICL	SICL
97P02683	Bt2	Bt2	57-87				SICL	SICL
97P02684	Bt3	Bt3	87-109				SIC	SIL
97P02685	Bt / E1	Bt/E1	109-143				SIL	SIL
97P02686	Bt / E2	Bt/E2	143-174				SIL	SIL
97P02687	E / Bt	E/Bt	174-197				SIC	SIL
97P02688	2Bt / E1	2Bt/E1	197-223				SIL	SIL
97P02689	2Bt / E2	2Bt/E2	223-252				SIL	SIL
97P02690	2Bt	2Bt	252-275				L	CL

Pedon Calculations

Calculation Name	Result	Units of Measure
Clay, carbonate free, Weighted Average	28	% wt
Volume, >2mm, Weighted Average	0	% vol
Weighted Particles, 0.1-75mm, 75 mm Base	1	% wt
Clay, total, Weighted Average	28	% wt
LE, Whole Soil, Summed to 1m	2	cm/m
CEC Activity, CEC7/Clay, Weighted Average	0.46	(NA)

Weighted averages based on control section: 31-81 cm

*** Primary Characterization Data ***

Pedon ID: 97LA033003 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Klienpeter Fine-silty, mixed, hyperthermic Glossic Hapludalf

USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0454

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1- Clay < .002	-2- Silt .002 -.05	-3- Sand .05 -2	-4- Clay Fine < .0002	-5- CO_3 < .002	-6- Silt Fine .002 -.02	-7- Silt Coarse .02 -.05	-8- Sand VF .05 -.10	-9- Sand F .10 -.25	-10- Sand M .25 -.50	-11- Sand C .5 -1	-12- Sand VC 1 -2	-13- Rock Fragments (mm) Weight 2 -5	-14- 5 -20	-15- 20 -75	-16- .1- 75	-17- >2 mm wt % whole soil
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - -)					(Rock Fragments (mm))				
				(- % of <2mm Mineral Soil -)												(- - - - - - - Weight - - - - - - - -)				
				3A1	3A1	3A1	3A1		3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	3B1	3B1		
																(- - - - - - - % of <75mm - - - - - -)				
97P02680	0-15	Ap	S	10.7	82.8	6.5	5.6		32.3	50.5	1.8	2.3	1.8	0.3	0.3	1	1	tr	8	2
97P02681	15-31	AB	S	12.1	83.5	4.4	5.3		35.2	48.3	1.4	1.5	1.1	0.3	0.1	tr	1	--	4	1
97P02682	31-57	Bt1	S	28.7	70.1	1.2	15.3		33.6	36.5	0.6	0.4	0.1	0.1	--	--	--	--	1	--
97P02683	57-87	Bt2	S	27.6	71.2	1.2	12.8		36.6	34.6	0.8	0.3	0.1	tr	--	--	--	--	tr	--
97P02684	87-109	Bt3	S	23.0	75.6	1.4	9.4		37.9	37.7	1.0	0.3	0.1	tr	tr	--	--	--	tr	--
97P02685	109-143	Bt / E1	S	20.6	77.5	1.9	8.9		38.2	39.3	1.1	0.5	0.3	tr	--	--	--	--	1	--
97P02686	143-174	Bt / E2	S	17.5	73.6	8.9	11.6		33.7	39.9	2.3	4.0	2.3	0.3	tr	--	--	--	7	--
97P02687	174-197	E / Bt	S	18.3	64.8	16.9	12.9		26.8	38.0	3.5	7.5	4.9	0.7	0.3	--	--	--	13	--
97P02688	197-223	2Bt / E1	S	20.0	59.5	20.5	15.3		24.3	35.2	4.3	9.3	6.0	0.5	0.4	8	--	--	23	8
97P02689	223-252	2Bt / E2	S	22.2	55.3	22.5	17.3		21.0	34.3	4.5	10.9	6.7	0.3	0.1	tr	--	--	18	tr
97P02690	252-275	2Bt	S	27.0	48.5	24.5	20.9		20.5	28.0	5.2	12.2	6.6	0.3	0.2	--	--	--	19	--

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa	-2- Oven Dry	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa	-5- 10 kPa	-6- 33 kPa	-7- 1500 kPa	-8- 1500 kPa Moist	-9- Ratio AD/OD	-10- WRD Whole Soil	-11- Aggst Stabl 2-0.5mm	-12- (- - Ratio/Clay - -) CEC7	-13- 1500 kPa
				(- - - g cm^{-3} - - -)			(- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)						cm^3 cm^{-3}	%		
				4A1d	4A1h				4B1c	4B2a		4B5	4C1		8D1	8D1
97P02680	0-15	Ap	S	1.40	1.42	0.005			25.3	8.0		1.014	0.24		1.22	0.75
97P02681	15-31	AB	S	1.45	1.47	0.005			23.3	6.7		1.011	0.24		0.77	0.55
97P02682	31-57	Bt1	S	1.39	1.58	0.044			29.8	13.8		1.025	0.22		0.46	0.48
97P02683	57-87	Bt2	S	1.46	1.55	0.020			27.5	13.8		1.025	0.20		0.47	0.50
97P02684	87-109	Bt3	S	1.43	1.56	0.029			27.7	11.3		1.023	0.23		0.52	0.49
97P02685	109-143	Bt / E1	S	1.46	1.59	0.029			26.9	9.9		1.020	0.25		0.53	0.48
97P02686	143-174	Bt / E2	S	1.51	1.62	0.024			23.4	8.5		1.015	0.22		0.48	0.49
97P02687	174-197	E / Bt	S	1.54	1.66	0.025			22.0	8.7		1.014	0.20		0.42	0.48
97P02688	197-223	2Bt / E1	S	1.58	1.69	0.021			20.5	9.4		1.015	0.17		0.41	0.47
97P02689	223-252	2Bt / E2	S	1.62	1.73	0.022			19.9	10.4		1.015	0.15		0.37	0.47
97P02690	252-275	2Bt	S	1.68	1.78	0.019			18.5	12.4		1.017	0.10		0.33	0.46

*** Primary Characterization Data ***

Pedon ID: 97LA033003 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Klienpeter Fine-silty, mixed, hyperthermic Glossic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0454

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
				pct <0.4mm		(- - - - - - - g cm^{-3} - - - - - - -)			(- % of < 2mm -)							
				4F1	4F										4B1a	
97P02680	0-15	Ap	S	34	7										11.3	
97P02680[1]	0-15		S	34	7											
97P02681	15-31	AB	S												9.7	
97P02682	31-57	Bt1	S												18.7	
97P02683	57-87	Bt2	S												20.1	
97P02684	87-109	Bt3	S	36	15										16.9	
97P02684[2]	87-109		S	36	15											
97P02685	109-143	Bt / E1	S												15.2	
97P02686	143-174	Bt / E2	S												12.6	
97P02687	174-197	E / Bt	S												11.8	
97P02688	197-223	2Bt / E1	S												12.9	
97P02689	223-252	2Bt / E2	S												13.7	
97P02690	252-275	2Bt	S												15.1	

[1,2] Multiple values present due to instrumentation or analyzed size fraction. See laboratory for more information.

*** Primary Characterization Data ***

Pedon ID: 97LA033003 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Klienpeter Fine-silty, mixed, hyperthermic Glossic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0454

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- (- - - - - Total - - - - -) C	-2- N	-3- S	-4- Org C	-5- C/N Ratio	-6- (- - - Dith-Cit Ext - - -) Fe	-7- Al	-8- Mn	-9- (- - - - - - Ammonium Oxalate Extraction - - - - - -) Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- (- - - Na Pyro-Phosphate - - -) C	-16- Fe	-17- Al	-18- Mn
				(- - - - - - % of <2 mm - - - - - - -)					(- % of < 2mm - - - - - - - - - - - - - - - - - - -)								mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
					6B4a		6A1c														
97P02680	0-15	Ap	S		0.212		2.01	9													
97P02681	15-31	AB	S		0.099		0.80	8													
97P02682	31-57	Bt1	S		0.065		0.28	4													

97P02683	57-87	Bt2	S	0.046	0.14	3
97P02684	87-109	Bt3	S	0.048	0.09	2
97P02685	109-143	Bt / E1	S		0.08	
97P02686	143-174	Bt / E2	S		0.04	
97P02687	174-197	E / Bt	S		0.07	
97P02688	197-223	2Bt / E1	S		0.06	
97P02689	223-252	2Bt / E2	S		0.06	
97P02690	252-275	2Bt	S		0.07	

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- Sum Bases	-6- Acid-ity	-7- Extr Al	-8- KCl Mn	-9- CEC8 Sum Cats	-10- CEC7 NH_4 OAC	-11- ECEC Bases +Al	-12- Al Sat	-13- Base Sum	-14- Base NH_4OAC
				(- - - - - - NH_4OAC Extractable Bases - - - - -)												(- - - - Base - - - -) (- Saturation -)	
				(- - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)			(- - - - - - - - % - - - - - - - -)		
				6N2e	6O2d	6P2b	6Q2b		6H5a			5A3a	5A8b			5C3	5C1
97P02680	0-15	Ap	S	19.3*	1.5	0.4	0.8	22.0	3.0			25.0	13.1			88	100
97P02681	15-31	AB	S	8.3*	0.8	0.1	0.6	9.8	3.3			13.1	9.3			75	100
97P02682	31-57	Bt1	S	11.0*	1.4	0.5	0.8	13.7	3.0			16.7	13.3			82	100
97P02683	57-87	Bt2	S	9.0	1.4	0.6	1.4	12.4	3.1			15.5	13.1			80	95
97P02684	87-109	Bt3	S	7.7	1.8	0.8	1.2	11.5	3.3			14.8	11.9			78	97
97P02685	109-143	Bt / E1	S	8.4*	2.0	0.5	0.8	11.7	3.6			15.3	11.0			76	100
97P02686	143-174	Bt / E2	S	6.2*	2.1	0.6	0.7	9.6	2.0			11.6	8.4			83	100
97P02687	174-197	E / Bt	S	5.3*	2.4	0.7	0.6	9.0	2.2			11.2	7.6			80	100
97P02688	197-223	2Bt / E1	S	3.7	3.0	0.5	0.5	7.7	2.8			10.5	8.1			73	95
97P02689	223-252	2Bt / E2	S	3.5	3.2	1.0	0.4	8.1	3.4			11.5	8.2			70	99
97P02690	252-275	2Bt	S	5.1*	2.5	0.5	0.8	8.9	3.0			11.9	8.8			75	100

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

*** Primary Characterization Data ***

Pedon ID: 97LA033003 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Klienpeter Fine-silty, mixed, hyperthermic Glossic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0454

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- CO_3	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O	-16- Total Salts	-17- Elec Cond	-18- Pred Elec Cond	-19- Exch Na %	-20- SAR
				(- Water Extracted From Saturated Paste -)																			
				(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)								(- - - - % - - - -)		(- - dS m^{-1} - -)			
										6U1b	6K1d				6L1d		6M1d		8D5			5D2	
97P02680	0-15	Ap	S																			3	
97P02681	15-31	AB	S																			1	
97P02682	31-57	Bt1	S																			4	
97P02683	57-87	Bt2	S																			5	
97P02684	87-109	Bt3	S																			7	
97P02685	109-143	Bt / E1	S							--	13.8				10.7		--		tr			5	
97P02686	143-174	Bt / E2	S							1.2	19.1				9.8		--		tr			7	
97P02687	174-197	E / Bt	S																			9	

97P02688	197-223	2Bt / E1	S													6
97P02689	223-252	2Bt / E2	S													12
97P02690	252-275	2Bt	S						8.5			5.2	--	tr		6

pH & Carbonates

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
										As $CaCO_3$		As $CaSO_4$*$2H_2O$		Resist
	Depth				$CaCl_2$ 0.01M	H_2O	Sat			<2mm	<20mm	<2mm	<20mm	ohms
Layer	(cm)	Horz	Prep	KCl	1:2	1:1	Paste	Sulf	NaF	(- - - - - - - - - - - - % - - - - - - - - - - - -)				cm^{-1}
					4C1a2a	4C1a2a				6E1g				
97P02680	0-15	Ap	S		7.0	7.7				tr				
97P02681	15-31	AB	S		6.7	7.4								
97P02682	31-57	Bt1	S		6.9	7.6				tr				
97P02683	57-87	Bt2	S		7.0	7.6				--				
97P02684	87-109	Bt3	S		7.0	7.7				tr				
97P02685	109-143	Bt / E1	S		7.0	7.7				--				
97P02686	143-174	Bt / E2	S		7.1	7.8				--				
97P02687	174-197	E / Bt	S		7.1	7.7				--				
97P02688	197-223	2Bt / E1	S		7.0	7.7				--				
97P02689	223-252	2Bt / E2	S		6.6	7.3								
97P02690	252-275	2Bt	S		5.6	6.3								

*** Primary Characterization Data ***

Pedon ID: 97LA033003 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Klienpeter Fine-silty, mixed, hyperthermic Glossic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0454

Clay Mineralogy (<.002 mm)

Layer	Depth (cm)	Horz	Fraction	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
				X-Ray					Thermal				Elemental							EGME Retn	Interpretation
						7A2i							SiO_2	Al_2O_3	Fe_2O_3	MgO	CaO	K_2O	Na_2O		
				(- - - - - - - - - peak size - - - - - - - - - -)					(- - - - - - - - - % - - - - - - - - - -)				(- - - - - - - - - - - - - - - - - - - % - - - - - - - - - - - - - - - - - - -)							mg g^{-1}	
97P02682	31-57	Bt1	tcly	VR 3	MI 2	KK 2															
97P02683	57-87	Bt2	tcly	KK 2	VR 2	MI 2															

FRACTION INTERPRETATION:
tcly - Total Clay, <0.002 mm

MINERAL INTERPRETATION:
KK - Kaolinite MI - Mica VR - Vermiculite

RELATIVE PEAK SIZE: 5 Very Large 4 Large 3 Medium 2 Small 1 Very Small 6 No Peaks

*** Primary Characterization Data ***

Pedon ID: 97LA033004 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled as : Satsuma ; Fine-silty, siliceous, hyperthermic Glossic Hapludalf
Revised to :

SSL - Project CP97LA097 LOUISIANA HYPERTHERMIC 1
- Site ID 97LA033004 Lat: 30° 39' 34.00" north Long: 90° 58' 11.00" west MLRA: 134
- Pedon No. 97P0455
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Natural Resources Conservation Service
National Soil Survey Center
Soil Survey Laboratory
Lincoln, Nebraska 68508-3866

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
97P02691	Ap	Ap	0-12				SIL	SI
97P02692	E	E	12-30				SIL	SI
97P02693	Btg	Btg	30-47				SIL	SIL
97P02694	Bt / Eg	Bt/Eg	47-81				SIL	SICL
97P02695	Bt1	Bt1	81-101				SIL	SIL
97P02696	Bt2	Bt2	101-132				SIL	SIL
97P02697	Bt3	Bt3	132-157				SIL	SIL
97P02698	2Bt	2Bt	157-197				L	SIL
97P02699	2C1	2C1	197-225				FSL	L
97P02700	2C2	2C2	225-245				FSL	L
97P02701	2Cr / Bt	2Cr/Bt	47-81				SIL	SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
LE, Whole Soil, Summed to 1m	2	cm/m

Weighted averages based on control section: 30-80 cm

*** Primary Characterization Data ***

Pedon ID: 97LA033004 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Satsuma Fine-silty, siliceous, hyperthermic Glossic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0455

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1- (- - - - - Total - - - - - -) Clay < .002	-2- Silt .002 -.05	-3- Sand .05 -2	-4- (- - Clay - - -) Fine < .0002	-5- CO_3 < .002	-6- (- - - - Silt - - - - -) Fine .002 -.02	-7- Coarse .02 -.05	-8- (- - - - - - - - - - - - Sand - - - - - - - - - - - -) VF .05 -.10	-9- F .10 -.25	-10- M .25 -.50	-11- C .5 -1	-12- VC 1 -2	-13- (Rock Fragments (mm)) (- - - - - - - - Weight - - - - - - - -) 2 -5	-14- 5 -20	-15- 20 -75	-16- .1- 75	-17- >2 mm wt % whole soil
				(- % of <2mm Mineral Soil -)												(- - - - - - - % of <75mm - - - - - -)				
				3A1	3A1	3A1	3A1		3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	3B1	3B1		
97P02691	0-12	Ap	S	9.8	82.1	8.1	5.5		47.2	34.9	2.3	2.9	1.3	0.9	0.7	2	1	--	9	3
97P02692	12-30	E	S	11.4	81.4	7.2	7.4		48.8	32.6	2.1	2.5	1.1	0.8	0.7	4	10	--	18	14
97P02693	30-47	Btg	S	24.2	70.6	5.2	17.2		43.1	27.5	1.6	1.9	0.9	0.6	0.2	tr	--	--	4	tr
97P02694	47-81	Bt / Eg	S	29.8	65.9	4.3	18.4		36.5	29.4	2.0	1.7	0.5	0.1	--	--	--	--	2	--
97P02695	81-101	Bt1	S	25.1	69.9	5.0	14.1		38.1	31.8	2.4	2.1	0.5	tr	--	--	--	--	3	--
97P02696	101-132	Bt2	S	20.8	69.6	9.6	12.5		36.5	33.1	4.8	4.0	0.7	0.1	--	--	--	--	5	--
97P02697	132-157	Bt3	S	17.1	64.6	18.3	10.5		31.7	32.9	9.2	7.5	1.1	0.3	0.2	--	--	--	9	--
97P02698	157-197	2Bt	S	9.8	59.1	31.1	7.1		17.7	41.4	11.7	17.4	2.0	tr	tr	--	--	--	19	--
97P02699	197-225	2C1	S	9.5	43.3	47.2	7.6		17.5	25.8	13.9	29.8	3.5	tr	tr	--	--	--	33	--
97P02700	225-245	2C2	S	11.3	49.4	39.3	7.8		21.4	28.0	14.3	20.3	4.7	--	--	--	--	--	25	--
97P02701	47-81	2Cr / Bt	S	23.5	71.8	4.7			45.8	26.0	1.5	1.8	0.7	0.3	0.4	tr	--	--	3	tr

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa (- - - g cm^{-3} - - -) 4A1d	-2- Oven Dry 4A1h	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa (- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)	-5- 10 kPa	-6- 33 kPa 4B1c	-7- 1500 kPa 4B2a	-8- 1500 kPa Moist	-9- Ratio AD/OD 4B5	-10- WRD Whole Soil cm^3 cm^{-3} 4C1	-11- Aggst Stabl 2-0.5mm %	-12- (- - Ratio/Clay - -) CEC7 8D1	-13- 1500 kPa 8D1
97P02691	0-12	Ap	S	1.32	1.36	0.010			29.9	7.0		1.012	0.30		1.02	0.71
97P02692	12-30	E	S	1.50	1.58	0.016			23.3	6.1		1.010	0.24		0.59	0.54
97P02693	30-47	Btg	S	1.50	1.62	0.026			23.3	12.9		1.021	0.16		0.52	0.53
97P02694	47-81	Bt / Eg	S	1.50	1.60	0.022			24.9	16.3		1.029	0.13		0.55	0.55
97P02695	81-101	Bt1	S	1.49	1.56	0.015			24.7	13.8		1.023	0.16		0.57	0.55
97P02696	101-132	Bt2	S	1.54	1.63	0.019			22.8	11.8		1.017	0.17		0.55	0.57
97P02697	132-157	Bt3	S	1.65	1.74	0.018			19.7	9.3		1.011	0.17		0.46	0.54
97P02698	157-197	2Bt	S	1.80	1.86	0.011			13.5	8.4		1.010	0.09		0.63	0.86
97P02699	197-225	2C1	S	1.69	1.75	0.012			16.4	5.4		1.006	0.19		0.39	0.57
97P02700	225-245	2C2	S	1.73	1.79	0.011			15.9	6.5		1.007	0.16		0.39	0.58
97P02701	47-81	2Cr / Bt	S	1.43	1.50	0.016			25.0	12.3		1.022	0.18		0.53	0.52

*** Primary Characterization Data ***

Pedon ID: 97LA033004 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Satsuma Fine-silty, siliceous, hyperthermic Glossic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0455

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
				pct <0.4mm		(- - - - - - - g cm^{-3} - - - - - - -)			(- % of < 2mm -)							
				4F1	4F										4B1a	
97P02691	0-12	Ap	S	31	6										10.5	
97P02691[1]	0-12		S	31	6											
97P02692	12-30	E	S												10.1	
97P02693	30-47	Btg	S												18.2	
97P02694	47-81	Bt / Eg	S												22.0	
97P02695	81-101	Bt1	S	37	16										19.7	
97P02695[2]	81-101		S	37	16											
97P02696	101-132	Bt2	S												17.5	
97P02697	132-157	Bt3	S												14.0	
97P02698	157-197	2Bt	S												11.6	
97P02699	197-225	2C1	S												7.9	
97P02700	225-245	2C2	S												9.3	
97P02701	47-81	2Cr / Bt	S												17.4	

[1,2] Multiple values present due to instrumentation or analyzed size fraction. See laboratory for more information.

*** Primary Characterization Data ***

Pedon ID: 97LA033004 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Satsuma Fine-silty, siliceous, hyperthermic Glossic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0455

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- (- - - - - Total - - - - -) C	-2- N	-3- S	-4- Org C	-5- C/N Ratio	-6- (- - - Dith-Cit Ext - - -) Fe	-7- Al	-8- Mn	-9- (- - - - - - Ammonium Oxalate Extraction - - - - - -) Al+½Fe	-10- ODOE	-11- Fe	-12- Al	-13- Si	-14- Mn	-15- (- - - Na Pyro-Phosphate - - -) C	-16- Fe	-17- Al	-18- Mn
				(- - - - - - % of <2 mm - - - - - -)					(- % of < 2mm - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
					6B4a		6A1c														
97P02691	0-12	Ap	S		0.149		1.79	12													
97P02692	12-30	E	S		0.035		0.21	6													
97P02693	30-47	Btg	S		0.031		0.15	5													

97P02694	47-81	Bt / Eg	S	0.051	0.14	3
97P02695	81-101	Bt1	S	0.043	0.07	2
97P02696	101-132	Bt2	S		0.08	
97P02697	132-157	Bt3	S		0.02	
97P02698	157-197	2Bt	S		0.02	
97P02699	197-225	2C1	S		0.02	
97P02700	225-245	2C2	S		0.02	
97P02701	47-81	2Cr / Bt	S		0.16	

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- Sum Bases	-6- Acid-ity	-7- Extr Al	-8- KCl Mn	-9- CEC8 Sum Cats	-10- CEC7 NH_4 OAC	-11- ECEC Bases +Al	-12- Al Sat	-13- Base Sum	-14- Base NH_4OAC
				(- - - - - - NH_4OAC Extractable Bases - - - - -)												(- - - - Base - - - -) (- Saturation -)	
				(- - - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)			(- - - - - - - - % - - - - - - - -)		
				6N2e	6O2d	6P2b	6Q2b		6H5a	6G9c	6D3b	5A3a	5A8b	5A3b	5G1	5C3	5C1
97P02691	0-12	Ap	S	5.8	1.1	0.5	0.2	7.6	6.1			13.7	10.0			55	76
97P02692	12-30	E	S	3.8	1.1	1.2	0.2	6.3	2.8			9.1	6.7			69	94
97P02693	30-47	Btg	S	2.8	1.7	2.0	0.3	6.8	8.4	5.1	3.1	15.2	12.5	11.9	43	45	54
97P02694	47-81	Bt / Eg	S	3.4	3.1	3.9	0.3	10.7	11.0	6.3	5.1	21.7	16.3	17.0	37	49	66
97P02695	81-101	Bt1	S	3.5	3.1	4.4	0.2	11.2	7.4	2.1	5.0	18.6	14.2	13.3	16	60	79
97P02696	101-132	Bt2	S	3.6	2.6	4.1	0.3	10.6	5.0	0.7	7.4	15.6	11.4	11.3	6	68	93
97P02697	132-157	Bt3	S	3.2*	1.9	3.0	0.2	8.3	2.8	0.2	2.5	11.1	7.9	8.5	2	75	100
97P02698	157-197	2Bt	S	3.1*	1.6	3.3	0.3	8.3	2.4	0.1	0.7	10.7	6.2	8.4	1	78	100
97P02699	197-225	2C1	S	2.7*	0.9	2.1	0.3	6.0	2.1	0.1	0.2	8.1	3.7	6.1	2	74	100
97P02700	225-245	2C2	S	2.8*	1.2	1.7	0.3	6.0	1.9	0.1	0.2	7.9	4.4	6.1	2	76	100
97P02701	47-81	2Cr / Bt	S	3.0	1.7	3.3	0.4	8.4	10.2	6.7	3.9	18.6	12.4	15.1	44	45	68

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

*** Primary Characterization Data ***

Pedon ID: 97LA033004 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Satsuma Fine-silty, siliceous, hyperthermic Glossic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0455

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- CO_3	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O	-16- Total Salts	-17- Elec Cond	-18- Pred Elec Cond	-19- Exch Na %	-20- SAR
				(- - - - - Water Extracted From Saturated Paste - - - - - -)																			
				(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)									(- - - - % - - - -)	(- - dS m^{-1} - -)			
																	6M1d					5D2	
97P02691	0-12	Ap	S																			5	
97P02692	12-30	E	S														--					18	
97P02693	30-47	Btg	S														--					16	
97P02694	47-81	Bt / Eg	S														--					24	
97P02695	81-101	Bt1	S														2.1					31	
97P02696	101-132	Bt2	S																			36	
97P02697	132-157	Bt3	S																			38	
97P02698	157-197	2Bt	S																			53	

97P02699	197-225	2C1	S	57
97P02700	225-245	2C2	S	39
97P02701	47-81	2Cr / Bt	S	27

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2 4C1a2a	-3- H_2O 1:1 4C1a2a	-4- Sat Paste	-5- Sulf	-6- NaF	-7- Carbonate As $CaCO_3$ <2mm	-8- Carbonate As $CaCO_3$ <20mm	-9- Gypsum As $CaSO_4$*$2H_2O$ <2mm	-10- Gypsum As $CaSO_4$*$2H_2O$ <20mm	-11- Resist ohms cm^{-1}
				(- - - - - - - - - - - - - - - - - - pH - - - - - - - - - - - - - - - - - -)						(- - Carbonate - -)		(- - Gypsum - - -)		
										(- - - - - - - - - - - - % - - - - - - - - - - - -)				
97P02691	0-12	Ap	S		5.4	6.0								
97P02692	12-30	E	S		6.2	7.1								
97P02693	30-47	Btg	S		4.1	5.6								
97P02694	47-81	Bt / Eg	S		4.0	5.2								
97P02695	81-101	Bt1	S		4.3	5.3								
97P02696	101-132	Bt2	S		4.6	5.8								
97P02697	132-157	Bt3	S		4.9	6.2								
97P02698	157-197	2Bt	S		5.1	6.5								
97P02699	197-225	2C1	S		4.9	6.2								
97P02700	225-245	2C2	S		4.9	6.2								
97P02701	47-81	2Cr / Bt	S		4.0	5.1								

*** Primary Characterization Data ***

Pedon ID: 97LA033004 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Satsuma Fine-silty, siliceous, hyperthermic Glossic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0455

Clay Mineralogy (<.002 mm)

Layer	Depth (cm)	Horz	Fraction	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
						X-Ray					Thermal					Elemental				EGME	Interpretation
													SiO_2	Al_2O_3	Fe_2O_3	MgO	CaO	K_2O	Na_2O	Retn	
						7A2i															
				(- - - - - - - - - peak size - - - - - - - - - -)					(- - - - - - - - - % - - - - - - - - - -)				(- - - - - - - - - - - - - - - - - - - % - - - - - - - - - - - - - - - - - - -)							mg g^{-1}	
97P02693	30-47	Btg	tcly	VR 3	KK 3	GI 1	MI 1														
97P02694	47-81	Bt / Eg	tcly	KK 3	MT 2	VR 2	MI 2														
97P02695	81-101	Bt1	tcly	KK 3	MT 2	VR 2	MI 2														

FRACTION INTERPRETATION:
tcly - Total Clay, <0.002 mm

MINERAL INTERPRETATION:
GI - Gibbsite KK - Kaolinite MI - Mica MT - Montmorillonite VR - Vermiculite

RELATIVE PEAK SIZE: 5 Very Large 4 Large 3 Medium 2 Small 1 Very Small 6 No Peaks

*** Primary Characterization Data ***

Pedon ID: 97LA033004 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Satsuma Fine-silty, siliceous, hyperthermic Glossic Hapludalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0455

Sand - Silt Mineralogy (2.0-0.002 mm)

Layer	Depth (cm)	Horz	Fraction	-1- -2- -3- -4- -5- X-Ray (- - - - - - - - peak size - - - - - - - - -)	-6- -7- -8- -9- Thermal (- - - - - - - - % - - - - - - - - - -)	-10- Tot Re (- - - - - - - - - - - - - - - - - - - -	-11- -12- -13- -14- -15- -16- Optical Grain Count 7B1a % - - - - - - - - - - - - - - - - - - -)	-17- EGME Retn mg g^{-1}	-18- Interpretation
97P02693	30-47	Btg	csi			82	QZ 72 FK 14 PO 5 CD 2 PR 2 OP 2 FP 2 ZR 1 BT 1 HN tr MS tr FE tr BY tr GS tr EP tr CT tr		
97P02694	47-81	Bt / Eg	csi			77	QZ 71 FK 15 CD 3 MS 2 FE 2 PR 2 FP 2 BT 1 CM 1 AR 1 OP 1 BY tr EP tr PO tr HN tr TM tr ZR tr GN tr GS tr		
97P02695	81-101	Bt1	csi			71	QZ 64 FK 21 CD 5 FP 3 MS 2 PR 1 OP 1 CM 1 BY 1 BT tr FE tr GN tr EP tr AR tr HN tr PO tr TM tr GY tr RU tr ZR tr AN tr GS tr		

FRACTION INTERPRETATION:
csi - Coarse Silt, 0.02-0.05 mm

MINERAL INTERPRETATION:

AN - Andalusite	AR - Weatherable Aggregates	BT - Biotite	BY - Beryl	CD - Chert (Chalcedony
CM - Chlorite-Mica	CT - Cassiterite	EP - Epidote	FE - Iron Oxides (Goethite	FK - Potassium Feldspar
FP - Plagioclase Feldspar	GN - Garnet	GS - Glass	GY - Gypsum	HN - Hornblende
MS - Muscovite	OP - Opaques	PO - Plant Opal	PR - Pyroxene	QZ - Quartz
RU - Rutile	TM - Tourmaline	ZR - Zircon		

*** Primary Characterization Data ***

Pedon ID: 97LA033005 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled as : Bonn ; Fine-silty, mixed, hyperthermic Vermic Natraqualf
Revised to correlated on Mar 15, 2007 : Bonn ; Fine-silty, mixed, superactive, thermic Vermic Natraqualf

SSL - Project CP97LA097 LOUISIANA HYPERTHERMIC 1
- Site ID 97LA033005 Lat: 30° 41' 49.45" north Long: 90° 56' 48.78" west NAD83 MLRA: 134
- Pedon No. 97P0456
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Natural Resources Conservation Service
National Soil Survey Center
Soil Survey Laboratory
Lincoln, Nebraska 68508-3866

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
97P02702	A	A	0-12				SIL	SI
97P02703	A1	A1	12-29				SIL	SIL
97P02704	A2	A2	29-57				SIL	SIL
97P02705	A3	A3	57-91				SIL	SIL
97P02706	A3	A3	91-110				SIL	SIL
97P02707	B / E	B/E	110-144				SIL	SIL
97P02708	E / B	E/B	144-169				SIL	SIL
97P02709	2Bt1	2Bt1	169-197				SIL	SIL
97P02710	3Bt2	3Bt2	197-228				SIL	SIL
97P02711	3Bt3	3Bt3	228-260				SIL	SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
Weighted Particles, 0.1-75mm, 75 mm Base	3	% wt
Clay, total, Weighted Average	25	% wt
Clay, carbonate free, Weighted Average	25	% wt
CEC Activity, CEC7/Clay, Weighted Average	0.98	(NA)
LE, Whole Soil, Summed to 1m	3	cm/m
Volume, >2mm, Weighted Average	0	% vol

Weighted averages based on control section: 57-97 cm

*** Primary Characterization Data ***

Pedon ID: 97LA033005 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Bonn Fine-silty, mixed, hyperthermic Vermic Natraqualf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0456

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1- Clay < .002	-2- Silt .002 -.05	-3- Sand .05 -2	-4- Fine < .0002	-5- CO_3 < .002	-6- Fine .002 -.02	-7- Coarse .02 -.05	-8- VF .05 -.10	-9- F .10 -.25	-10- M .25 -.50	-11- C .5 -1	-12- VC 1 -2	-13- 2 -5	-14- 5 -20	-15- 20 -75	-16- .1-75	-17- >2 mm wt % whole soil
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - -)					(Rock Fragments (mm))				
				(- % of <2mm Mineral Soil -)												(- - - - - - - Weight - - - - - - - -)				
																(- - - - - - - % of <75mm - - - - - -)				
				3A1	3A1	3A1	3A1		3A1	3A1	3A1	3A1	3A1	3A1	3A1	3B1	3B1	3B1		
97P02702	0-12	A	S	6.5	84.9	8.6	4.3		48.8	36.1	2.7	3.7	1.9	0.3	tr	--	--	--	6	--
97P02703	12-29	A1	S	14.7	77.5	7.8	9.5		26.0	51.5	2.6	3.4	1.6	0.2	tr	--	--	--	5	--
97P02704	29-57	A2	S	12.2	82.3	5.5	9.5		46.4	35.9	2.0	2.3	1.1	0.1	--	--	--	14	17	14
97P02705	57-91	A3	S	25.4	70.3	4.3	16.6		42.6	27.7	1.6	1.9	0.7	0.1	tr	--	--	--	3	--
97P02706	91-110	A3	S	22.2	72.3	5.5	11.4		43.8	28.5	1.8	2.2	1.0	0.3	0.2	--	--	--	4	--
97P02707	110-144	B / E	S	19.1	74.5	6.4	10.2		45.9	28.6	2.1	2.5	1.3	0.3	0.2	--	--	--	4	--
97P02708	144-169	E / B	S	17.9	75.3	6.8	10.8		46.3	29.0	2.3	2.8	1.3	0.3	0.1	--	--	--	5	--
97P02709	169-197	2Bt1	S	16.8	75.8	7.4	10.5		48.3	27.5	2.7	3.0	1.3	0.3	0.1	--	--	--	5	--
97P02710	197-228	3Bt2	S	18.5	73.4	8.1	13.4		47.9	25.5	3.0	3.5	1.5	tr	0.1	--	--	--	5	--
97P02711	228-260	3Bt3	S	23.9	66.7	9.4	14.9		42.7	24.0	3.3	4.2	1.7	0.1	0.1	--	--	--	6	--

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa (- - - g cm^{-3} - - -) 4A1d	-2- Oven Dry 4A1h	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa (- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)	-5- 10 kPa	-6- 33 kPa 4B1c	-7- 1500 kPa 4B2a	-8- 1500 kPa Ratio Moist	-9- AD/OD 4B5	-10- WRD Whole Soil cm^3 cm^{-3} 4C1	-11- Aggst Stabl 2-0.5mm %	-12- (- - Ratio/Clay - -) CEC7 8D1	-13- 1500 kPa 8D1
97P02702	0-12	A	S	1.17	1.25	0.022			39.5	6.4		1.012	0.39		1.69	0.98
97P02703	12-29	A1	S	1.61	1.64	0.006			17.5	7.0		1.012	0.17		0.60	0.48
97P02704	29-57	A2	S	1.54	1.61	0.014			22.7	10.3		1.020	0.17		1.11	0.84
97P02705	57-91	A3	S	1.54	1.80	0.053			23.1	13.7		1.027	0.14		0.97	0.54
97P02706	91-110	A3	S	1.57	1.73	0.033			23.9	11.9		1.025	0.19		1.04	0.54
97P02707	110-144	B / E	S	1.62	1.79	0.034			22.5	10.1		1.022	0.20		1.04	0.53
97P02708	144-169	E / B	S	1.58	1.74	0.033			24.2	9.4		1.020	0.23		0.98	0.53
97P02709	169-197	2Bt1	S	1.66	1.74	0.016			20.6	8.7		1.017	0.20		0.89	0.52
97P02710	197-228	3Bt2	S	1.71	1.81	0.019			19.7	9.5		1.018	0.17		0.75	0.51
97P02711	228-260	3Bt3	S	1.74	1.82	0.015			18.8	12.3		1.023	0.11		0.70	0.51

*** Primary Characterization Data ***

Pedon ID: 97LA033005 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Bonn Fine-silty, mixed, hyperthermic Vermic Natraqualf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0456

Water Content

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-
				(- - Atterberg - -)		(- - - - - Bulk Density - - - - -)			(- Water Content -)							
				(- - - Limits - - -)		Field	Recon	Recon	Field	Recon	(- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - - -)					
				LL	PI		33	Oven		33	6	10	33	100	200	500
	Depth						kPa	Dry		kPa	kPa	kPa	kPa	kPa	kPa	kPa
Layer	(cm)	Horz	Prep	pct <0.4mm		(- - - - - - - - g cm^{-3} - - - - - - -)			(- % of < 2mm -)							
				4F1	4F										4B1a	
97P02702	0-12	A	S	32	5										9.8	
97P02702[1]	0-12		S	32	5											
97P02703	12-29	A1	S												10.5	
97P02704	29-57	A2	S												15.2	
97P02705	57-91	A3	S												21.1	
97P02706	91-110	A3	S	34	16										18.7	
97P02706[2]	91-110		S	34	16											
97P02707	110-144	B / E	S												17.3	
97P02708	144-169	E / B	S												15.1	
97P02709	169-197	2Bt1	S												15.8	
97P02710	197-228	3Bt2	S												15.4	
97P02711	228-260	3Bt3	S												19.9	

[1,2] Multiple values present due to instrumentation or analyzed size fraction. See laboratory for more information.

*** Primary Characterization Data ***

Pedon ID: 97LA033005 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Bonn Fine-silty, mixed, hyperthermic Vermic Natraqualf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0456

Carbon & Extractions

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
				(- - - - - Total - - - - -)			Org	C/N	(- - - Dith-Cit Ext - - -)			(- - - - - - Ammonium Oxalate Extraction - - - - - -)						(- - - Na Pyro-Phosphate - - -)			
	Depth			C	N	S	C	Ratio	Fe	Al	Mn	Al+½Fe	ODOE	Fe	Al	Si	Mn	C	Fe	Al	Mn
Layer	(cm)	Horz	Prep	(- - - - - - % of <2 mm - - - - - -)					(- % of < 2mm - - - - - - - - - - - - - - - - - - -)								mg kg^{-1}	(- - - - - - % of < 2mm - - - - -)			
					6B4a		6A1c														
97P02702	0-12	A	S		0.165		3.17	19													
97P02703	12-29	A1	S		0.057		0.92	16													
97P02704	29-57	A2	S		0.029		0.11	4													
97P02705	57-91	A3	S		0.010		0.07	7													

97P02706	91-110	A3	S	0.030	0.03	1
97P02707	110-144	B / E	S		0.03	
97P02708	144-169	E / B	S		0.04	
97P02709	169-197	2Bt1	S		0.03	
97P02710	197-228	3Bt2	S		0.03	
97P02711	228-260	3Bt3	S		0.01	

CEC & Bases

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-
				(- - - - - - NH_4OAC Extractable Bases - - - - -)								CEC8	CEC7	ECEC		(- - - - Base - - - -)	
								Sum	Acid-	Extr	KCl	Sum	NH_4	Bases	Al	(- Saturation -)	
	Depth			Ca	Mg	Na	K	Bases	ity	Al	Mn	Cats	OAC	+Al	Sat	Sum	NH_4OAC
Layer	(cm)	Horz	Prep	(- - - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)			(- - - - - - - - % - - - - - - - -)		
				6N2e	6O2d	6P2b	6Q2b		6H5a	6G9c	6D3b	5A3a	5A8b	5A3b	5G1	5C3	5C1
97P02702	0-12	A	S	4.9	0.8	1.0	0.3	7.0	10.5	1.7	6.4	17.5	11.0	8.7	20	40	64
97P02703	12-29	A1	S	2.8	1.3	1.7	0.2	6.0	5.9	3.1	0.1	11.9	8.8	9.1	34	50	68
97P02704	29-57	A2	S	5.0	3.4	4.6	0.3	13.3	3.0			16.3	13.6			82	98
97P02705	57-91	A3	S	10.5*	6.8	9.3	0.3	26.9	2.4			29.3	24.6			92	100
97P02706	91-110	A3	S	8.5*	6.4	8.9	0.4	24.2	1.9			26.1	23.1			93	100
97P02707	110-144	B / E	S	7.1*	5.5	7.6	0.2	20.4	1.6			22.0	19.8			93	100
97P02708	144-169	E / B	S	8.2*	4.9	6.3	0.2	19.6	0.7			20.3	17.6			97	100
97P02709	169-197	2Bt1	S	4.9*	4.2	6.0	0.2	15.3	1.2			16.5	15.0			93	100
97P02710	197-228	3Bt2	S	6.3*	4.0	4.7	0.2	15.2	1.9			17.1	13.9			89	100
97P02711	228-260	3Bt3	S	6.0	5.2	4.6	0.3	16.1	2.1			18.2	16.7			88	96

*Extractable Ca may contain Ca from calcium carbonate or gypsum., CEC7 base saturation set to 100.

*** Primary Characterization Data ***

Pedon ID: 97LA033005 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Bonn Fine-silty, mixed, hyperthermic Vermic Natraqualf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0456

Salt

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-	-19-	-20-
				(- Water Extracted From Saturated Paste -)																			
																			Total	Elec	Pred Elec	Exch	
	Depth			Ca	Mg	Na	K	CO_3	HCO_3	F	Cl	PO_4	Br	OAC	SO_4	NO_2	NO_3	H_2O	Salts	Cond	Cond	Na	SAR
Layer	(cm)	Horz	Prep	(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)										(- - - - % - - - -)		(- - dS m^{-1} - -)		%	
				6N1b	6O1b	6P1b	6Q1b	6I1b	6J1b	6U1b	6K1d				6L1d	6W1b	6M1d	8A	8D5	8A3a	8I	5D2	5E
97P02702	0-12	A	S																		0.17	9	
97P02703	12-29	A1	S																		0.14	19	
97P02704	29-57	A2	S	1.7	0.7	14.6	0.2	--	1.0	tr	14.8				3.4	tr	--	48.2	0.1	1.85	0.66	29	13
97P02705	57-91	A3	S	0.7	1.0	24.1	0.2	--	0.8	tr	22.9				6.2	--	--	60.6	0.1	2.96	1.12	32	26
97P02706	91-110	A3	S	1.0	0.7	14.0	0.2	--	0.5	tr	14.4				3.0	tr	--	59.7	0.1	1.76	0.94	35	15
97P02707	110-144	B / E	S	0.9	0.5	16.5	0.1	--	0.5	tr	17.2				3.3	tr	--	57.6	0.1	1.99	0.75	34	20
97P02708	144-169	E / B	S	1.0	0.4	14.7	0.2	--	0.8	--	15.6				2.5	tr	--	56.3	0.1	1.83	0.70	31	18
97P02709	169-197	2Bt1	S	0.9	0.6	9.5	0.3	--	0.8	--	13.5				1.9	tr	--	51.9	0.1	1.63	0.60	37	11
97P02710	197-228	3Bt2	S	--	0.2	8.3	0.2	--	0.5	0.5	9.2				1.3	tr	tr	50.7	tr	1.19	0.49	31	26
97P02711	228-260	3Bt3	S	0.3	0.2	8.9	--	--	0.5	tr	8.2				0.9	tr	--	50.3	tr	1.14	0.35	25	18

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2 4C1a2a	-3- H_2O 1:1 4C1a2a	-4- Sat Paste 8C1b	-5- Sulf	-6- NaF	-7- Carbonate As $CaCO_3$ <2mm	-8- Carbonate As $CaCO_3$ <20mm	-9- Gypsum As $CaSO_4$*$2H_2O$ <2mm 6F1a	-10- Gypsum As $CaSO_4$*$2H_2O$ <20mm	-11- Resist ohms cm^{-1}
				(- - - - - - - - - - - - - - - - - - pH					- - - - - - - - - - - - - - - - - -)	(- - Carbonate - -)		(- - Gypsum - - -)		
										(- - - - - - - - - - - -		%	- - - - - - - - - - - -)	
97P02702	0-12	A	S		4.2	4.7								
97P02703	12-29	A1	S		4.3	5.3								
97P02704	29-57	A2	S		5.4	6.0	5.7					--		
97P02705	57-91	A3	S		6.4	6.7	6.3					--		
97P02706	91-110	A3	S		6.6	7.1	6.8					--		
97P02707	110-144	B / E	S		6.7	7.3	6.9					--		
97P02708	144-169	E / B	S		6.7	7.5	7.0					--		
97P02709	169-197	2Bt1	S		6.6	7.4	6.9					--		
97P02710	197-228	3Bt2	S		6.5	7.3	6.8							
97P02711	228-260	3Bt3	S		6.2	7.2	6.6							

*** Primary Characterization Data ***

Pedon ID: 97LA033005 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Bonn Fine-silty, mixed, hyperthermic Vermic Natraqualf

USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0456

Major Elements

Layer	Depth (cm)	Horz	Prep	-1- Al mg/kg 4H1b	-2- Ca mg/kg 4H1b	-3- Fe mg/kg 4H1b	-4- K mg/kg 4H1b	-5- Mg mg/kg 4H1b	-6- Mn mg/kg 4H1b	-7- Na mg/kg 4H1b	-8- P mg/kg 4H1b	-9- Si mg/kg 4H1b	-10- Sr mg/kg	-11- Ti mg/kg 4H1b	-12- Zr mg/kg 4H1b
97P02708	144-169	E / B	S	12982	3193	4518	4008	1203	242	6331	603	606636		619	15

*** Primary Characterization Data ***

Pedon ID: 97LA033005 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM

Sampled As : Bonn Fine-silty, mixed, hyperthermic Vermic Natraqualf

USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 97P0456

Clay Mineralogy (<.002 mm)

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
						X-Ray					Thermal					Elemental				EGME	Inter
													SiO_2	Al_2O_3	Fe_2O_3	MgO	CaO	K_2O	Na_2O	Retn	preta
	Depth		Fract			7A2i															tion
Layer	(cm)	Horz	ion	(- - - - - - - - -		peak size	- - - - - - - - - -)		(- - - - - - - - -		%	- - - - - - - - - -)	(- - - - - - - - - - - - - - - - - - -			%	- - - - - - - - - - - - - - - - - - -)			mg g^{-1}	
97P02706	91-110	A3	tcly	MT 4	KK 2																
97P02707	110-144	B / E	tcly	MT 4	KK 3																

FRACTION INTERPRETATION:

tcly - Total Clay, <0.002 mm

MINERAL INTERPRETATION:

KK - Kaolinite MT - Montmorillonite

RELATIVE PEAK SIZE: 5 Very Large 4 Large 3 Medium 2 Small 1 Very Small 6 No Peaks

*** Primary Characterization Data ***

Pedon ID: S04LA-033-001 — (East Baton Rouge Parish, Louisiana) — Print Date: Aug 10 2011 4:00PM

Sampled as : Scotlandville ; Fine-silty, mixed, active, thermic Oxyaquic Glossudalf
Revised to :

SSL - Project C2004USLA166 East Baton Rouge & East Feliciana Parish
- Site ID S04LA-033-001 Lat: 30° 35' 29.31" north Long: 91° 12' 8.73" west MLRA: 134
- Pedon No. 04N0884
- General Methods 1B1A, 2A1, 2B

United States Department of Agriculture
Natural Resources Conservation Service
National Soil Survey Center
Soil Survey Laboratory
Lincoln, Nebraska 68508-3866

Layer	Horizon	Orig Hzn	Depth (cm)	Field Label 1	Field Label 2	Field Label 3	Field Texture	Lab Texture
04N05017	Ap		0-20	S04LA-033-001-1			SI	SI
04N05018	E		20-31	S04LA-033-001-2			SI	SIL
04N05019	Bt1		31-54	S04LA-033-001-3			SIL	SICL
04N05020	Bt2		54-84	S04LA-033-001-4			SIL	SIL
04N05021	Bt/E1		84-120	S04LA-033-001-5			SIL	SIL
04N05022	Bt/E2		120-139	S04LA-033-001-6			SIL	SIL
04N05023	Bt/E3		139-183	S04LA-033-001-7			SIL	SIL
04N05024	2BC		183-210	S04LA-033-001-8			SI	SIL

Pedon Calculations

Calculation Name	Result	Units of Measure
LE, Whole Soil, Summed to 1m	2	cm/m

Weighted averages based on control section: 31-81 cm

PSDA & Rock Fragments

Layer	Depth (cm)	Horz	Prep	-1- Clay < .002	-2- Silt .002 -.05	-3- Sand .05 -2	-4- Fine < .0002	-5- CO_3 < .002	-6- Fine .002 -.02	-7- Coarse .02 -.05	-8- VF .05 -.10	-9- F .10 -.25	-10- M .25 -.50	-11- C .5 -1	-12- VC 1 -2	-13- 2 -5	-14- 5 -20	-15- 20 -75	-16- .1-75	-17- >2 mm wt % whole soil
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - - -)					(Rock Fragments (mm))				
				(- % of <2mm Mineral Soil -)												(- - - - - - - Weight - - - - - - - -)				
				3A1a1a			3A1a1a		3A1a1a		3A1a1a	3A1a1a	3A1a1a	3A1a1a	3A1a1a	(- - - - - - - % of <75mm - - - - - -)				
04N05017	0-20	Ap	S	9.7	88.5	1.8	5.8		34.5	54.0	1.0	0.3	0.2	0.1	0.2	--	--	--	1	--
04N05018	20-31	E	S	15.9	83.0	1.1	10.0		36.9	46.1	0.9	0.1	0.1	tr	--	--	--	--	tr	--
04N05019	31-54	Bt1	S	29.6	69.7	0.7	18.0		35.1	34.6	0.6	0.1	tr	tr	--	--	--	--	tr	--
04N05020	54-84	Bt2	S	26.0	73.5	0.5	17.8		38.8	34.7	0.4	0.1	tr	tr	tr	--	--	--	tr	--
04N05021	84-120	Bt/E1	S	22.0	77.4	0.6	11.5		41.1	36.3	0.5	0.1	tr	tr	tr	--	--	--	tr	--
04N05022	120-139	Bt/E2	S	19.4	79.8	0.8	11.0		39.2	40.6	0.7	0.1	tr	tr	--	--	--	--	tr	--
04N05023	139-183	Bt/E3	S	18.2	80.6	1.2	12.4		38.5	42.1	0.9	0.2	0.1	tr	--	--	--	--	tr	--
04N05024	183-210	2BC	S	17.5	78.5	4.0	14.9		35.8	42.7	1.8	0.7	0.5	0.8	0.2	1	--	--	3	1

*** Primary Characterization Data ***

Pedon ID: S04LA-033-001 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Scotlandville Fine-silty, mixed, active, thermic Oxyaquic Glossudalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 04N0884

Water Dispersible PSDA

Layer	Depth (cm)	Horz	Prep	-1- Clay < .002	-2- Silt .002 -.05	-3- Sand .05 -2	-4- F < .0002	-5- CO_3 < .002	-6- F .002 -.02	-7- C .02 -.05	-8- VF .05 -.10	-9- F .10 -.25	-10- M .25 -.50	-11- C .5 -1	-12- VC 1 -2
				(- - - - - Total - - - - - -)			(- - Clay - - -)		(- - - - Silt - - - - -)		(- - - - - - - - - - - - Sand - - - - - - - - - - - -)				
				(- Water Dispersible -)											
				(- % of <2mm -)											
				3A1a6a					3A1a6a		3A1a6a	3A1a6a	3A1a6a	3A1a6a	3A1a6a
04N05017	0-20	Ap	S	2.1	92.7	5.2			33.9	58.8	3.1	1.2	0.7	0.2	tr

Bulk Density & Moisture

Layer	Depth (cm)	Horz	Prep	-1- (Bulk Density) 33 kPa	-2- Oven Dry	-3- Cole Whole Soil	-4- (- - - - - - - - - - - Water Content - - - - - - - - - - -) 6 kPa	-5- 10 kPa	-6- 33 kPa	-7- 1500 kPa	-8- 1500 kPa Moist	-9- Ratio AD/OD	-10- WRD Whole Soil	-11- Aggst Stabl 2-0.5mm	-12- (- - Ratio/Clay - -) CEC7	-13- 1500 kPa
				(- - - g cm^{-3} - - -)			(- - - - - - - - - - - - % of < 2mm - - - - - - - - - - - -)						cm^3 cm^{-3}	%		
				DbWR1	DbWR1				DbWR1	3C2a1a		3D1		3F1a1a		
04N05017	0-20	Ap	S	1.31	1.34	0.008			30.6	5.1		1.012	0.33	63	0.56	0.53
04N05018	20-31	E	S	1.47	1.52	0.011			22.6	6.6		1.016	0.24		0.39	0.42
04N05019	31-54	Bt1	S	1.43	1.56	0.029			25.9	11.8		1.033	0.20		0.40	0.40
04N05020	54-84	Bt2	S	1.45	1.55	0.022			26.3	11.5		1.030	0.21		0.43	0.44
04N05021	84-120	Bt/E1	S	1.47	1.56	0.020			25.8	9.8		1.026	0.24		0.45	0.45
04N05022	120-139	Bt/E2	S	1.49	1.57	0.018			23.7	8.9		1.023	0.22		0.47	0.46
04N05023	139-183	Bt/E3	S	1.48	1.55	0.016			23.6	8.5		1.021	0.22		0.51	0.47
04N05024	183-210	2BC	S	1.53	1.61	0.017			21.2	8.1		1.019	0.20		0.44	0.46

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USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 04N0884

Water Content

Layer	Depth (cm)	Horz	Prep	-1- (- - Atterberg - -) (- - - Limits - - -) LL	-2- PI	-3- (- - - - - Bulk Density - - - - -) Field	-4- Recon 33 kPa	-5- Recon Oven Dry	-6- (- Water Content -) Field	-7- Recon 33 kPa	-8- (- - - - - - - - - - - - - - Sieved Samples - - - - - - - - - - - - -) 6 kPa	-9- 10 kPa	-10- 33 kPa	-11- 100 kPa	-12- 200 kPa	-13- 500 kPa
				pct <0.4mm		(- - - - - - - g cm^{-3} - - - - - - -)			(- % of < 2mm -)							
															3C1e1a	
04N05017	0-20	Ap	S												8.0	
04N05018	20-31	E	S												10.7	
04N05019	31-54	Bt1	S												17.8	
04N05020	54-84	Bt2	S												17.4	
04N05021	84-120	Bt/E1	S												15.1	
04N05022	120-139	Bt/E2	S												14.6	
04N05023	139-183	Bt/E3	S												12.9	
04N05024	183-210	2BC	S												11.7	

Carbon & Extractions

Layer	Depth (cm)	Horz	Prep	-1- (- - - - - Total - - - - -) C (- - - - - - % of <2 mm - - - - - -) 4H2a	-2- N 4H2a	-3- S 4H2a	-4- Org C	-5- C/N Ratio	-6- (- - - Dith-Cit Ext - - -) Fe (- % of < 2mm -) 4G1	-7- Al 4G1	-8- Mn 4G1	-9- (- - - - - - Ammonium Oxalate Extraction - - - - - -) Al+½Fe	-10- ODOE 4G2a	-11- Fe 4G2a	-12- Al 4G2a	-13- Si 4G2a	-14- Mn mg kg^{-1} 4G2a	-15- (- - - Na Pyro-Phosphate - - -) C (- - - - - - % of < 2mm - - - - -)	-16- Fe 4G3	-17- Al 4G3	-18- Mn 4G3
04N05017	0-20	Ap	S	1.01	0.10	0.01		10	0.7	0.1	0.1										
04N05018	20-31	E	S	0.38	0.04	0.01		10	1.0	0.1	0.1										
04N05019	31-54	Bt1	S	0.41	0.06	0.01		7	1.9	0.1	0.1	0.43	0.04	0.43	0.21	0.04	411.7		0.1	0.1	--
04N05020	54-84	Bt2	S	0.23	0.03	0.01		8	1.8	0.1	0.1										
04N05021	84-120	Bt/E1	S	0.16	0.03	tr		6	1.7	0.1	tr										
04N05022	120-139	Bt/E2	S	0.11	0.02	0.01		5	1.5	0.1	tr										
04N05023	139-183	Bt/E3	S	0.09	0.01	0.01		9	1.3	0.1	tr										
04N05024	183-210	2BC	S	0.07	tr	tr		37	1.2	0.1	tr										

*** Primary Characterization Data ***

Pedon ID: S04LA-033-001 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Scotlandville Fine-silty, mixed, active, thermic Oxyaquic Glossudalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 04N0884

CEC & Bases

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- Sum Bases	-6- Acid-ity	-7- Extr Al	-8- KCl Mn	-9- CEC8 Sum Cats	-10- CEC7 NH_4 OAC	-11- ECEC Bases +Al	-12- Al Sat	-13- Base Sum	-14- Base NH_4OAC
				(- - - - - - NH_4OAC Extractable Bases - - - - -)								CEC8	CEC7	ECEC		(- - - - Base - - - -)	
																(- Saturation -)	
				(- - - - - - - - - - - - - - - - - cmol(+) kg^{-1} - - - - - - - - - - - - - - - - - - -)							mg kg^{-1}	(- - - - cmol(+) kg^{-1} - - -)			(- - - - - - - - % - - - - - - - -)		
				4B1a1a	4B1a1a	4B1a1a	4B1a1a		4B2b1a1	4B3a1a	4B3a1a		4B1a1a				
04N05017	0-20	Ap	S	0.9	0.2	--	0.1	1.2	14.3	1.5	9.5	15.5	5.4	2.7	56	8	22
04N05018	20-31	E	S	2.9	0.4	--	0.1	3.4	5.7	0.9	3.0	9.1	6.2	4.3	21	37	55
04N05019	31-54	Bt1	S	5.2	1.9	tr	0.3	7.4	10.7	1.5	1.2	18.1	11.8	8.9	17	41	63
04N05020	54-84	Bt2	S	3.6	2.9	0.1	0.3	6.9	8.7	1.1	0.9	15.6	11.2	8.0	14	44	62
04N05021	84-120	Bt/E1	S	2.8	2.8	0.1	0.2	5.9	7.5	1.0	0.5	13.4	9.8	6.9	14	44	60
04N05022	120-139	Bt/E2	S	2.2	2.4	0.2	0.2	5.0	6.9	1.6	0.8	11.9	9.2	6.6	24	42	54
04N05023	139-183	Bt/E3	S	2.4	2.4	0.6	0.2	5.6	7.1	1.4	0.7	12.7	9.2	7.0	20	44	61
04N05024	183-210	2BC	S	2.2	2.0	0.2	0.1	4.5	5.4	1.0	0.6	9.9	7.7	5.5	18	45	58

Salt

Layer	Depth (cm)	Horz	Prep	-1- Ca	-2- Mg	-3- Na	-4- K	-5- CO_3	-6- HCO_3	-7- F	-8- Cl	-9- PO_4	-10- Br	-11- OAC	-12- SO_4	-13- NO_2	-14- NO_3	-15- H_2O	-16- Total Salts	-17- Elec Cond	-18- Pred Elec Cond	-19- Exch Na	-20- SAR
				(- Water Extracted From Saturated Paste -)																			
				(- - - - - mmol(+) L^{-1} - - - - -)				(- mmol(-) L^{-1} -)								(- - - - % - - - -)		(- - dS m^{-1} - -)		%	
04N05017	0-20	Ap	S																			--	
04N05018	20-31	E	S																			--	
04N05019	31-54	Bt1	S																			tr	
04N05020	54-84	Bt2	S																			1	
04N05021	84-120	Bt/E1	S																			1	
04N05022	120-139	Bt/E2	S																			2	
04N05023	139-183	Bt/E3	S																			7	
04N05024	183-210	2BC	S																			3	

*** Primary Characterization Data ***

Pedon ID: S04LA-033-001 (East Baton Rouge Parish, Louisiana) Print Date: Aug 10 2011 4:00PM
Sampled As : Scotlandville Fine-silty, mixed, active, thermic Oxyaquic Glossudalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 04N0884

pH & Carbonates

Layer	Depth (cm)	Horz	Prep	-1- KCl	-2- $CaCl_2$ 0.01M 1:2 4C1a2a	-3- H_2O 1:1 4C1a2a	-4- Sat Paste	-5- Sulf	-6- NaF	-7- Carbonate As $CaCO_3$ <2mm (%	-8- Carbonate As $CaCO_3$ <20mm	-9- Gypsum As $CaSO_4$*$2H_2O$ <2mm	-10- Gypsum As $CaSO_4$*$2H_2O$ <20mm	-11- Resist ohms cm^{-1}
04N05017	0-20	Ap	S		4.1	4.8								
04N05018	20-31	E	S		4.4	5.2								
04N05019	31-54	Bt1	S		4.5	5.4								
04N05020	54-84	Bt2	S		4.4	5.3								
04N05021	84-120	Bt/E1	S		4.4	5.8								
04N05022	120-139	Bt/E2	S		4.3	5.4								
04N05023	139-183	Bt/E3	S		4.3	5.5								
04N05024	183-210	2BC	S		4.3	5.6								

Phosphorous

Layer	Depth (cm)	Horz	Prep	-1- Melanic Index	-2- NZ %	-3- Acid Oxal 4G2a	-4- Bray 1 4D3	-5- Bray 2	-6- Olsen	-7- H_2O	-8- Citric Acid	-9- Mehlich III	-10- Extr NO_3 mg kg^{-1}
							(- Phosphorous - - - - - - - - - - - - - - - - - - -)						
							(- -mg kg^{-1} - - - - - - - - - - - - - - - - - -)						
04N05017	0-20	Ap	S				14.5						
04N05018	20-31	E	S				1.4						
04N05019	31-54	Bt1	S			--	0.9						
04N05020	54-84	Bt2	S				0.5						
04N05021	84-120	Bt/E1	S				1.1						
04N05022	120-139	Bt/E2	S				2.0						
04N05023	139-183	Bt/E3	S				8.9						
04N05024	183-210	2BC	S				9.0						

*** Primary Characterization Data ***

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Clay Mineralogy (<.002 mm)

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
						X-Ray					Thermal					Elemental				EGME	Inter
													SiO_2	Al_2O_3	Fe_2O_3	MgO	CaO	K_2O	Na_2O	Retn	preta
	Depth		Fract			7A1a1															tion
Layer	(cm)	Horz	ion	(- - - - - - - - - peak size - - - - - - - - - -)					(- - - - - - - - - % - - - - - - - - - -)				(- - - - - - - - - - - - - - - - - - - % - - - - - - - - - - - - - - - - - - -)							mg g^{-1}	
04N05017	0-20	Ap	tcly	KK 2	MI 2	VR 1	QZ 1														CMIX
04N05019	31-54	Bt1	tcly	KK 2	MI 2	VR 2	QZ 1														CMIX
04N05020	54-84	Bt2	tcly	KK 2	MI 2	VR 2	QZ 1														CMIX
04N05021	84-120	Bt/E1	tcly	KK 2	MI 2	VR 2	QZ 1														CMIX
04N05024	183-210	2BC	tcly	KK 3	VR 3	MI 1	GE 1	QZ 1													CMIX

FRACTION INTERPRETATION:
tcly - Total Clay, <0.002 mm

MINERAL INTERPRETATION:
GE - Goethite KK - Kaolinite MI - Mica QZ - Quartz VR - Vermiculite

RELATIVE PEAK SIZE: 5 Very Large 4 Large 3 Medium 2 Small 1 Very Small 6 No Peaks

*** Primary Characterization Data ***

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Sampled As : Scotlandville Fine-silty, mixed, active, thermic Oxyaquic Glossudalf
USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 04N0884

Sand - Silt Mineralogy (2.0-0.002 mm)

				-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
						X-Ray					Thermal					Optical				EGME	Inter
													Tot Re			Grain Count				Retn	preta
	Depth		Fract													7B1a2					tion
Layer	(cm)	Horz	ion	(- - - - - - - - peak size - - - - - - - - -)					(- - - - - - - - % - - - - - - - - - -)				(- % - - - - - - - - - - - - - - - - - - -)							mg g^{-1}	
04N05019	31-54	Bt1	csi										73	QZ 64	FK 21	CD 8	BT 2	MS 2	PR 2		SMIX
														OP 1	HN 1	FE tr	PO tr	BY tr	GS tr		
														RU tr	TM tr	AR tr	ZR tr				
04N05020	54-84	Bt2	csi										76	QZ 66	FK 19	CD 7	PR 3	MS 2	OP 1		SMIX
														BT 1	FE 1	ZR 1	RU tr	SS tr	TM tr		
														AR tr	ZE tr	BY tr	PO tr	GN tr	GS tr		
														HN tr							
04N05022	120-139	Bt/E2	csi										70	QZ 65	FK 25	CD 3	MS 2	OP 2	PR 2		SMIX
														BT 1	CA tr	PO tr	GN tr	GS tr	HN tr		
														BY tr	RU tr	AR tr	ZR tr				
04N05024	183-210	2BC	csi										83	QZ 79	FK 14	PR 2	CD 2	OP 2	BT 1		SMIX
														CA tr	PO tr	GN tr	HN tr	FE tr	MS tr		
														BY tr	RU tr	AR tr	ZR tr				

FRACTION INTERPRETATION:
csi - Coarse Silt, 0.02-0.05 mm

MINERAL INTERPRETATION:

AR - Weatherable Aggregates	BT - Biotite	BY - Beryl	CA - Calcite	CD - Chert (Chalcedony
FE - Iron Oxides (Goethite	FK - Potassium Feldspar	GN - Garnet	GS - Glass	HN - Hornblende
MS - Muscovite	OP - Opaques	PO - Plant Opal	PR - Pyroxene	QZ - Quartz
RU - Rutile	SS - Sponge Spicule	TM - Tourmaline	ZE - Zeolite	ZR - Zircon

*** Primary Characterization Data ***

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USDA-NRCS-NSSC-Soil Survey Laboratory ; Pedon No. 04N0884

INTERPRETATION (BY HORIZON):

SMIX - Mixed Sand

*** Glossary of Codes ***

Print Date: Aug 10 2011 4:00PM

Reports: Primary Characterization Report;
Pedons: 04N0884; 40A1323; 40A1329; 40A1330; 40A1335; 40A1352; 40A1353; 40A1354; 40A1355; 40A1356; 40A1357; 96P0004; 96P0005; 96P0006; 97P0453; 97P0454; 97P0455; 97P0456;

*** Method Codes ***

Code	Description
3B1	Particles >2 mm, Weight Estimates
3A1	PSDA, Routine, Pipet
3A1a1a	PSDA, Routine, Pipet
3A1a6a	PSDA, Water Dispersible, Air-dry
3C2a1a	Water Retention, 15 Bar, Pressure-Plate, <2mm
3D1	Water Retention, ADOD
3F1a1a	Aggregate Stability, 2- to 0.5-mm Aggregates Retained
4A1d	Bulk Density, 1/3-Bar Desorption I
4A1h	Bulk Density, Oven-Dry
4B1b	Water Retention, 0.1 or 0.33 bar, Soil Pieces
4B1c	Water Retention, clod, 0.06, 0.1, 0.33, or 1 bar, pressure-plate extraction
4B2a	Water Retention, 15 Bar, Pressure-Plate, <2mm
4B5	Water Retention, ADOD
4C1	derived WRD, 4C1
8D1	Ratio, to Total Clay - 8D1
DbWR1	Bulk Density and Water Retention, Pressure-Plate, Clods
3C1e1a	Water Retention, 2 Bar, Pressure-Plate, <2mm
4A1a	Bulk Density, Field State
4B1a	Water Retention, 2 Bar, Pressure-Plate, <2mm
4B4	Water Retention, Field State, clod
4F	derived Plasticity Index
4F1	Plasticity Index, Liquid Limit
4G1	Cations, Dithionite-Citrate Extractable
4G2a	Cations, Acid Oxalate Extractable
4G3	Cations, Pyrophosphate Extractable
4H2a	Total N, C, S
6A1a	Organic Carbon, acid dichromate digestion, FeSO4 titration
6A1c	Organic Carbon, acid dichromate digestion, FeSO4 titration, automatic titrator
6A2e	Total Carbon, dry combustion, CO2 evolution V
6B1a	Total Nitrogen, Kjeldahl digestion, ammonia distillation
6B4a	Total Nitrogen, dry combustion, N2 Evolution
6C1a	Iron, Dithionite Extraction, Dichromate Titration
4B1a1a	CEC and Cations, NH4OAc, 2M KCl displacement
4B3a1a	Cations, Potassium Chloride Extractable
5C3	derived BSECAT, 5C3
6N2e	Calcium, NH4OAc Extraction, Atomic Absorption I
6Q2b	Potassium, NHOAc Extraction, Atomic Absorption I
5A3b	derived ECEC, 5A3b
5A8b	CEC, NH4OAc, pH 7.0, automatic extractor, steam distillation I
6H1a	Extractable Acidity, BaCl2-Triethanolamine I
6P2b	Sodium, NH4OAc Extraction, Atomic Absorption I

5C1	derived BSESAT, 5C1
5G1	derived AL_SAT, 5G1
6D3b	Manganese, 1 N KCl Extractable, Automatic Extractor, Inductively Coupled Plasma Spectrometry II
6G9c	Cations, Potassium Chloride Extractable, 1 N, automatic extractor, ICP II (6G9c)
6N2b	Calcium, NH4OAc Extraction, Oxalate-Permanganate I
6O2d	Magnesium, NH4OAc Extraction, Atomic Absorption I
6Q2a	Potassium, NHOAc Extraction, Flame Photometry
4B2b1a1	Extractable Acidity, BaCl2-Triethanolamine, Centrifuge
5A1a	CEC, NH4OAc, pH 7.0, Buchner funnel, direct distillation
5A3a	derived CEC_SUM, 5A3a
6G1d	Aluminum, KCl Extraction I, 30 min., Fluoride Titration
6H5a	Extractable Acidity, BaCl2-Triethanolamine IV, automatic extractor
6O2b	Magnesium, NH4OAc Extraction, Phosphate Titration

*** Glossary of Codes ***

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*** Method Codes ***

Code	Description
6P2a	Sodium, NHOAc Extraction, Flame Photometry
6L1d	Sulfate, Saturation Extraction, Anion Chromatograph, Ionic Suppressor
6M1d	Nitrate, Saturation Extraction, Anion Chromatograph, Ionic Suppressor
8A	Water Content, Saturated Paste
5E	derived SAR, 5E
6I1b	Carbonate, Saturated Paste and Soluble Salts, titration
6N1b	Calcium, Saturation Extraction, Atomic Absorption I
6P1a	Sodium, Saturation Extraction, Flame Photometry
6Q1a	Potassium, Saturation Extraction, Flame Photometry
6U1b	Fluoride, Saturation Extraction, Anion Chromatograph, Ionic Suppressor
8A3a	Saturated Paste, Mixed, Saturation Extract, Automatic Extractor Conductivity, Digital Bridge
8D5	derived est total salts, 8D5
5D2	derived NA_EXCH, 5D2
6J1b	Bicarbonate, Saturation Extraction, Acid Titration, Automatic Extractor
6K1d	Chloride, Saturation Extraction, Anion Chromatograph, Ionic Suppressor
6O1b	Magnesium, Saturation Extraction, Atomic Absorption I
6P1b	Sodium, Saturation Extraction, Atomic Absorption I
6Q1b	Potassium, Saturation Extraction, Atomic Absorption I
6W1b	Nitrite, Saturation Extraction, Anion Chromatograph, Ionic Suppressor
8A1a	Saturated Paste and Soluble Salts, EC cap rise
8I	Salt Prediction, 1:2 (w/v)
4D3	Phosphorus, Bray 1
4C1a2a	pH, Routine, 1:1 Water and 1:2 0.01M CaCl2
6E1b	Calcium Carbonate Equivalent, HCl, <2mm, manometer (6E1b)
6E1g	Calcium Carbonate Equivalent, HCl, <2mm, manometer, electronic (6E1g)
6F1a	Gypsum, H2O Extraction, Acetone Precipitation, <2mm
8C1a	pH, 1:1 Water
8C1b	Reaction (pH), Saturated Paste
4H1b	Major Elements (HF+HNO3+HCl)
7A1a1	X-ray Diffraction, Thin Film on Glass, Resin Pretreatment
7A2i	X-ray Diffraction, Thin Film on Glass, Resin Pretreatment II
7B1a	Optical Analysis, Full Grain Count
7B1a2	Optical Analysis, Full Grain Count

*** Preparation Codes ***

Code	Description / List of Methods
Sjj	The air-dried soil passing a No. 10-mesh sieve 3A1, 3A1a1a, 3A1a6a, 3C2a1a, 3D1, 4B2a, 4B5, 3C1e1a, 4B1a, 4F, 4F1, 4G1, 4G2a, 4G3, 6A1a, 6A1c, 6A2e, 6B1a, 6B4a, 6C1a, 4B1a1a, 4B3a1a, 6N2e, 6Q2b, 5A8b, 6H1a, 6P2b, 6D3b, 6G9c, 6N2b, 6O2d, 6Q2a, 4B2b1a1, 5A1a, 6G1d, 6H5a, 6O2b, 6P2a, 6L1d, 6M1d, 8A, 6I1b, 6N1b, 6P1a, 6Q1a, 6U1b, 8A3a, 6J1b, 6K1d, 6O1b, 6P1b, 6Q1b, 6W1b, 8A1a, 8I, 4D3, 4C1a2a, 6E1b, 6E1g, 6F1a, 8C1a, 8C1b, 7A1a1, 7A2i, 7B1a, 7B1a2
Sal	The air-dried whole soil passing a No. 10-mesh sieve and retained on a No. 18-mesh sieve 3F1a1a

Caj The moist soil clod used for bulk density determinations
4A1d, 4A1h, 4B1b, 4B1c, DbWR1, 4A1a, 4B4
Sjf The air-dried soil passing a No. 10-mesh sieve ground to pass a No. 80-mesh sieve
4H2a, 4H1b

*** Instrument Sets ***

Instrument Set Name	List of Methods
Instrument Not Specified	3A1, 3B1, 3A1a6a, 3C2a1a, 3D1, 3F1a1a, 4A1d, 4A1h, 4B1b, 4B1c, 4B2a, 4B5, DbWR1, 3C1e1a, 4A1a, 4B1a, 4B4, 4F, 4F1, 6A1a, 6B1a, 6C1a, 6H1a, 6P2b, 6N2b, 6Q2a, 5A1a, 6G1d, 6O2b, 6P2a, 8A, 6P1a, 6Q1a, 8A1a, 6E1b, 7A2i, 7B1a, 7B1a2
Omega PCL-200 Pressure Calibrator	3A1a1a
Perkin Elmer Aanalyst 400	4G1
ICP-PE4300 radial and Cary 50 Conc (absorbance)	4G2a
Perkin Elmer Aanalyst 300	4G3
elementar Vario EL	4H2a
titrator	6A1c, 6H5a, 6I1b, 6J1b
elemental analyzer	6A2e, 6B4a

*** Glossary of Codes ***

Print Date: Aug 10 2011 4:00PM

Reports: Primary Characterization Report;
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*** Instrument Sets ***

Instrument Set Name	List of Methods
CEC and bases-Set 1 (AA-PE300 and Auto 1030 Analyzer)	4B1a1a
ICP - Perkin Elmer Optima 4300 DV (Radial)	4B3a1a
atomic adsorption spectrophotometer	6N2e, 6Q2b, 6P2b, 6G9c, 6O2d, 6N1b, 6O1b, 6P1b, 6Q1b
distillation titirator	5A8b
inductively coupled plasma spectrophotometer	6D3b
Titroprocessors	4B2b1a1, 4C1a2a
chromatograph	6L1d, 6M1d, 6U1b, 6K1d, 6W1b
EC meter	8A3a, 8I, 6F1a
Cary 50 Conc (absorbance)	4D3
pH meter	4C1a2a, 8C1a, 8C1b
manometer	6E1g
ICP - Perkin Elmer Optima 3300 DV (Axial)	4H1b
X-ray diffractometer	7A1a1

*** Analyzed Size Fractions ***

Size Fraction	List of Methods
<75 mm	3B1
<2 mm	3A1, 3A1a1a, 3A1a6a, 3C2a1a, 3D1, 4A1d, 4A1h, 4B1b, 4B1c, 4B2a, 4B5, 8D1, DbWR1, 3C1e1a, 4A1a, 4B1a, 4B4, 4F, 4F1, 4G1, 4G2a, 4G3, 6A1a, 6A1c, 6A2e, 6B1a, 6B4a, 6C1a, 4B1a1a, 4B3a1a, 5C3, 6N2e, 6Q2b, 5A3b, 5A8b, 6H1a, 6P2b, 5C1, 5G1, 6D3b, 6G9c, 6N2b, 6O2d, 6Q2a, 4B2b1a1, 5A1a, 5A3a, 6G1d, 6H5a, 6O2b, 6P2a, 6L1d, 6M1d, 8A, 5E, 6I1b, 6N1b, 6P1a, 6Q1a, 6U1b, 8A3a, 8D5, 5D2, 6J1b, 6K1d, 6O1b, 6P1b, 6Q1b, 6W1b, 8A1a, 8I, 4D3, 4C1a2a, 6E1b, 6E1g, 6F1a, 8C1a, 8C1b
1-2 mm	3F1a1a
whole soil	4C1
<80 Mesh	4H2a, 4H1b
<0.002 mm	7A1a1, 7A2i
0.02-0.05 mm	7B1a, 7B1a2

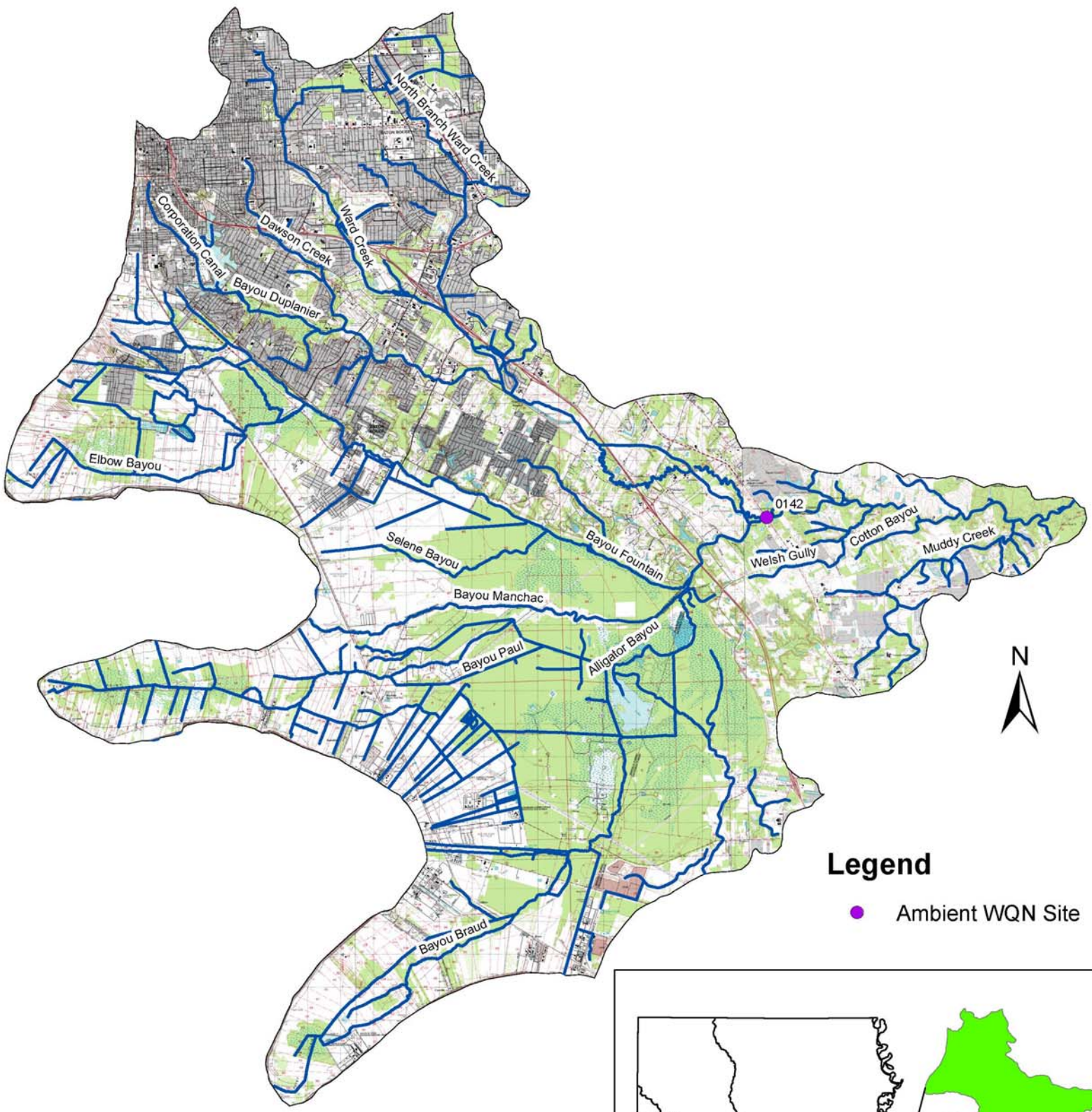
Appendix D6 – Reference Stream Data

Site ID Number	Waterbody	Site Description	Subsegment	Collection Date	Collection Time	LAB ID NUMBER	Chloride, Ion Chromatograph (ppm)	Sulfate (ppm)	Specific Conductance (umhos/cm)	Sodium (ppm)	SALINITY (ppt)	Alkalinity (ppm)	Hardness (ppm)	pH, Ultimate BOD survey	TDS (ppm)	TSS (ppm)	Turbidity (NTU)	Color (PCU)	Ammonia-Nitrogen (ppm)	Nitrate+ Nitrite Nitrogen (ppm)	TKN (ppm)	TOC (ppm)	TP (ppm)
0447	Anacoco Bayou	north of Rosepine, downstream of bridge on Hawkins Road	110506	1/29/2003	11:00:00 AM	AF01822	4.6	3.2	45.3	12.9		9.7	13.9	5.96	52.7	15.2	19		ND	0.09	0.41	6.1	0.09
				10/8/2003	11:30:00 AM	AF22918	9.2	4.4	120	10.7		36.4	32.3	6.6	75.3	6.5	7.6	35	ND	0.56	0.25	5.1	0.1
0450	Little Kisatchie Bayou	north of Leesville, downstream of bridge on LA Hwy 118 in Kisatchie National Forest	101103			AF04741	2.8	4.5	30.7	2.5		3.5	5.6	6.65	59.3	6.5	12		ND	ND	ND	3	0.08
				10/8/2003	10:05:00 AM	AF22923	3.9	5.9	50.5	5		7.6	8.8	6.92	67.3	ND	2.6	25	ND	ND	0.1	3.7	0.06
				3/11/2004	9:10:00 AM	AG06009	2.9	4.4	31.5			3.9	6.7	6.55	56	4	13		ND	ND	0.11	4	0.09
0457	Chemin-A-Haut Creek	north of Bastrop, upstream of bridge on Chem Cutoff Road	80401	11/20/2002	10:10:00 AM	AE25657	14.7	4.5	133	11.6		43.6	40.5	6.52	99.3	ND	8.1		ND	ND	0.7	9.9	0.07
				10/22/2003	9:50:00 AM	AF24138	18.1	ND	204	16.5		83.2	70.2	6.89	114	ND	2.8		ND	0.06	0.27	7.3	0.07
0458	Bayou Bartholemew	northeast of Bastrop, upstream of bridge on Knox Ferry Road	80401	11/20/2002	11:00:00 AM	AE25662	15.2	12.6	133	9.1		41.6	46.2	6.32	125	18	58		ND	0.18	0.89	8.1	0.23
				10/22/2003	10:25:00 AM	AF24143	19.9	6.4	231	15.7		89.7	92.7	7.07	150	23.3	22		ND	0.08	0.31	7.2	0.11
				1/28/2004	9:15:00 AM	AG02244	8.9	6.4	111	6.7		30.4	34.9	6.65	111	29	80		ND	ND	0.8	12	0.27
0466	Duck Slough	east of Pineville, upstream of bridge on Muddy Bayou Road in	101501	11/20/2002	11:50:00 AM	AE25667	2.4	ND	48.5	2.9		15.4	21.1	5.89	91.3	30.7	16		0.16	ND	1.93	30.7	0.11
				1/28/2004	11:15:00 AM	AG02249	2.1	ND	37.3	1.8		8.9	14.9	NR	62	9.5	17		ND	ND	1.01	27	0.05
0486				11/20/2002	11:10:00 AM	AE25672	2.2	ND	49.3	2.1		20.3	26.5	5.93	105	22.7	22		ND	ND	1.85	33.2	0.08
				1/28/2004	12:00:00 PM	AG02254	1.8	ND	47.1	1.5		14	21.7	NR	72.7	6	18		Nd	ND	1.69	34.8	0.06
0487	Little Bayou Pierre	north of Simpson, downstream of bridge on LA Hwy 118 in Kisatchie National Forest	101103			AF04746	3.2	5.3	35.7	2.9		4	6.9	5.93	53.3	4.5	11		ND	ND	ND	3.1	0.08
				10/8/2003	9:45:00 AM	AF22928	5.1	9.2	64.6	7.1		10.1	12.1	6.85	88	ND	4	25	ND	ND	ND	3.5	0.07
				3/11/2004	9:10:00 AM	AG06013	3.1	5.5	37.2			4.2	7.9	6.49	65.3	16.5	13		ND	ND	0.19	5.1	0.07
0488	Bear Head Creek	west/northwest of DeQuincy, downstream of bridge on LA Hwy	30807	1/29/2003	12:10:00 PM	AF01827	9.6	1.8	45.2	5.2		ND	9.1	6.07	70	9.5	25		ND	ND	0.83	9.1	ND
				10/8/2003	1:10:00 PM	AF22933	5.1	2	37.6	3.7		2.6	11.5	6.49	75.3	4.7	9.3	180	ND	ND	0.66	20.4	0.08
0489	Bechwith Creek	north of DeQuincy, downstream of bridge on Smokey Cove Pentecostal Church Road	30803	1/29/2003	1:34:00 PM	AF01842	8.2	2.4	49.5	5.2		6.3	12.7	5.53	64.7	14.3	23		ND	ND	0.31	7.4	0.11
				10/8/2003	1:50:00 PM	AF22938	5.2	2.4	50.9	3.2		9.5	16.6	6.44	80.7	9.3	13	110	ND	ND	1.11	14.1	0.1
				3/11/2004	9:10:00 AM	AG06017	6.9	1.6	52.8			8.5	14.7	6.51	74	7	20		ND	0.06	0.7	13.9	ND
0490	Castor Creek	east of Oberlin, downstream of bridge on Parish Road 146	50303	1/29/2003	10:45:00 AM	AF01847	5.4	2.7	49.2	4.3		12.7	14.4	6.3	87.3	14	44		0.15	0.14	0.58	7.2	0.13
				10/8/2003	10:45:00 AM	AF22943	6.6	2.4	77	4.2		22.5	22.7	6.83	77.3	8	13	110	ND	ND	1.04	12.9	0.17
0491	Bayou Nezpique	northwest of mamou, upstream of bridge on LA Hwy. 376	50301	1/29/2003	11:30:00 AM	AF01852	12.9	4.1	93.2	10.7		16.6	19.7	6.26	108	34.7	64		0.13	0.44	0.94	7.3	0.18
				10/8/2003	11:45:00 AM	AF22948	33.1	6.3	290	43.1		85.2	46.2	8.07	219	6	37	90	0.18	0.33	1.54	14.1	0.26
				3/11/2004	9:10:00 AM	AG06029	6.6	2.5	79			23.3	22.7	6.94	135	21.5	82		0.12	0.26	1.4	17.2	0.22
0494	Bogue Lusa Creek	near Sheridan, downstream of bridge on LA Hwy 439	90401	11/20/2002	10:53:00 AM	AE25687	4	ND	22.2	2		2.2	ND	5.08	26.7	4	3.7		ND	0.07	0.36	6.8	0.14
				10/22/2003	11:30:00 AM	AF24148	3.9	ND	22.3	2.2		2.9	ND	7.42	22.7	ND	2.9		ND	0.08	0.2	4.1	0.07
				1/28/2004	11:20:00 AM	AG02259	3.9	ND	24.1	2		2.5	5.4	6.66	ND	ND	4.3		ND	0.09	0.54	4.9	ND
0495	Tchefuncte River	west of Wilmer, downstream of bridge on LA Hwy 10	40801	11/20/2002	9:30:00 AM	AE25692	5.3	ND	45.2	3.1		9.2	11.5	5.49	30	9	9.2		ND	0.81	0.51	3	0.11
				10/22/2003	10:40:00 AM	AF24153	5	3.2	37.6			6.5	8.4		22	4	4.3		ND	0.84	0.19	ND	0.08
				1/28/2004	10:45:00 AM	AG02264	5.3	ND	48.6			8.2	10.8		23.3	ND	7.1		0.23	0.85	0.85	3.6	0.11
				3/11/2004	9:10:00 AM	AG06041	5.1	ND	47.4			8.3	11.9		37.3	9	9.2		0.14	0.84	0.35	2.7	0.07
0496	Crittenden Creek	north of Greensburg, upstream of bridge on LA Hwy 441	40501			AF04751	4	ND	34.1	2.4		7.1	8.3	6.38	34	6.3	7.8		ND	0.18	ND	ND	0.07
				10/8/2003	2:25:00 PM	AF22958	4.1	ND	32.7	3		6.9	7.2	7.36	30	5	4.2	25	ND	0.19	ND	ND	0.07
				3/11/2004	9:10:00 AM	AG06103	3.7	ND	34.9			7.8	9.5	6.78	ND	8	9.2		ND	0.19	0.2	3.3	0.07
0497						AF04756	3.7	ND	35.2	3.5		7.9	7.9		36.7	16.5	15		ND	0.07	ND	ND	0.07
				1/29/2003	9:35:00 AM	AF01857	4.1	ND	31.9	3.7		8	7.7	6.56	22	4.5	6		ND	0.07	ND	ND	0.07
				10/8/2003	3:35:00 PM	AF22968	3.9	ND	30.6	3.4		7.6	7.8	6.8	38.7	31	13	15	ND	0.08	0.21	ND	0.08
				3/11/2004	9:10:00 AM	AG06107	3.7	1.3	34.5			7.5	8.2	6.76	17.3	7	9.7		ND	0.08	0.18	3	0.11
0498	Middle Fork Thopmson Creek	north of Jackson, downstream of bridge on LA Hwy 421	70502			AF04766	5.9	5.6	60.5	5.4		12.3	12.9	6.6	46	6.5	7.1		ND	ND	ND	ND	ND
				11/20/2002	10:30:00 AM	AE25707	6.4	4.3	60.8	6.6		15.3	15		50.7	ND	3.9		ND	0.09	0.21	ND	0.05
				10/22/2003	10:30:00 AM	AF24158	7.6	2.6	66.4	7.5		17.7	13.9	6.61	52.7	4	2.5		ND	0.05	ND	ND	0.07
				1/28/2004	11:15:00 AM	AG02269	4.7	4.7	52.7	4.1		8.9	11.3	NR	42.7	7	26		ND	0.2	0.56	4.2	0.07
0525	West Fork Thompson Creek	north of Jackson, upstream of bridge on Laurel Hill Creek Rd./Harris Conner Rd.	70502			AF04771	6.7	9.6	90.7	7.7		23.5	22.2	6.8	132	11	10		ND	ND	0.16	2.2	0.09
				11/20/2002	11:45:00 AM	AE25712	8.7	7.3	107	12.6		32.8	24.7	6.26	76	4	6.5		ND	0.44	0.41	2.3	0.06
				10/22/2003	9:45:00 AM	AF24163	8.3	4.3	93.7	10.6		30.4	21.1		66.7	ND	2.9		ND	0.1	0.19	2.2	0.06
				1/28/2004	10:05:00 AM	AG02274	5.7	7.6	84.8	6.6		17.6	20.1	6.58	65.3	9.5	26		ND	0.5	0.32	5.6	0.13
				1/28/2004	10:05:00 AM	AG02279	5.6	7.8	85.3	6.6		17.5	20.4	6.61	58.7	8	27		ND	0.5	0.27	5.3	0.06
0526	Little Comite Creek	northeast of Norwood, downstream of bridge on Parish Rd, 1 mi east of LA Hwy 19	40101			AF04776	8.7	2.3	66	6.7		13.7	14.5	6.5	47.3	10.5	10.1		ND	0.24	0.27	2	0.09
				11/20/2002	9:05:00 AM	AE25717	8.9	1.8	67.2	7.3		14.6	15.2	6.02	55.3	ND	6.9		ND	0.45	0.51	2.3	0.1
				10/22/2003	11:30:00 AM	AF24173	9.1	1.7	60.1	7.8		12	11.9	6.25	46.7	5.5	6.3		ND	0.37	0.49	2.2	0.07
				1/28/2004	12:50:00 PM	AG02284	7.3	2.9	65.5	5.4		11.2	14.4	6.57	53.3	5	19		ND	0.42	0.85	5.7	0.08
0527	Bogue Falaya River	north of Folsum, downstream of bridge on Joseph Road	40804	10/22/2003	12:45:00 PM	AF24183	3.9	ND	25.7	2.4		4.6	5.9	6.39	24.7	5.5	3.3		ND	0.07	0.33	3.1	ND
				1/28/2004	10:00:00 AM	AG02289	4.5	ND	29.6	2.4		4	6.9	6.44	ND	ND	3.8		0.12	0.07	0.51	4.7	ND
				3/11/2004	9:10:00 AM	AG06111	3.9	ND	27.5			4.4	6.6	6.86	29.3	ND	4.5		ND	0.06	0.19	6.1	ND

Appendix E – Maps and Diagrams

Appendix E1 – Map of Study Area

Bayou Manchac (040201) Study Area for Chlorides, Sulfates, and Total Dissolved Solids TMDLs

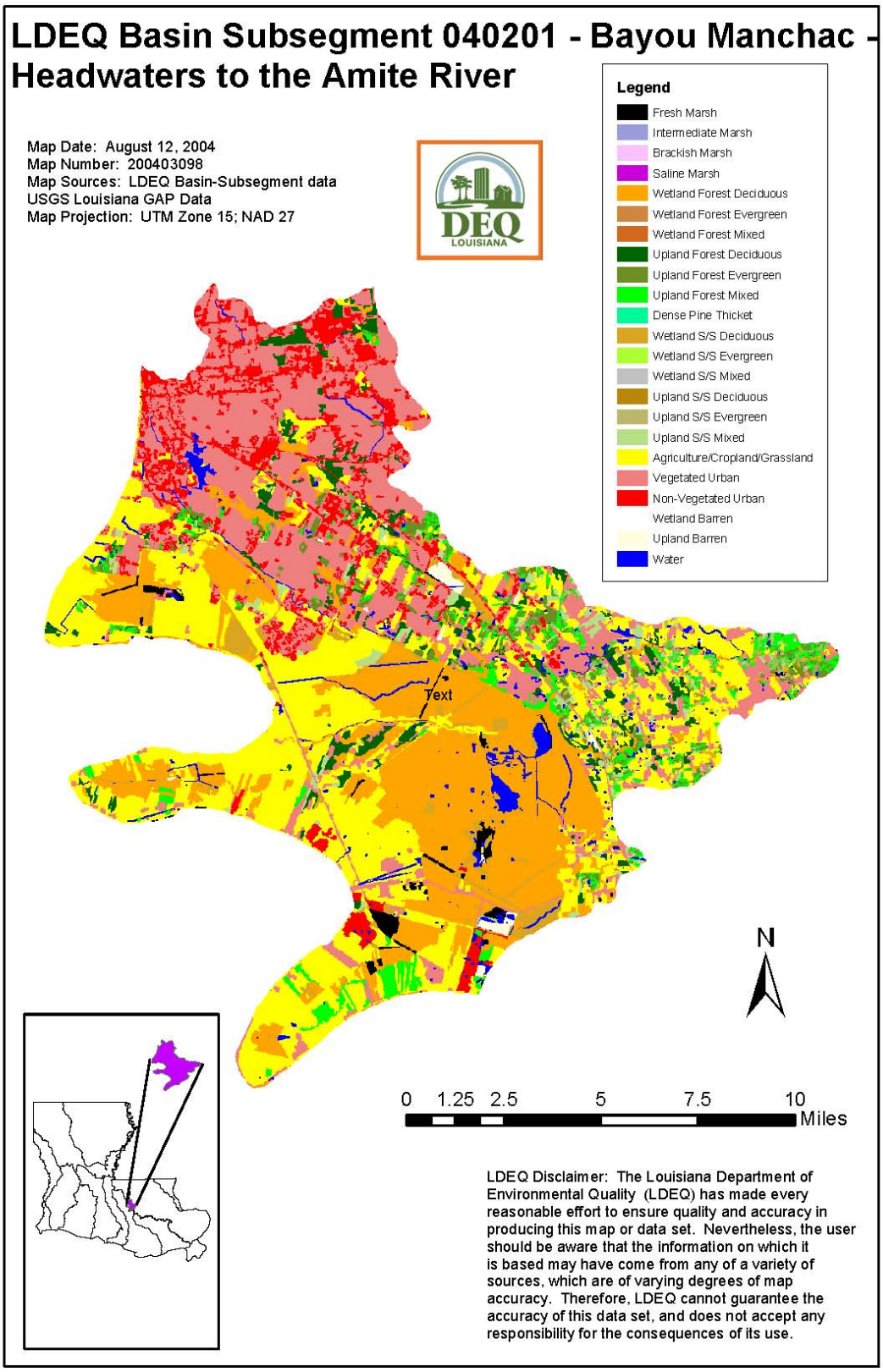


Map date: 09/12/2011
Map number: 201103078
Map sources: USGS, DEQ
Map projection: UTM Zone 15
Map datum: NAD83
DEQ/OEC/AD/WS

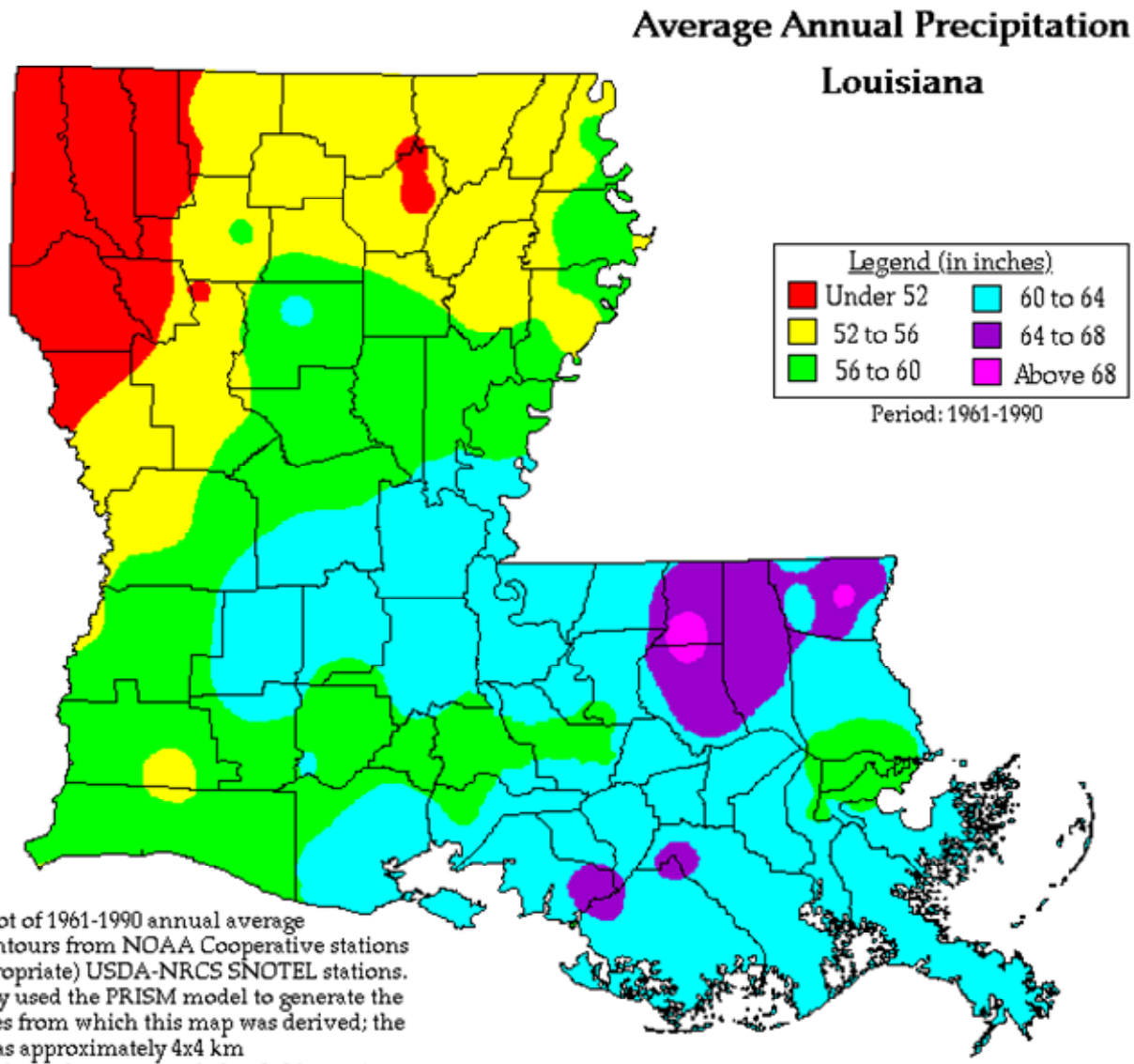
LDEQ Disclaimer: The Louisiana Department of Environmental Quality(LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, 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 1,550 3,100 6,200 9,300 12,400 Meters

Appendix E2 – Land Use Map

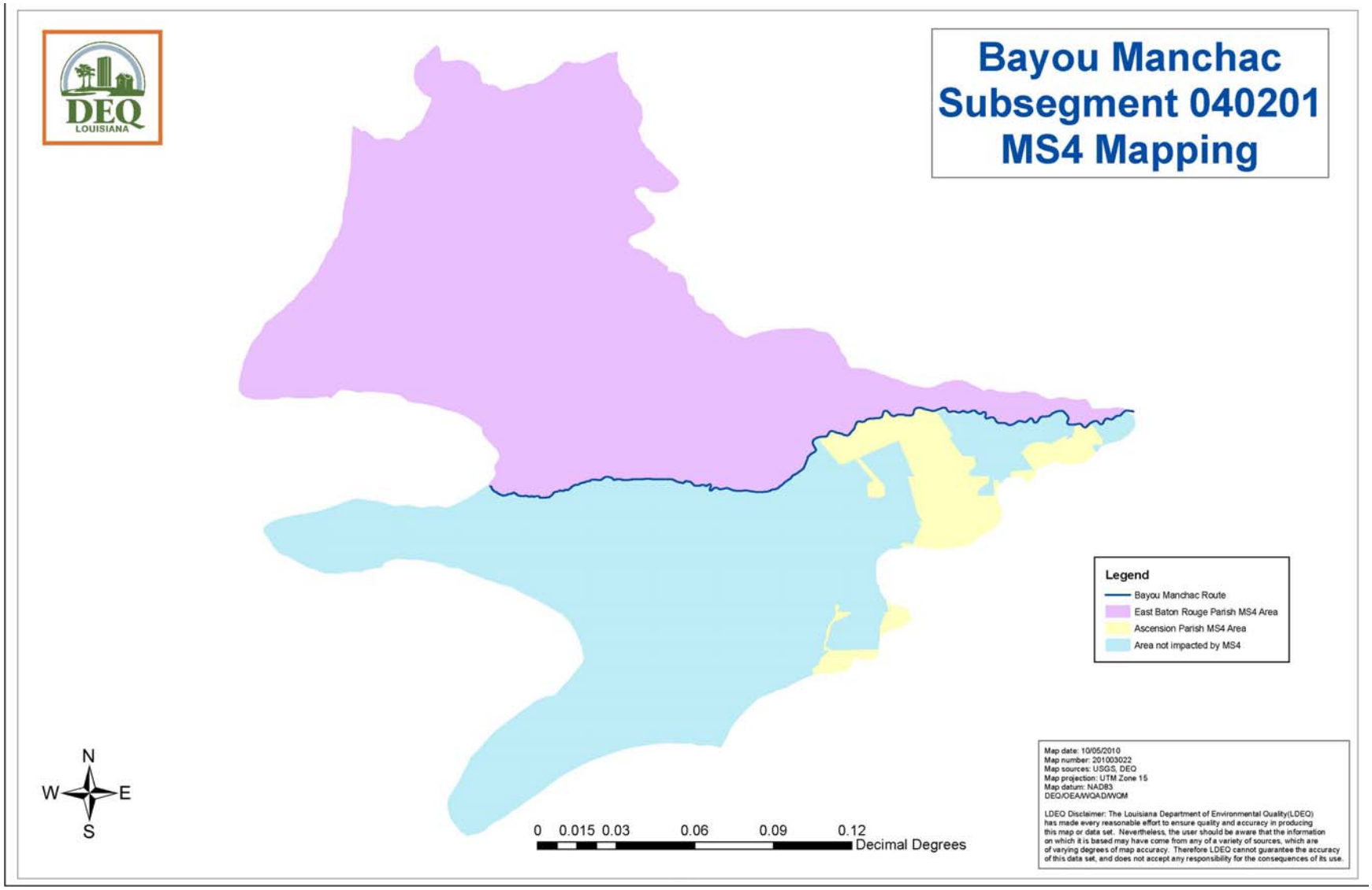

LDEQ Basin Subsegment 040201 - Bayou Manchac - Headwaters to the Amite River
Map Date: August 12, 2004
Map Number: 200403098
Map Sources: LDEQ Basin-Subsegment data
USGS Louisiana GAP Data
Map Projection: UTM Zone 15; NAD 27
DEQ
LOUISIANA
Legend
Fresh Marsh
Intermediate Marsh
Brackish Marsh
Saline Marsh
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
Text
N
0 1.25 2.5 5 7.5 10
Miles
LDEQ Disclaimer: The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.

Appendix E3 – 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 E4 – MS4 Coverage Map


Bayou Manchac
Subsegment 040201
MS4 Mapping
DEQ
LOUISIANA
Legend
Bayou Manchac Route
East Baton Rouge Parish MS4 Area
Ascension Parish MS4 Area
Area not impacted by MS4
N
W
E
S
0 0.015 0.03 0.06 0.09 0.12
Decimal Degrees
Map date: 10/05/2010
Map number: 201003022
Map sources: USGS, DEQ
Map projection: UTM Zone 15
Map datum: NAD83
DEQ/OEA/WQA/WQM
LDEQ Disclaimer: The Louisiana Department of Environmental Quality(LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.

Appendix F – Water Quality Criteria and Toxicity Information

Appendix F1 – EPA's National Recommended Criteria for Non-Priority Pollutants

NATIONAL RECOMMENDED WATER QUALITY CRITERIA FOR NON PRIORITY POLLUTANTS

Non Priority Pollutants

	Non Priority Pollutant	CAS Number	Freshwater		Saltwater		Human Health for the consumption of		FR Cite / Source
			CMC (acute) (µg/L)	CCC (chronic) (µg/L)	CMC (acute) (µg/L)	CCC (chronic) (µg/L)	Water + Organism (µg/L)	Organism Only (µg/L)	
1	**Alkalinity**	—		20000 F					Gold Book
2	**Aluminum pH 6.5 – 9.0**	7429905	750 G,I	87 G,I,L					53 FR 33178
3	**Ammonia**	7664417	FRESHWATER CRITERIA ARE pH, Temperature and Life-stage DEPENDENT — SEE DOCUMENT D SALTWATER CRITERIA ARE pH AND TEMPERATURE DEPENDENT						EPA 822-R99-014 EPA 440-588-004
4	**Aesthetic Qualities**	—	NARRATIVE STATEMENT — SEE DOCUMENT						Gold Book
5	**Bacteria**	—	FOR PRIMARY RECREATION AND SHELLFISH USES — SEE DOCUMENT						Gold Book
6	**Barium**	7440393					1,000 A		Gold Book
7	**Boron**	—	NARRATIVE STATEMENT — SEE DOCUMENT						Gold Book
8	**Chloride**	16887006	860000 G	230000 G					53 FR 19028
9	**Chlorine**	7782505	19	11	13	7.5	C		Gold Book
10	**Chlorophenoxy Herbicide (2,4,5,-TP)**	93721					10 A		Gold Book
11	**Chlorophenoxy Herbicide (2,4-D)**	94757					100 A,C		Gold Book
12	**Chloropyrifos**	2921882	0.083 G	0.041 G	0.011 G	0.0056 G			Gold Book
13	**Color**	—	NARRATIVE STATEMENT — SEE DOCUMENT F						Gold Book
14	**Demeton**	8065483		0.1 F		0.1 F			Gold Book
15	**Ether, Bis(Chloromethyl)**	542881					0.00010 E,H	0.00029 E,H	65 FR 66443
16	**Gases, Total Dissolved**	—	NARRATIVE STATEMENT — SEE DOCUMENT F						Gold Book

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Appendix F2 – Water Quality Toxicity Information

09MayChlorideRev.doc DRAFT 5-21-09
C. Stephan

Description of the Review of Results of Toxicity Tests on Chloride

Sections II.B, II.C, II.D, II.E, II.F, IV.B, IV.C, IV.D, IV.E, IV.H, VI.B, VI.C, VI.D, and VI.E of the 1985 Guidelines give reasons why some results of toxicity tests should not be used, should be rejected, or should not be used in calculations, whereas sections II.G, X, XI.C, XII.A.14, and XII.B allow the use of "questionable data" and "other data" in some situations. An easy-to-understand way of explaining the material given in the sections listed above is to say that sections II.B, II.C, II.D, II.E, II.F, IV.B, IV.C, IV.D, IV.E, IV.H, VI.B, VI.C, VI.D, and VI.E give reasons why some results of toxicity tests using aquatic animals should not be directly used in the derivation of a FAV or a FCV, whereas sections II.G, X, XI.C, XII.A.14, and XII.B describe other possible uses of test results with aquatic animals that should not be directly used in the derivation of a FAV or a FCV.

The 1985 Guidelines say the following concerning the use of results of toxicity tests using aquatic animals:

1. General guidance
   a. All data should be available in typed, dated, and signed hard copy (publication, manuscript, letter, memorandum, etc.) with enough supporting information to indicate that acceptable test procedures were used and that the results are probably reliable. (see section II.B)
   b. Information that is confidential or privileged or otherwise not available for distribution should not be used. (see section II.B)
   c. Questionable data, whether published or unpublished, should not be used. For example, a test result should usually be rejected if it is from:
      i. a test that did not contain a control treatment.
      ii. a test in which too many organisms in the control treatment died or showed signs of stress or disease.
      iii. a test in which distilled or deionized water was used as the dilution water without addition of appropriate salts.

      (see section II.C)
   d. A result of a test on technical-grade material may be used if appropriate, but a result of a test on a formulated mixture or an emulsifiable concentrate of the test material should not be used. (see section II.D)
   e. For some highly volatile, hydrolyzable, or degradable materials it is probably appropriate to use only results of flow-through tests in which the concentrations of test material in the test solutions were measured often enough using acceptable analytical methods. (see section II.E)
   f. Data should be rejected if they were obtained using:
      i. Brine shrimp
      ii. A species that does not have a reproducing wild population in North America.
      iii. Organisms that were previously exposed to substantial concentrations of the test material or other contaminants.

      (see section II.F)

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2. Guidance specifically regarding results of acute tests
   g. Acute toxicity tests should have been conducted using acceptable procedures. (see section IV.B) The following two ASTM Standards are referenced as examples of acceptable procedures:
      i. ASTM Standard E 729, Practice for Conducting Acute Toxicity Tests with Fishes, Macroinvertebrates, and Amphibians. (The title was later changed to "Standard Guide for Conducting Acute Toxicity Tests on Test Materials with Fishes, Macroinvertebrates, and Amphibians".)
      ii. ASTM Standard E 724, Practice for Conducting Static Acute Toxicity Tests with Larvae of Four Species of Bivalve Molluscs. (The title was later changed to "Standard Guide for Conducting Static Acute Toxicity Tests Starting with Embryos of Four Species of Saltwater Bivalve Molluscs".)

      Some of the most important items in Standard E 729 are:
      1. In section 9.1 it says "The test material should be reagent grade or better, unless a test on a formulation, commercial product, or technical-grade or use-grade material is specifically needed." ("Reagent grade" is referenced to the specifications of the American Chemical Society.)
      2. In section 9.2.3 it says "If an organic solvent is used, it should be reagent grade or better and its concentration in any test solution must not exceed 0.5 mL/L. A surfactant must not be used in the preparation of a stock solution because it might affect the form and toxicity of the test material in the test solutions."
      3. In section 11.2.1 it says "For static tests the concentration of dissolved oxygen in each test chamber must be from 60 to 100 % of saturation during the first 48 h of the test and must be between 40 and 100 % of saturation after 48 h. For renewal and flow-through tests the concentration of dissolved oxygen in each test chamber must be between 60 and 100 % of saturation at all times during the test."

      When water quality criteria for aquatic life are derived, USEPA does not automatically accept all toxicity tests that are performed according to an ASTM Standard or according to "Standard Methods". USEPA reviews results of all aquatic toxicity tests for acceptability using best professional judgement. Although written methodologies are very useful, no such methodology can appropriately address all aspects of toxicity tests, especially all organism-specific and all pollutant-specific aspects. In addition, written methodologies often do not keep up with the newest information that is available.
   h. Except for tests using saltwater annelids and mysids, results of acute tests during which the test organisms were fed should not be used, unless data indicate that the food did not affect the toxicity of the test material. (see section II.C)
   i. Results of acute tests conducted in unusual dilution water, e.g., dilution water in which total organic carbon or particulate matter exceeded 5 mg/L, should not be used, unless a relationship is developed between acute toxicity and organic carbon or particulate matter or unless data show that organic carbon, particulate matter, etc., do not affect toxicity. (see section IV.D)
   j. Acute values should be based on endpoints which reflect the total severe acute adverse impact of the test material on the organisms used in the test. Therefore, only the following kinds of data on acute toxicity to aquatic animals should be used:
      1. Tests with daphnids and other cladocerans should be started with organisms less than 24 hours old and tests with midges should be started with second- or third-

instar larvae. The result should be the 48-hr EC50 based on percentage of organisms immobilized plus percentage of organisms killed. If such an EC50 is not available from a test, the 48-hr LC50 should be used in place of the desired 48-hr EC50. An EC50 or LC50 of longer than 48 hr can be used as long as the animals were not fed and the control animals were acceptable at the end of the test.

2. The result of a test with embryos and larvae of barnacles, bivalve molluscs (clams, mussels, oysters, and scallops), sea urchins, lobsters, crabs, shrimp, and abalones should be the 96-hr EC50 based on the percentage of organisms with incompletely developed shells plus the percentage of organisms killed. If such an EC50 is not available from a test, the lower of the 96-hr EC50 based on the percentage of organisms with incompletely developed shells and the 96-hr LC50 should be used in place of the desired 96-hr EC50. If the duration of the test was between 48 and 96 hr, the EC50 or LC50 at the end of the test should be used.
3. The acute values from tests with all other freshwater and saltwater animal species and older life stages of barnacles, bivalve molluscs, sea urchins, lobsters, crabs, shrimps, and abalones should be the 96-hr EC50 based on the percentage of organisms exhibiting loss of equilibrium plus the percentage of organisms immobilized plus the percentage of organisms killed. If such an EC50 is not available from a test, the 96-hr LC50 should be used in place of the desired 96-hr EC50.
4. Tests with single-celled organisms are not considered acute tests, even if the duration was 96 hours or less.
5. If the tests were conducted properly, acute values reported as "greater than" values and those which are above the solubility of the test material should be used, because rejection of such acute values would unnecessarily lower the Final Acute Value by eliminating acute values for resistant species.

(see section IV.E)

k. The agreement of the data within and between species should be considered. Acute values that appear to be questionable in comparison with other acute and chronic data for the same species and for other species in the same genus probably should not be used in the calculation of a SMAV. For example, if the acute values available for a species or genus differ by more than a factor of 10, some or all of the values probably should not be used in calculations. (see section IV.H)

3. Guidance specifically regarding results of chronic tests

l. Chronic values should be based on results of flow-through (except renewal is acceptable for daphnids) chronic tests in which the concentrations of test material in the test solutions were properly measured at appropriate times during the test. (see section VI.B)

m. Results of chronic tests in which survival, growth, or reproduction in the control treatment was unacceptably low should not be used. The limits of acceptability will depend on the species. (see section VI.C)

n. Results of chronic tests conducted in unusual dilution water, e.g., dilution water in which total organic carbon or particulate matter exceeded 5 mg/L, should not be used, unless a relationship is developed between chronic toxicity and organic carbon or particulate matter or unless data show that organic carbon, particulate matter, etc., do not affect toxicity. (see section VI.D)

o. Chronic values should be based on endpoints and lengths of exposure appropriate to the species. Therefore, only data on chronic toxicity to aquatic animals that satisfy the species-specific requirements given in sections VI.E.1, VI.E.2, and VI.E.3 should be used.

4. Guidance regarding other possible uses of results of toxicity tests using aquatic animals
   p. Questionable data, data on formulated mixtures and emulsifiable concentrates, and data obtained with non-resident species or previously exposed organisms may be used to provide auxiliary information but should not be used in the derivation of criteria. (see section II.F)
   q. Pertinent information that could not be used in earlier sections might be available concerning adverse effects on aquatic organisms and their uses. The most important of these are data on cumulative and delayed toxicity, flavor impairment, reduction in survival, growth, or reproduction, or any other adverse effect that has been shown to be biologically important. Especially important are data for species for which no other data are available. Data from behavioral, biochemical, physiological, microcosm, and field studies might also be available. Data might be available from tests conducted in unusual dilution water, from chronic tests in which the concentrations were not measured, from tests with previously exposed organisms, and from tests on formulated mixtures or emulsifiable concentrates. Such data might affect a criterion if the data were obtained with an important species, the test concentrations were measured, and the endpoint was biologically important. (see section X)
   r. The CCC is equal to the lowest of the FCV, FPV, and FRV, unless other data show that a lower value should be used. (see section XI.C)
   s. Are any of the other data important? (see section XII.A.14)
   t. On the basis of all available pertinent laboratory and field information, determine if the criterion is consistent with sound scientific information. If it is not, another criterion, either higher or lower, should be derived using appropriate modifications of these Guidelines. (see section XII.B)

In addition, the following aquatic life criteria documents published by U.S. EPA in 1985, 1986, 1987, and 1988 gave a variety of reasons for classifying specific test results as "unused":

U.S. EPA. 1985. Ambient Water Quality Criteria for Cadmium - 1984. EPA 440/5-84-032. U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1985. Ambient Water Quality Criteria for Chlorine - 1984. EPA 440/5-84-030. U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1985. Ambient Water Quality Criteria for Copper - 1984. EPA 440/5-84-031. U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1985. Ambient Water Quality Criteria for Lead - 1984. EPA 440/5-84-027. U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1985. Ambient Water Quality Criteria for Mercury - 1984. EPA 440/5-84-026. U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1986. Ambient Water Quality Criteria for Chlorpyrifos - 1986. EPA 440/5-86-005. U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1986. Ambient Water Quality Criteria for Parathion - 1986. EPA 440/5-86-007. U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1986. Ambient Water Quality Criteria for Pentachlorophenol - 1986. EPA 440/5-86-009. U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1986. Ambient Water Quality Criteria for Toxaphene - 1986. EPA 440/5-86-006. U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1987. Ambient Water Quality Criteria for Selenium - 1987. EPA 440/5-87-006. U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1987. Ambient Water Quality Criteria for Zinc - 1987. EPA 440/5-87-003. U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 1988. Ambient Water Quality Criteria for Chloride - 1988. EPA 440/5-88-001. U.S. Environmental Protection Agency, Washington, DC.

The following is a compilation of the reasons, although some have been paraphrased. Most of these reasons can be considered to be based on items a through o listed above.

1. The document is a secondary publication of the test result.
2. The test procedures, test material, dilution water, and/or results were not adequately described.
3. The test species is not resident in North America.
4. The test species was not obtained in North America and was not identified well enough to determine whether it is resident in North America.
5. The test organisms were not identified beyond, for example, "crayfish" or "minnows."
6. There is reason to believe that the test organisms were possibly stressed by disease or parasites.
7. The test organisms were exposed to elevated concentrations of the test material before the test and/or the control organisms contained high concentrations of the test material.
8. The test organisms were obtained from a sewage oxidation pond.
9. By the end of the test, the test organisms had not been fed for too long a period of time.
10. The water quality varied too much during the test.
11. The test was conducted with brine shrimp, which species are from a unique saltwater environment.
12. The exposed biological material was an enzyme, excised or homogenized tissue, tissue extract, plasma, or cell culture.
13. The test organisms were not acclimated to the dilution water for a sufficiently long time.
14. The test organisms were exposed to the test material via gavage, injection, or food.
15. There is reason to believe that the test organisms were probably crowded during the test.
16. The test organisms reproduced during an acute test and the young could not be distinguished from the old at the end of the test.
17. The test material was a component of a mixture, effluent, fly ash, sediment, drilling mud,

sludge, or formulation.

18. In a test on zinc, the dilution water contained a phosphate buffer.
19. The test material was chlorine and it was not measured acceptably during the test.
20. The test chamber contained sediment.
21. The test was conducted in plastic test chambers without measurement of the test material.
22. The test was a field study and the concentration of test material was not measured adequately.
23. A known volume of stock solution was placed on a wall of the test chamber and evaporated and then dilution water was placed in the test chamber; the investigators assumed that all of the test material dissolved in the dilution water, but the concentrations of the test material in the test solutions were not measured.
24. The test only studied metabolism of the test material.
25. The only effects studied were biochemical, histological, and/or physiological.
26. The data concerned the selection, adaptation, or acclimation of organisms for increased resistance to the test material.
27. The percent survival in the control treatment was too low.
28. The concentration of solvent in some or all of the test solutions was too high.
29. The study was a microcosm study.
30. The concentration of test material fluctuated too much during the exposure.
31. Too few test organisms were used in the test.
32. The dilution factor was ten.
33. There was no control treatment.
34. The pH was below 6.5.
35. The dilution water was chlorinated or "tap" water.
36. The dilution water contained an excessive amount of a chelating agent such as EDTA or other organic matter.
37. The acceptability of the dilution water is questionable because of its origin or content.
38. The dilution water was distilled or deionized water without addition of appropriate salts.
39. The measured test temperature fluctuated too much.
40. Neither raw data nor a clearly defined endpoint was reported.
41. The results were not adequately presented or could not be interpreted.
42. The results were only presented graphically.
43. The test was a chronic test and the concentration of test material was not measured.

Nevertheless, the things that the 1985 Guidelines say regarding other possible uses of test results with aquatic animals that should not be directly used in the derivation of a FAV or a FCV makes it clear that "unused" test results can be used in a criteria document, if appropriate. They should not be directly used in the derivation of a FAV or a FCV, but they can be used in other ways in some situations.

Further, several additional considerations were taken into account when results of aquatic toxicity tests on chloride were reviewed:

a. Review of results of toxicity tests on such pollutants as chloride should take additional considerations into account because chloride is different from most pollutants for which aquatic life criteria are derived. Chloride is very soluble in water, does not oxidize or reduce, is not volatile, does not degrade, does not sorb to test chambers, test organisms, food, or waste products, is not complexed by materials that commonly occur in water, is not

involved in a pH-dependent equilibrium in water, and does not precipitate in waters in which aquatic organisms commonly occur. Toxicity tests on most pollutants are subject to one or more of these potential complications and so it is more important to be concerned about test methodology when considering other pollutants.

b. Section IV.C of the 1985 Guidelines says: "Except for tests with saltwater annelids and mysids, results of acute tests during which the test organisms were fed should not be used, unless data indicate that the food did not affect the toxicity of the test material." Section XII.B of the 1985 Guidelines says: "On the basis of all available pertinent laboratory and field information, determine if the criterion is consistent with sound scientific evidence. If it is not, another criterion, either higher or lower, should be derived using appropriate modifications of these Guidelines." Appendix 1 below demonstrates that (i) results of acute toxicity tests on chloride should not be rejected just because the test organisms were fed during the tests and (ii) results of fed acute tests should be given preference over results of unfed acute tests when the test organisms are cladocerans.

c. If tests in a document using some species had acceptable control mortalities but other tests in the same document using other species had unacceptable control mortalities, the tests using species with unacceptable control mortalities were not used. The general policy is that tests in a document using different species should be evaluated on a species-by-species basis, not on a document-by-document basis.

d. Results of 96-hr toxicity tests using juvenile freshwater mussels were used if the methodology, etc., were acceptable, but results of tests using glochidia of freshwater mussels were not used. Acute (e.g., 96-h) toxicity tests using juvenile freshwater mussels are rather standard acute toxicity tests and can be evaluated using, for example, ASTM Standard E729. In contrast, acute toxicity tests using glochidia of freshwater mussels require special consideration because free-living glochidia must attach to a host in order to survive, and they typically attach within seconds to days. In addition, for a specific species and a specific toxicant, the glochidia 6-h EC50 might be substantially higher than the glochidia 24-h EC50. It is known that free-living glochidia of several species can remain viable for up to about ten days, depending on the species and on the percent viability that is considered acceptable. However, it is not known how fast glochidia of individual species usually attach to a host, and this is important because the glochidia EC50 for some toxicants and species is quite dependent on the duration of the toxicity test. Thus, a very important question is "What species-specific toxicity-test duration is ecologically relevant for glochidia?"

e. USEPA is tending more toward a weight-of-evidence approach to the derivation of aquatic life criteria than when the 1985 Guidelines were written. The 1985 Guidelines provided very little guidance concerning a variety of issues regarding the review of test results and a weight-of-evidence approach benefits from the consideration of more data; early rejection of test results is not a good idea when a weight-of-evidence approach is used.

f. When a potential problem is identified regarding the quality of the result of a toxicity test, it usually means that the test result is questionable, not that it is incorrect. It is certainly appropriate to note test results that are questionable, but is not necessarily appropriate to immediately reject a test result that is questionable.

g. There is uncertainty regarding the results of all scientific studies. Even detailed reports of the results of toxicity tests do not necessarily allow the identification of all potential problems, as demonstrated by the range of results that is sometimes found in round-robin tests. For example, the quality of food is usually unknown, regardless of what information

is given regarding the food used. (Even humans occasionally receive unhealthy food from grocery stores and restaurants.)

h. The most important issue regarding the quality of the result of a toxicity test is replication. Questions concerning the validity of a test result are best addressed by repeating the test, especially if the test is repeated in a different laboratory.

i. Test results should be rejected only for sound scientific reasons, not merely on the basis of suspicions or concerns.

j. If a test result is rejected, there is little impetus for anybody to repeat the test.

Appendix 1: Fed and Unfed Acute Tests on Chloride Salts

The table on the last page of this attachment compares the results of fed and unfed acute toxicity tests on NaCl, $CaCl_2$, $MgCl_2$, and KCl. The table contains all of the sets of data from each document that contained comparable acute toxicity data regarding three or more of the four salts listed above.

It is quite possible that different ions, especially chloride and potassium, have different modes of action, have different relative toxicities to different species, and possibly are affected differently by an increase in hardness, calcium, and/or magnesium. (It is possible to obtain an LC50 for NaCl or KCl in soft water, but it is not possible to obtain an LC50 for $CaCl_2$ or $MgCl_2$ in soft water because the test material increases hardness.)

The Mount et al. fed tests with C. dubia and D. magna are at the top of the table with the Biesinger and Christensen D. magna fed tests. The two fed tests with D. magna agree very well for NaCl and for $MgCl_2$ and are almost within a factor of two for $CaCl_2$ and KCl. For all four salts the B&C fed tests gave lower values than the Mount et al. fed tests. Also for all four salts, the B&C unfed tests gave lower results than the B&C fed tests. This might indicate that Mount et al. used a better food than B&C.

For all four salts C. dubia was more sensitive than D. magna in the Mount et al. fed tests. The five ratios are similar for C. dubia and D. magna, but the C. dubia ratio is always equal to or higher than the D. magna ratio. The ratios from the Mount et al. fed tests with C. dubia and D. magna are similar to the ratios from fed and unfed tests using the three species of fish at the bottom of the table:

Ca/Na (n=5): from 0.57 to 0.98 (High/Low = 1.7)
Mg/Na (n = 3): from 0.34 to 0.55 (H/L = 1.6)
K/Na (n = 5): from 0.11 to 0.25 (H/L = 2.3)
Ca/K (n = 5): from >2.19 to 7.12 (H/L = <3.25)
Ca/Mg (n = 3): from 1.78 to 1.87 (H/L = 1.1)

It is interesting that the five ratios are very similar for cladocerans and fishes. It is also interesting that there is no overlap among the Ca/Na, Mg/Na, and K/Na ratios and there is no overlap among the Ca/Na, Ca/K, and Ca/Mg ratios. The apparent toxicity of chloride depends on the other ions that are in the test solutions in a quite reproducible manner.

These data clearly indicate that results of fed tests on these four salts should not be rejected just because the test organisms were fed during the tests. In addition, the best data regarding D. magna are probably from the Mount et al. fed tests. The fed-unfed comparisons by Biesinger and Christensen and Mount et al. demonstrate that either better foods should be developed for cladocerans and/or cladocerans should be fed during all acute tests. If cladocerans are fed during acute toxicity tests, it is possible that the duration of the tests could be increased from 48 hr to 96 hr.

There are several considerations regarding the feeding of cladocerans during acute toxicity tests on NaCl, $CaCl_2$, $MgCl_2$, and KCl:

1. The better the food used, the more healthy the organisms will be at the beginning of the test.

2. Feeding during the test will reduce the possibility of stress due to lack of food.
3. Lower quality organisms and stressed organisms might be more sensitive to these four salts.
4. Because these four salts are not very toxic, the concentrations used in toxicity tests are so high that contamination by one or more heavy metals might be sufficient to stress or kill cladocerans during acute toxicity tests. If contamination by one or more metals causes stress or death, food might sorb or complex the metals and reduce their toxicities.
   a. Cladocerans are more sensitive to some metals than fathead minnows, bluegills, and mosquitofish.
   b. EDTA will complex and detoxify several heavy metals.
5. If food affects the results of acute toxicity tests, it also affects the acute-chronic ratio.
6. All species are fed during chronic toxicity tests.
7. Chloride is not likely to be sorbed or complexed by food.

	Acute Value (mg chloride/L)				Ratio of Acute Values				
	NaCl	CaCl2	MgCl2	KCl	Ca/Na	Mg/Na	K/Na	Ca/K	Ca/Mg
C. dubia Mount fed	1189	1169	655	300	0.98	0.55	0.25	3.90	1.78
D. magna Mount fed	2893	1770	990	314	0.61	0.34	0.11	5.64	1.78
D. magna B&C fed	2806	821	939	150	0.29	0.33	0.05	5.47	0.87
D. magna B&C unfed	2529	92	408	84	0.04	0.16	0.03	1.10	0.23
D. magna* K&R unfed	621	679		128	1.09		0.21	5.30	
D. magna Anderson unfed (64-hr tests)	2232	588	551	205	0.26	0.25	0.09	2.87	1.07
D. magna D&B unfed	3563	1920	2755		0.54	0.77			0.70
T. tubifex** Khangarot	1204	497		737	0.41		0.61	0.67	
Fathead minnow Mount fed	3876	2958	1579	418	0.76	0.41	0.11	7.08	1.87
Mosquitofish A&B unfed	9099	5196		<2378	0.57		<0.26	>2.19	
Bluegill Trama unfed	7853	6804		956	0.87		0.12	7.12	

* This acute value for NaCl is unusually low compared to the other acute values for D. magna.

** These results were considered not acceptable because test temperature was high and the acute value for D. magna in the same water was unusually low.

09MayChlorideCriteria.doc DRAFT 5-21-09
C. Stephan

Calculation of Aquatic Life Criteria for Chloride

These calculations are based on "Summary of Data concerning the Acute Toxicity of Sodium Chloride to Aquatic Animals" dated 5-21-09 and "Summary of Data concerning the Chronic Toxicity of Sodium Chloride to Aquatic Animals" dated 5-21-09. Except as noted (for example, see footnote a), these calculations are consistent with the 1985 Guidelines. GMAVs and SMAVs are normalized to hardness = 300 mg/L and sulfate = 65 mg/L. GMAVs and SMAVs are expressed as mg chloride/L.

Rank*	GMAV	Genus	Species	SMAV	SMACR
	-----	Agria	Damselfly, Agria sp.	-----	
29	17161	Anquilla	American eel, Anquilla rostrata	17160.6	
	16203	Cambarus	Crayfish, Cambarus sp.	16203.2	
	14897	Fundulus	Plains killifish, Fundulus kansae	14897.1	
	14843	Libellulidae**	Dragonfly, Libellulidae	14843.4	
	13453	Gasterosteus	Threespine stickleback, Gasterosteus aculeatus	13452.6	
	>11860	Poecilia	Guppy, Poecilia reticulata	>11860	
	-----	Carassius	Goldfish, Carassius auratus	-----	

1

9933	Gambusia	Mosquitofish, Gambusia affinis	9933.4	
9157	Lepomis	Green sunfish, Lepomis cyanellus	9974.9	
		Bluegill, Lepomis macrochirus	8406.5e	
8971	Notropis	Red shiner, Notropis lutrensis	8971.1	
8043	Oncorhynchus	Rainbow trout, Oncorhynchus mykiss	8042.6	7.308
7442	Ameiurus	Black bullhead, Ameiurus melas	7442.4	
-----	Erpobdella	Leech, Erpobdella punctata	----	
6515	Pimephales	Fathead minnow, Pimephales promelas	6515.3f	15.17h
6219	Tubifex	Tubificid worm, Tubifex tubifex	6218.6	
6111	Cyprinella	Bannerfin shiner, Cyprinella leedsi	6111	
6072	Chironomus	Midge, Chironomus attenuatus	-----	
		Midge, Chironomus dilutus	6072	

2

5897	Rana	Bullfrog (tadpole), Rana catesbeiana	5897
5444	Lumbriculus	Aquatic worm, Lumbriculus variegatus	5444
5078	Hyalella	Amphipod, Hyalella azteca	5077.7
-----	Asellus	Isopod, Asellus communis	-----
-----	Limnodrilus	Tubificid worm, Limnodrilus hoffmeisteri	-----
-----	Helisoma	Snail, Helisoma campanulata	-----
4686	Pseudacris	Chorus frog, Pseudacris sp.	4686.0
-----	Gammarus	Amphipod, Gammarus pseudolimnaeus	-----
-----	Crangonyx	Amphipod, Crangonyx sp.	-----
-----	Nemoura	Stonefly, Nemoura trispinosa	-----
-----	Lepidostoma	Caddisfly, Lepidostoma sp.	-----
-----	Parapsyche	Caddisfly, Parapsyche sp.	-----

	4369	Nephelopsis	Leech, Nephelopsis obscura	4369	
	3946	Diaptomus	Copepod, Diaptomus clavipes	3946.1	
	3891	Lirceus	Isopod, Lirceus fontinalis	3890.7	
	3728	Gyraulus	Snail, Gyraulus circumstriatus	-----	
			Snail, Gyraulus parvus	3727.7	
	3350	Physa	Snail, Physa gyrina	3350.0	
			Snail, Physa heterostropha	-----	
	3086	Villosa	Mussel, Villosa delumbis	3821.1	
			Mussel, Villosa iris	2491.6	
4	2835	Lampsilis	Mussel, Lampsilis fasciola	2907.1	
			Mussel, Lampsilis siliquoidea	2764.4	
3	2326	Daphnia	Cladoceran, Daphnia ambigua	1649.7	4.148

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			Cladoceran, Daphnia magna	3773.1d	1.974
			Cladoceran, Daphnia pulex	2020.5g	3.952
2	1542	Ceriodaphnia	Cladoceran, Ceriodaphnia dubia	1542.3c	>2.470i
1	1128	Sphaerium	Fingernail clam, Sphaerium simile	1127.9	
			Fingernail clam, Sphaerium tenue	-----	

* A "greater than" acute value for the brown trout (Salmo trutta) is not in this table because it is too low to be a useful "greater than" value.
** Name of family, not name of genus.

a. Section IV.I of the 1985 Guidelines says: "For each species for which at least one acute value is available, the Species Mean Acute Value should be calculated as the geometric mean of the results of all flow-through tests in which the concentrations of test material were measured. For a species for which no such result is available, the SMAV should be calculated as the geometric mean of all available acute values, i.e., results of flow-through tests in which the concentrations were not measured and results of static and renewal tests based on initial concentrations (nominal concentrations are acceptable for most test materials if measured concentrations are not available) of test material." The guidance presented in section IV.I of the 1985 Guidelines seems inappropriate for chloride because chloride is different from most pollutants for which aquatic life criteria are derived. Chloride is very soluble in water, does not oxidize or reduce, is not volatile, does not degrade, does not sorb to test chambers, test organisms, food, or waste products, is not complexed by materials that commonly occur in water, is not involved in a pH-dependent equilibrium in water, and does not precipitate in waters in which aquatic organisms commonly occur.
   i. For chloride, as long as the concentration of dissolved oxygen is sufficiently high, it seems appropriate to give static and renewal acute tests the same weight as flow-through acute tests in the derivation of the SMAV for a species.
   ii. For chloride, it seems inappropriate to give measured acute tests a weight of 1 and unmeasured acute tests a weight of 0 when both are available for the derivation of the SMAV for a species. For example, if there is a choice between one measured acute test on chloride and three unmeasured acute tests in three different laboratories, the three tests are probably preferable to the one test, but if the choice is between one measured acute test and two unmeasured acute tests in two different laboratories, the one test is probably preferable. Thus, for a species for which both measured and unmeasured acute tests are available for chloride, it seems appropriate to give measured acute tests a weight of 2.5 and unmeasured acute tests a weight of 1 when the SMAV is calculated.

5

The conclusions described above concerning chloride were developed during discussions among Charles Delos, Charles Stephan, and Glen Thursby. For other pollutants, different conclusions concerning the relative merits of static, renewal, and flow-through acute toxicity tests and the relative merits of measured and unmeasured acute toxicity tests are likely to be more appropriate.

b. For Ceriodaphnia dubia, the acute values from Hoke et al. (1992) are considered outliers. The geometric mean is 1468.1 for Mount et al. (1997), 1790.2 for U.S. EPA (1991), 1998.2 for WISLOH (2007), and 1457.3 for GLEC and INHS (2008).
SMAV = antilog ([log 1468.1 + log 1790.2 + log 1998.2 + log 1863.6 + 2.5(log 1311.1) + 2.5(log 1457.3)]/9) = 1542.3.

c. For Daphnia magna, the values of 3815.5 (Mount et al. 1997), <2785.1, (Anderson 1946), 2439.7 (Anderson 1948), and 3025.9 and 3357.4 (Biesinger and Christensen 1972) were not used. A geometric mean of 3906.7 was calculated from the limits given by Seymour et al. (1997). The geometric mean is 3208.8 for Hoke et al. (1992) and is 4054.2 for Davies and Hall (2007). The SMAV is 3773.1, which is the geometric mean of 3208.8, 5068.2, 3906.7, 2242.3, 4749.6, 3968.5, and 4054.2.

d. Bluegill: SMAV = antilog ([2.5(log 7702.3) + log 10461.6]/3.5) = 8406.5.

e. Fathead minnow: SMAV = antilog([log 2833.9 + 2.5(log 8665.1) + 2.5(log 8225.2) + log 5112.0 + log 5226.3]/8) = 6515.3.

f. Daphnia pulex: SMAV = antilog([2.5(log 1938.8) + log 2240.3]/3.5) = 2020.5.

g. Not used in calculations because, even though the acute and chronic tests were in the same document, different dilution waters were used in the tests.

h. The SMACR for Ceriodaphnia dubia is the geometric mean of 1.508, >3.841, and 2.601.

FAV = 1364 mg chloride/L

CMC = FAV/2 = 682.0 mg chloride/L

The five SMACRs (7.308, 4.148, 1.974, 3.952, and >2.438) that are available for use in calculations result in three GMACRs:

7.308	Oncorhynchus
3.187	Daphnia
>2.470	Ceriodaphnia

The 1985 Guidelines require ACRs for species in three different families, but Daphnia and Ceriodaphnia are in the same family. However, even though the ACR for the fathead minnow should not be used in calculations because the acute and chronic tests using the fathead minnow were

performed in different dilution waters, the fathead minnow ACR can be considered a qualitative ACR and used to satisfy the MDRs because chloride is not likely to be complexed or sorbed or detoxified by organic or inorganic constituents of the dilution water.

The GMACRs for Oncorhynchus and Daphnia are consistent with the "greater than" GMACR for Ceriodaphnia and the GMACRs are within a factor of ten. Therefore, the Final ACR = 4.826, which is the geometric mean of the GMARCs for Oncorhynchus and Daphnia. This would give FCV = FAV/FACR = (1364 mg chloride/L)/4.826 = 282.6 mg chloride/L. However, this approach is contraindicated because the GMACRs (including the unused GMACR for Pimephales) indicate that the GMACR increases as the GMAV increases.

The GMACR for Daphnia is consistent with the "greater than" GMACR for Ceriodaphnia, so the GMACR for Daphnia can be used as the FACR. Therefore, FACR = 3.187 and FCV = FAV/FACR = (1364 mg chloride/L)/3.187 = 428.0 mg chloride/L.

CCC = FCV = 428.0 mg chloride/L.

The CMC and CCC given above are for hardness = 300 mg/L and sulfate = 65 mg/L. The equation that was used to normalize the acute values can be used to make the CMC and CCC dependent on hardness and sulfate. The resulting equations for the CMC and CCC are:

$$\text{CMC} = (682.0 \text{ mg chloride/L})\,(\text{hardness}/300)^{0.205797}\,(\text{sulfate}/65)^{-0.07452}$$
$$= (287.8 \text{ mg chloride/L})\,(\text{hardness})^{0.205797}\,(\text{sulfate})^{-0.07452}$$

At hardness = 300 mg/L and sulfate = 65 mg/L, CMC = 682.0 mg chloride/L.

$$\text{CCC} = (428.0 \text{ mg chloride/L})\,(\text{hardness}/300)^{0.205797}\,(\text{sulfate}/65)^{-0.07452}$$
$$= (180.6 \text{ mg chloride/L})\,(\text{hardness})^{0.205797}\,(\text{sulfate})^{-0.07452}$$

At hardness = 300 mg/L and sulfate = 65 mg/L, CCC = 428.0 mg chloride/L.

Derivation of an Alternative FCV

Even though the above derivation of FCV = 378.1 mg chloride/L follows the procedure described in the 1985 Guidelines, there is an alternative approach that is justified on the basis of the "good science" clause in section XII.B of the 1985 Guidelines. This approach is based on the fact that the four low SMACRs for chloride were obtained with invertebrates, whereas the high SMACR was obtained with a vertebrate. This can be interpreted to mean that vertebrates have a higher ACR, on the average, than invertebrates, especially because the qualitative ACR for the fathead minnow is 15.17. Therefore, a vertebrate ACR and an invertebrate ACR can be used with the GMAVs to calculate a predicted Genus Mean Chronic Value for each genus, and then a FCV can be calculated directly from the predicted GMCVs. This approach calculates and uses a predicted chronic value for each genus for which an acute value is available and probably does a better job of taking into account the chronic sensitivities of both vertebrates and invertebrates to chloride. The relevant data and calculations are presented on the next few pages.

The FACR of 3.187 derived above was derived from all of the acceptable ACRs for invertebrates. The only acceptable ACR for a vertebrate is 7.308. A predicted GMCV can be calculated from each GMAV by using 3.187 as the invertebrate ACR and using 7.308 as the vertebrate ACR.

Table of predicted GMCVs for Chloride

(GMAVs and pGMCVs are expressed as mg chloride/L)
(ranked according to predicted GMCVs)

Rank	GMAV	Genus	Species	pGMCV
	-----	Agria	Damselfly, Agria sp.	-----
29	16203	Cambarus	Crayfish, Cambarus sp.	5084
	14843	Libellulidae*	Dragonfly, Libellulidae	4657
	17161	Anquilla	American eel, Anquilla rostrata	2348

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14897	Fundulus	Plains killifish, Fundulus kansae	2038
6219	Tubifex	Tubificid worm, Tubifex tubifex	1951
6072	Chironomus	Midge, Chironomus attenuatus	1905
		Midge, Chironomus dilutus	
-----	Erpobdella	Leech, Erpobdella punctata	-----
13453	Gasterosteus	Threespine stickleback, Gasterosteus aculeatus	1841
-----	Carassius	Goldfish, Carassius auratus	-----
5444	Lumbriculus	Aquatic worm, Lumbriculus variegatus	1708
>11860	Poecilia	Guppy, Poecilia reticulata	>1663
5078	Hyalella	Amphipod, Hyalella azteca	1593
----	Asellus	Isopod, Asellus communis	-----
-----	Limnodrilus	Tubificid worm, Limnodrilus hoffmeisteri	-----

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-----	Helisoma	Snail, Helisoma campanulata	-----
4369	Nephelopsis	Leech, Nephelopsis obscura	1371
9933	Gambusia	Mosquitofish, Gambusia affinis	1359
-----	Gammarus	Amphipod, Gammarus pseudolimnaeus	-----
-----	Crangonyx	Amphipod, Crangonyx sp.	-----
-----	Nemoura	Stonefly, Nemoura trispinosa	-----
-----	Lepidostoma	Caddisfly, Lepidostoma sp.	-----
-----	Parapsyche	Caddisfly, Parapsyche sp.	-----
9157	Lepomis	Green sunfish, Lepomis cyanellus	1253
		Bluegill, Lepomis macrochirus	
3946	Diaptomus	Copepod, Diaptomus clavipes	1238
8971	Notropis	Red shiner, Notropis lutrensis	1228

3891	Lirceus	Isopod, Lirceus fontinalis	1221
3728	Gyraulus	Snail, Gyraulus circumstriatus	1170
		Snail, Guraulus parvus	
8043	Oncorhynchus	Rainbow trout, Oncorhynchus mykiss	1101
3350	Physa	Snail, Physa heterostropha	1051
		Snail, Physa gyrina	
7442	Ameiurus	Black bullhead, Ameiurus melas	1018
3086	Villosa	Mussel, Villosa delumbis	968.3
		Mussel, Villosa iris	
6515	Pimephales	Fathead minnow, Pimephales promelas	891.5
2835	Lampsilis	Mussel, Lampsilis fasciola	889.6
		Mussel, Lampsilis siliquoidea	

	6111	Cyprinella	Bannerfin shiner, Cyprinella leedsi	836.2
	5897	Rana	Bullfrog (tadpole), Rana catesbeiana	806.9
4	2326	Daphnia	Cladoceran, Daphnia ambigua	729.8
			Cladoceran, Daphnia magna	
			Cladoceran, Daphnia pulex	
3	4686	Pseudacris	Chorus frog, Pseudacris sp.	641.2
2	1542	Ceriodaphnia	Cladoceran, Ceriodaphnia dubia	483.8
1	1128	Sphaerium	Fingernail clam, Sphaerium simile	353.9
			Fingernail clam, Sphaerium tenue	

* Name of family, not name of genus.

FCV based on predicted GMCVs = 421.5 mg chloride/L at hardness = 300 mg/L and sulfate = 65 mg/L.

$$\text{CCC} = (421.5 \text{ mg chloride/L})\ (\text{hardness}/300)^{0.205797}\ (\text{sulfate}/65)^{-0.07452}$$
$$= (177.87 \text{ mg chloride/L})\ (\text{hardness})^{0.205797}\ (\text{sulfate})^{-0.07452}$$

At hardness = 300 mg/L and sulfate = 65 mg/L, CCC = 421.5 mg chloride/L.

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C. Stephan

Results of Literature Search concerning the Toxicity of Chloride to Aquatic Animals

USEPA searched the ECOTOX database and its extensive literature holdings compiled from monthly searches of online abstracting services (American Chemistry Society's STN-CAS and Cambridge Scientific Abstracts), manual searches of tables of contents from high-impact journals, and the bibliographies of review articles. The targets of these searches are documents containing information regarding lethal and sublethal adverse effects on, and bioaccumulation by, freshwater and/or saltwater aquatic plants and animals, as well as chronic feeding studies and long-term field studies using wildlife species that regularly consume aquatic organisms. To ensure comprehensive coverage of the literature, a chloride-specific search was also conducted using STN-CAS, Cambridge Scientific Abstract, Dissertation Abstracts, Science Direct, and Toxline. USEPA also considered some information from other sources.

The following table lists documents that contain data regarding the toxicity of chloride to aquatic animals. The table also contains various documents that were cited in various sources as possibly containing data regarding the toxicity of chloride to aquatic animals. In addition, some documents are cited because they might aid in the interpretation of a document that contains potentially useful results of toxicity tests on chloride. Many documents cited in "Unused Data" on pages 6 and 7 of U.S. EPA (1988) are not listed here. A number in parentheses at the end of a citation is the AQUIRE reference number of the document.

Comments are intended to be consistent with "Description of the Review of Results of Toxicity Tests on Chloride" dated 5-21-09.

The only test materials that are addressed in the following table are calcium chloride, magnesium chloride, potassium chloride, and sodium chloride. Interpreting results obtained with these four test materials might not be straightforward, however, because, for example, potassium and magnesium ions might be sufficiently toxic to impact the results of tests on their chloride salts.

Document	Comment
Academy of Natural Sciences. 1960. The Sensitivity of Aquatic Life to Certain Chemicals Commonly Found in Industrial Wastes. Final Report No. RG-3965(C2R1). Academy of Natural Sciences, Philadelphia, PA. (A: 5683)	Results of acute tests on chloride are acceptable. (7-9 mg Cl/L in dilution water)
Adelman, I.R., and L.L. Smith, Jr. 1976a. Standard Test Fish Development. Part I. Fathead Minnows (Pimephales promelas) and Goldfish (Carassius auratus) as Standard Fish in Bioassays and Their Reaction to Potential Reference Toxicants. EPA-600/3-76/061a.	Results are not acceptable because potassium phosphate was used to buffer pH; the goldfish had tapeworms. (Fish were fed during tests.)
Adelman, I.R., and L.L. Smith, Jr. 1976b. Fathead Minnows (Pimephales promelas) and Goldfish (Carassius auratus) as Standard Fish in Bioassays and Their Reaction to Potential Reference Toxicants. J. Fish. Res. Bd. Can. 33:209-214.	Same data as Adelman and Smith 1976a.

Adelman, I.R., L.L. Smith, Jr., and G.D. Siesennop. 1976. Acute Toxicity of Sodium Chloride, Pentachlorophenol, Guthion, and Hexavalent Chromium to Fathead Minnows (Pimephales promelas) and Goldfish (Carassius auratus). J. Fish. Res. Bd. Can. 33:203-208.	Same data as Adelman and Smith 1976a.
Al-Daham, N.K., and M.N. Bhatti. 1977. Salinity Tolerance of Gambusia affinis (Baird & Girard) and Heteropneustes fossilis (Bloch). J. Fish Biol. 11:309-313.	Results of acute tests on chloride using G. affinis are acceptable. H. fossilis is not resident.
Almeida, A.M., et al. 2005. Transformation of Tobacco with an Arabidopsis thaliana gene involved in Trehalose Biosynthesis Increases Tolerance to Several Abiotic Stresses. Euphyutica 146:165-176.	Results are not acceptable because they concern tolerance of tobacco to osmotic stress.
Anderson, B.G. 1944. The Toxicity Thresholds of Various Substances Found in Industrial Wastes As Determined by the Use of Daphnia magna. Sewage Works J. 16(6):1156-1165. (A: 2171)	Results are not acceptable because the duration was too short.
Anderson, B.G. 1946. The Toxicity Thresholds of Various Sodium Salts Determined by the Use of Daphnia magna. Sewage Works J. 18(1):82-87. (A: 2130)	Results of acute tests on chloride are acceptable.
Anderson, B.G. 1948. The Apparent Thresholds of Toxicity of Daphnia magna for Chlorides of Various Metals When Added to Lake Erie Water. Trans. Amer. Fish. Soc. 78:96-113.	Results of acute tests on chloride are acceptable, but must be footnoted as 64-hr tests.
Anderson, K.B. 1977. Musculium Transversum in the Illinois River and an Acute Potassium Bioassay Method for the Species. PB-288088. National Technical Information Service, Springfield, VA.	Results of acute and chronic tests on KCl.
Anderson, K.B., et al. 1978. Rapid Assessment of Water Quality, Using the Fingernail Clam, Musculium transversum. UILU-WRC-78-0133. University of Illinois at Urbana-Champaign, Water Resources Center.	Results of acute and chronic tests on KCl.
Anonymous. Toxicity Studies in Fish Using Thirteen Chemicals in Sewer Effluent. EPA/OTS. Doc #86-870000533; Microfische number: NTIS/OTS0513611.	Results are not acceptable because the test was on hydrochloric acid in sewer effluent.
Aragao, M.A., and E.V. Pereira. 2003. Sensitivity of Ceriodaphnia dubia of Different Ages to Sodium Chloride. Bull. Environ. Contam. Toxicol. 70:1247-1250.	These are chronic tests.
Arambasic, M.B., S. Bjelic, and G. Subakov. 1995. Acute Toxicity of Heavy Metals (Copper, Lead, Zinc), Phenol and Sodium on Allium cepa L., Lepidium sativum L. and Daphnia magna St.: Comparative Investigations and the Practical Applications. Water Res. 29(2):497-503. (A: 13712)	Results are not acceptable because an unusual dilution water was used.
Baillieul, M., et al. 1993. Assessment of the Toxicity of an Industrial Effluent with a Two-generation Reproduction Test using Daphnia magna. Sci. Total Environ. Supplement:1159-1164.	Results are not acceptable because tests were on an effluent and cadmium chloride.
Baudouin, M.F., and P. Scoppa. 1974. Acute Toxicity of Various Metals to Freshwater Zooplankton. Bull. Environ. Contam. Toxicol. 12:745-751.	Results are not acceptable because the test species are not resident.

Beak International Inc. 1999. Ecotoxicity Test Results. Unpublished report for M.S. Evans.	Evans and Frick (2001) say that this contains results of 7-day tests with fathead minnows and 7- and 27-day tests with rainbow trout. Evans has not replied to requests for this document. It appears that no results would be acceptable.
Benbow, M.E., and R.W. Merritt. 2004. Road-salt Toxicity of Select Michigan Wetland Macroinvertebrates under Different Testing Conditions. Wetlands 24:68-76.	Results are not acceptable because the test material was road salt.
Bernot, R.J., M.A. Brueseke, M.A. Evans-White, and G.A. Lamberti. 2005. Acute and Chronic Toxicity of Imidazolium-based Ionic Liquids on Daphnia magna. Environ. Toxicol. Chem. 24:87-92 (A: 80861)	Results of acute tests on KCl.
BHP Billiton Diamonds. 2008. Site-specific Water Quality Objective for Chloride.	Results are not acceptable because too little information is given concerning methodology.
Biesinger, K.E., and G.M. Christensen. 1972. Effects of Various Metals on Survival, Growth, Reproduction, and Metabolism of Daphnia magna. J. Fish. Res. Bd. Canada 29:1691-1700 (A: 2022)	Results of acute tests on chloride are acceptable. Contains comparisons of fed and unfed acute tests. Also contains chronic tests.
Birge, W.J., J.A. Black, A.G. Westerman, and J.E. Hudson. 1980. Aquatic Toxicity Tests on Inorganic Elements Occurring in Oil Shale. IN: Oil Shale Symposium, C. Gale (ed.), USEPA. PB80-221435. pp. 519-534.	Chronic test on magnesium chloride.
Birge, W.J., J.A. Black, A.G. Westerman, T.M Short, S.B. Taylor, D.M. Bruser, and E.D. Wallingford. 1985. Recommendations on Numerical Values for Regulating Iron and Chloride Concentrations for the Purpose of Protecting Warmwater Species of Aquatic Life in the Commonwealth of Kentucky.	Results of acute tests on chloride are acceptable, except when chloride was a component of an effluent. Also contains chronic tests.
Black, H.H. 1950. Federal Industrial Pollution Studies. Sew. Indus. Wastes 22:1049-1053.	No results of toxicity tests.
Blasius, B.J., and R.W. Merritt. 2002. Field and Laboratory Investigations on the Effects of Road Salt (NaCl) on Stream Macroinvertebrate Communities. Environ. Pollut. 120:219-231.	Results are not acceptable because the test material was road salt.
Borgmann, U. 1996. Systematic Analysis of Aqueous Ion Requirements of Hyalella azteca: A Standard Artificial Medium Including the Essential Bromide Ion. Arch. Environ. Contam. Toxicol. 30:356-363.	No results of toxicity tests.
Boutet, C., and C. Chaisemartin. 1973. Specific Toxic Properties of Metal Salts of Austropotamobius pallipes pallipes and Orconectes limosus. C.R. Soc. Biol 167:1933-1938. (English translation used)	Results of acute, but not chronic, tests on MgCl2 and KCl using O. limosus are acceptable. A. pallipes is not resident.
Bright, D.A., and J. Addison. 2002. Derivation of Matrix Soil Standards for Salt under the British Columbia Contaminated Sites Regulation. Royal Roads University, British Columbia, Canada.	Results are not acceptable because they are secondary information.
Bringoff, R.B., et al. 2007. Acute and Chronic Toxicity of Technical-grade Pesticides to Glochidia and Juveniles of Freshwater Mussels (Unionidae). Environ. Toxicol. Chem. 26:2086-2093.	Results of tests on NaCl using juveniles are acceptable, but results of tests using glochidia are not acceptable.

Buckley, J.A., K.P. Rustagi, and J.D. Laughlin. 1996. Response of Lemna minor to Sodium Chloride and a Statistical Analysis of Continuous Measurements for EC50 and 95% Confidence Limits Calculation. Bull. Environ. Contam. Toxicol. 57:1003-1008.	Results are not acceptable because the test organisms were plants.
Burton, G.A., Jr., et al. 1996. Interlaboratory Study of Precision: Hyalella azteca and Chironomus tentans Freshwater Sediment Toxicity Assays. Environ. Toxicol. Chem. 15:1335-1343.	Results of acute tests on KCl.
Cairns, J., and A. Scheier. 1959. The Relationship of Bluegill Sunfish Body Size to its Tolerance for Some Common Chemicals. Proc.13th Ind. Waste Conf., Purdue Univ, Eng. Bull 43:243-252. (A: 930)	Results of acute tests on calcium chloride.
Calleja, M.C., G. Persoone, and P. Geladi. 1994. Comparative Acute Toxicity of the First 50 Multicentre Evaluation of In Vitro Cytotoxicity Chemicals to Aquatic Non-vertebrates. Arch. Environ. Contam. Toxicol. 26:69-78.	Results are not acceptable because the duration was too short.
Camargo, J.A., and J.V. Tarazona. 1991. Short-term Toxicity of Fluoride Ion (F^-) in Soft Water to Rainbow Trout and Brown Trout. Chemosphere 22:605-611.	Results of acute tests on chloride are acceptable.
Cant, B., K. James, and T. Ryan. 2003. Salt Impact Model.	No results of toxicity tests.
Chadwick, M.A., and J.W. Feminella. 2001. Influence of Salinity and Temperature on the Growth and Production of a Freshwater Mayfly in the Lower Mobile River, Alabama. Limnol. Oceanogr. 46:532-542.	Results are not acceptable because too few test organisms were used and the test material was an aquarium salt.
Chervinski, J. 1983. Salinity Tolerance of the Mosquito Fish, Gambusia affinis (Baird and Girard). J. Fish Biol. 22:9-11.	Results are not acceptable because all treatments were mixtures of fresh water and seawater.
Clemens, H.P., and W.H. Jones. 1954. Toxicity of Brine Water from Oil Wells. Trans. Amer. Fish. Soc. 84:97-109.	Results of acute tests on chloride are acceptable.
Clunie, P., T. Ryan, K. James, and B. Cant. 2002. Implications for Rivers from Salinity Hazards: Scoping Study.	Results are not acceptable because they are secondary information. Ranges within fishes and within invertebrates are wide.
Cooney, J.D., et al. 1992. Effects of Environmental and Experimental Design Factors on Culturing and Toxicity Testing on Ceriodaphnia dubia. Environ. Toxicol. Chem. 11:839-850.	Chronic tests on NaCl using Ceriodaphnia dubia.
Cowgill, U.M. 1987. Critical Analysis of Factors Affecting the Sensitivity of Zooplankton and the Reproducibility of Toxicity Test Results. Wat. Res. 21:1453-1462.	Some results are acceptable.
Cowgill, U.M., and D.P. Milazzo. 1990. The Sensitivity of Two Cladocerans to Water Quality Variables: Salinity and Hardness. Arch. Hydrobiol. 120:185-196.	Results of C. dubia acute tests on NaCl are acceptable. Results of other acute tests are not acceptable because the calcium chloride is from a brine well. Also contains chronic tests.
Cowgill, U.M., and D.P. Milazzo. 1991a. The Response of the Three Brood Ceriodaphnia Test to Fifteen Formulations and Pure Compounds in Common Use. Arch. Environ. Contam. Toxicol. 21:35-40.	No toxicity tests on chlorides.
Cowgill, U.M., and D.P. Milazzo. 1991b. The Sensitivity of Two Cladocerans to Water Quality Variables: Salinity <467 mg NaCl/L and Hardness <200 mg $CaCO_3$/L. Arch. Environ. Contam. Toxicol. 21:218-223.	These are chronic tests.

Cressman, C.P. III, and P.L. Williams. 1997. Reference Toxicants for Toxicity Testing Using Caenorhabditis elegans in Aquatic Media. IN: Environmental Toxicology and Risk Assessment: Modeling and Risk Assessment (Sixth Volume), Dwyer, F.J., T.R. Doane, and M.L. Hinman (eds), ASTM.	Results are not acceptable because the tests used a non-aquatic nematode and the dilution water was a broth.
Crisinel, A., et al. 1994. Cyst-based Ecotoxicological Tests Using Anostracans: Comparison of Two Species of Streptocephalus. Environ. Toxicol. Water Qual. 9:317-326.	Results are not acceptable because duration was too short.
Cronkite, D.L., A.N. Gustafson, and B.F. Bauer. 1985. Role of Protein Synthesis and Ninhydrin-Positive Substances in Acclimation of Paramecium tetraurelia to High NaCl. J. Exp. Zool. 233:21-28 (A: 19928)	Results are not acceptable because these studies concerned acclimation.
Crowther, R.A., and H.B.N. Hynes. 1977. The Effect of Road Deicing Salt on the Drift of Stream Benthos. Environ. Pollut. 14:113-126.	Results are not acceptable because these studies concerned drift.
Cruikshank, D.R. 1991. Whole Lake Additions in the Experimental Lakes Area, 1986-1989. Can. Data Rept. Fish. Aquat. Sci. No. 816.	Results are not acceptable because hydrochloric acid was added to a lake.
Davies, T.D., and K.J. Hall. 2007. Importance of Calcium in Modifying the Acute Toxicity of Sodium Sulphate to Hyalella azteca and Daphnia magna. Environ. Toxicol. Chem. 26:1243-1247.	Results of acute tests on chloride are acceptable. KCl is much more toxic than NaCl to D. magna.
DeGraeve, G.M., J.D. Cooney, B.H. Marsh, T.L. Pollock, and N.G. Reichenbach. 1992. Variability in the Performance of the 7-d Ceriodaphnia dubia Survival and Reproduction Test: an Intra- and Interlaboratory Study. Environ. Toxicol. Chem. 11:851-866.	Chronic tests on sodium chloride using C. dubia.
De Jong, L.E. 1965. Tolerance of Chlorella vulgaris for Metallic and Non-metallic ions. Antonie Leeuwenhoek 31:301-313.	Results are not acceptable because the test organisms were plants.
Diamond, J.M, E.L. Winchester, D.G. Mackler, and D. Gruber. 1992. Use of the Mayfly Stenonema modestum (Heptageniidae) in Subacute Toxicity Assessments. Environ. Toxicol. Chem. 11:415-425.	Chronic tests on chloride using a mayfly, the fathead minnow, and Ceriodaphnia dubia.
Diamond, J., et al. 2005. Effects of Pulsed Contaminant Exposures on Early Life Stages of the Fathead Minnow. Arch. Environ. Contam. Toxicol. 49:511-519.	Results are not acceptable because they concern the effect of pulsed exposures on the 7-d subchronic test.
Dodson, S.I., and D.G. Frey. 2001. Cladocera and Other Branchiopoda. IN: Ecology and Classification of North American Freshwater Invertebrates. 2nd ed. J.H. Thorp and A.P Covich, ed.	Results are not acceptable because they are secondary information.
Dowden, B.F. 1960. Cumulative Toxicities of Some Inorganic Salts to Daphnia magna as Determined by Median Tolerance Limits. Proc. La. Acad. Sci. 23:77-85. (A: 2465) [This was mistakenly cited in USEPA 1988 as "Dowden 1961".]	Results are not acceptable because the dilution water was from a drainpipe-fed lake on the LSU campus.
Dowden, B.F. 1962. A Simple Solution for the Support of Aquatic Test Animals. La. Acad. Sci. 25:80-85.	No results of toxicity tests.
Dowden, B.F., and H.J. Bennett. 1965. Toxicity of Selected Chemicals to Certain Animals. J. Water Pollut. Control Fed. 37(9):1308-1316. (A: 915)	Some results are acceptable, but other results are not acceptable because duration was too long or too short or the dilution water was from a drainpipe-fed lake on the LSU campus.
Dunlop, J., G. McGregor, and N. Horrigan. 2005. Potential Impacts of Salinity and Turbidity in Riverine Ecosystems.	No results of toxicity tests.

Dunlop, J.E., et al. 2007. Effect of Spatial Variation on Salinity Tolerance of Macroinvertebrates in Eastern Australia and Implications for Ecosystem Protection Trigger Values. Environ. Pollut. (In press).	Results are not acceptable because the treatments were prepared by dissolving a synthetic sea salt in distilled water.
Dvorak, M., J. Kouiril, and I. Prikryl. 1985. The Tolerance of Early Wels Fry to Preventive Baths in NaCl and Formalin Solutions. Prace Vurh Vodnany 14:36-42.	Results are not acceptable because duration was too short.
Edmister, J.O., and J.W. Gray. 1948. The Toxicity Thresholds for Three Chlorides and Three Acids to the Fry of Whitefish (Coregonus clupeaformis) and Yellow Pickerel (Stizostedion v. vitreum). Prog. Fish-Cult. 10:105-106	Results are not acceptable because no information is given concerning methodology.
Environ International Corp. 2009. Chloride Toxicity Test Results.	Results of acute tests on chloride are acceptable.
Environment Canada. 1994. The Comparative Toxicity of Crude and Refined Oils to Daphnia magna. Report No. EE-152.	Results are not acceptable because they are secondary information.
Evans, M., and C. Frick. 2001. The Effects of Road Salts on Aquatic Ecosystems. Environment Canada, National Water Research Institute, Burlington/Saskatoon, Canada.	Results are not acceptable because they are secondary information.
Fairchild, E.J. 1955. Low Dissolved Oxygen: Effect Upon the Toxicity of Certain Inorganic Salts to the Aquatic Invertebrate Daphnia magna. Louisiana State University Engineering Experiment Station Bulletin 51:95-102.	Results are not acceptable because duration was too long.
Fairchild, E.J. 1954. Effects of Lowered Oxygen Tension on the Susceptibility of Daphnia magna to Certain Inorganic Salts. Thesis. Louisiana State University, Baton Rouge, LA.	Results are not acceptable because duration was too long.
Fisher, S.W., P. Stromberg, K.A. Bruner, and L.D. Boulet. 1991. Molluscicidal Activity of Potassium to the Zebra Mussel, Dreissena polymorphia: Toxicity and Mode of Action. Aquat. Toxicol. 20:219-234.	Results are not acceptable because duration was too short.
Fisher, S.W., et al. 1992. The Toxicity of Potassium Chloride to Zebra Mussel Veligers and Select Nontarget Organisms. J. Shellfish Res. 11(1):225.	Non-standard tests were performed with zebra mussels; no results were given for other species.
Galat, D.L., and R. Robinson. 1983. Predicted Effects of Increasing Salinity on the Crustacean Zooplankton Community of Pyramid Lake, Nevada. Hydrobiologia 105:115-131.	Results are not acceptable because the treatments were prepared by concentrating lake water.
Garibay, R., and S. Hall. 2004. Chloride Threshold Recommendations for the Protection of Aquatic Life in the Upper Santa Clara River. The Advent Group, Brentwood, TN. Attachment 8: NaCl Testing with Three-Spined Stickleback Attachment 9: NaCl Testing with Chorus Frog Tadpoles	Results of acute tests on chloride are acceptable.
Garrey, W.E. 1916. The Resistance of Fresh Water Fish to Changes in Osmotic and Chemical Conditions. Am. J. Physiol. 39:313-329.	Results are not acceptable because these were non-standard tests in distilled water.
Geddes, M.C. 1979. Salinity Tolerance and Osmotic Behaviour of European Carp (Cyprinus carpio L.) from the River Murray, Australia. Royal Society of South Australia 103:185-189.	Results are not acceptable because the treatments were prepared by adding seawater to dechlorinated tap water.
Geilenkirchen,W.L.M. 1964. The Action and Interaction of Calcium and Alkali Chlorides on Eggs of Lymnaea stagnalis and Their Chemical Interpretation. Exp. Cell Res. 34:463-487.	Results are not acceptable because these were non-standard tests in distilled water.

Ghosh, A.K., and R.N. Pal. 1969. Toxicity of Four Therapeutic Compounds to Fry of Indian Major Carps. Fish. Technol. 6:120-123.	Results are not acceptable because the test species are not resident.
GLEC and INHS. 2008. Acute Toxicity of Chloride to Select Freshwater Invertebrates. Final Draft Report to USEPA. 9-26-08.	Results of acute tests on chloride are acceptable.
Goetsch, P.A., and C.G. Palmer. 1997. Salinity Tolerances of Selected Macroinvertebrates of the Sabie River, Kruger National Park, South Africa. Arch. Environ. Contam. Toxicol. 32(1):32-41. (A: 17845)	Results are not acceptable because industrial-grade NaCl was used, organisms were not identified to species and not obtained in North America, some control mortalities were >10%, and the field-collected organisms were not adequately acclimated.
Gonzalez-Moreno, S., J. Gomez-Barrera, H. Perales, and R. Moreno-Sanchez. 1997. Multiple Effects of Salinity on Photosynthesis of the Protist Euglena gracilis. Physiologia Plantarum 101:777-786.	Results are not acceptable because the test species is a plant.
Grizzle, J.M., and A.C. Mauldin II. 1995. Effect of Calcium on Acute Toxicity of Sodium Chloride to Larval and Newly Transformed Juvenile Striped Bass. J. Aqua. Animal Health 7:298-303.	Results are not acceptable because duration is too short. Calcium reduced the toxicity of NaCl.
Grundy, J.E., and K.B. Storey. 1994. Urea and Salt Effects on Enzymes from Estivating and Non-estivating Amphibians. Molecular Cellular Biochem. 131:9-17.	Results are not acceptable because these tests concerned effects of NaCl and KCl on enzymes.
Hamilton, R.W., J.K. Buttner, and R.G. Brunetti. 1975. Lethal Levels of Sodium Chloride and Potassium Chloride for an Oligochaete, a Chironomid Midge, and a Caddisfly of Lake Michigan. Environ. Entomol. 4:1003-1006.	Results are not acceptable because the midges were not adequately acclimated; tests using the other two species were too short.
Harmon, S.M., et al. 2003. A Comparison of the Daphnids Ceriodaphnia dubia and Daphnia ambigua for Their Utilization in Routine Toxicity Testing in the Southeastern United States. Arch. Environ. Contam. Toxicol. 45:79-85.	Results of acute tests on chloride are acceptable. Also contains chronic tests.
Hart, B.T., et al. 1991. A Review of the Salt Sensitivity of the Australian Freshwater Biota. Hydrobiologia 210:105-144.	Result are not acceptable because they are secondary information.
Health Canada. 2006. Sodium chloride.	Results are not acceptable because they are secondary information.
Hinton, M.J., and A.G. Eversole. 1978. Toxicity of Ten Commonly Used Chemicals to American Eels. Proc. Annu. Conf. Southeast. Assoc. Fish Wildl. Agencies 32:599-604.	Results of acute tests on chloride are acceptable.
Hinton, M.J., and A.G. Eversole. 1979. Toxicity of Ten Chemicals Commonly Used in Aquaculture to the Black Eel Stage of the American Eel. Proc. World Maricul. Soc. 10:554-560.	Results of acute tests on chloride are acceptable.
Hodgson, E.S. 1951. Reaction Thresholds of an Aquatic Beetle, Laccophilus maculosus Germ., to Salts and Alcohols. Physiol. Zool. 24:131-140.	Results are not acceptable because these were non-standard tests.
Hoke, R.A., W.R. Gala, J.B. Drake, J.P. Giesy, and S. Flegler. 1992. Bicarbonate as a Potential Confounding Factor in Cladoceran Toxicity Assessments on Pore Water from Contaminated Sediments. Can. J. Fish. Aquat. Sci. 49:1633-1640.	Results of acute tests on chloride are acceptable.

Horrigan, N., J.E. Dunlop, B.J. Kefford, and F. Zavahir. 2007. Acute Toxicity Largely Reflects the Salinity Sensitivity of Stream Macroinvertebrates Derived using Field Distributions. Marine and Freshwater Res. 58:178-186.	Results are not acceptable because they are secondary information.
Hosiaisluoma, V. 1976. Effect of HCl and NaCl on the Growth of Netrium digitus (Desmidiales). Ann. Bot. Fennici. 13:107-113.	Results are not acceptable because the test species was an alga.
Hruska, K.A., and M.G. Dube. 2004. Using Artificial Streams to Assess the Effects of Metal Mining Effluent on the Life Cycle of the Freshwater Midge (Chironomus tentans) in situ. Environ. Toxicol. Chem. 23:2709-2718.	Results are not acceptable because the test was on an effluent that contained metals, etc.
Hughes, J.S. 1969. Toxicity of Some Chemicals to Striped Bass (Roccus saxatilis). Proceedings of the Twenty-second Annual Conference of the Southeastern Association. (A: 5990) The methodology is also described in Hughes (1971).	Results are not acceptable because the fish were not adequately acclimated.
Hughes, J.S. 1971. Tolerance of Striped Bass, Morone saxatilis (Walbaum), Larvae and Fingerlings to Nine Chemicals Used in Pond Culture. Proc. Ann. Conf. S.E. Assoc. Game Fish. Comm. 24:431-438 (A: 2724).	No results concerning chloride.
Hughes, J.S. 1973. Acute Toxicity of Thirty Chemicals to Striped Bass (Morone saxatilis). Louisiana Wild Life and Fisheries Commission. (A: 2012)	Same data as Hughes (1969).
James, K.R., B. Cant, and T. Ryan. 2003. Responses of Freshwater Biota to Rising Salinity Levels and Implications for Saline Water Management: A Review. Australian J. Botany 51:703-713.	Results are not acceptable because they are secondary information.
Jasim, B.M. 1988. Tolerance and Adaptation of Goldfish Carassius auratus (L.) to Salinity. J. Biol. Sci. Res. 19:149-154.	Results are not acceptable because they are expressed in terms of conductivity.
Jones, J.R.E. 1941. A Study of the Relative Toxicity of Anions, with Polycelis nigra as Test Animal. J. Exp. Biol. 18:170-181. (A: 40155)	Results are not acceptable because the dilution water was distilled water.
Jop, K.M., and A.M. Askew. 1994. Toxicity Identification Evaluation Using a Short-term Chronic Test with Ceriodaphnia dubia. Bull. Environ. Contam. Toxicol. 53:91-97.	Results are not acceptable because unusual dilution water and salts were used.
Judd, K.E., et al. 2005. A Case History: Effects of Mixing Regime on Nutrient Dynamics and Community Structure in Third Sister Lake, Michigan, During Late Winter and Early Spring 2003. Lake Reserv. Manage. 21:316-329.	No results of toxicity tests.
Kapoor, N.N. 1979. Osmotic Regulation and Salinity Tolerance of the Stonefly Nymph, Paragnetina media. J. Insect Physiol. 25:17-20.	Results are not acceptable because the dilution water was distilled water.
Karraker, N.E. 2007. Are Embryonic and Larval Green Frogs (Rana clamitans) Insensitive to Road Deicing Salt? Herpt. Conser. Biol. 2:35-41.	Results are not acceptable because the were tests on road salt.
Keating, K.I., and B.C. Dagbusan. 1986. Diatoms in Daphnid Culture and Bioassay. Environ. Toxicol. Chem. 5:299-307.	Results are not acceptable because these were 72-h unfed tests with D. pulex.
Kefford, B.J., P.J. Papas, and D. Nugegoda. 2003. Relative Salinity Tolerance of Macroinvertebrates from the Barwon River, Victoria, Australia. Marine and Freshwater Res. 54:755-765.	Results are not acceptable because the treatments were prepared by dissolving a synthetic sea salt in tap water.

Kefford, B.J., P.J. Papas, and D. Nugegoda. 2003. Lethal Salinity Tolerance and Selected Field Distributions of Freshwater Macroinvertebrate Taxa Tested in the Present Study. Accessory publication to Kefford et al. (2003).	Results are not acceptable because they are secondary information.
Kefford, B.J., P.J. Papas, L. Metzeling, and D. Nugegoda. 2004. Do Laboratory Salinity Tolerances of Freshwater Animals Correspond with Their Field Salinity? Environ. Pollut. 129:355-362.	Results are not acceptable because they are secondary information. Discusses ways of measuring tolerance to salinity.
Kefford, B.J., C.G. Palmer, L. Pakhomova, and D. Nugegoda. 2004. Comparing Test Systems to Measure the Salinity Tolerance of Freshwater Invertebrates. Water SA 30:499-506.	Results are not acceptable because they are given in terms of salinity.
Kefford, B.J., and D. Nugegoda. 2005. No Evidence for a Critical Salinity Threshold for Growth and Reproduction in the Freshwater Snail Physa acuta. Environ. Pollut. 134:377-383.	Results are not acceptable because the tested treatments were prepared by dissolving a synthetic sea salt in distilled water.
Keller, A.E. 2000. Water Quality and Toxicity Data for Unpublished Unionid Mussel Tests. Memorandum to R. Pepin. September 1.	Results of acute tests on KCl.
Khangarot, B.S. 1991. Toxicity of Metals to a Freshwater Tubificid Worm, Tubifex tubifex (Muller). Bull. Environ. Contam. Toxicol. 46:906-912. (A: 2918)	Results are not acceptable because test temperature was high and results of tests with D. magna (Khangarot and Ray 1989) in same water were unusually low.
Khangarot, B.S., and P.K. Ray. 1989. Investigation of Correlation Between Physicochemical Properties of Metals and Their Toxicity to the Water Flea Daphnia magna Straus. Ecotoxicol. Environ. Saf. 18(2):109-120. (A: 6631)	Results of acute tests on chloride are acceptable. (7 mg Cl/L in the dilution water.)
Khanna, N., C.P. Cressman III, C.P. Tatara, and P.L. Williams. 1997. Tolerance of the Nematode Caenorhabditis elegans to pH, Salinity, and Hardness in Aquatic Media. Arch. Environ. Contam. Toxicol. 32:110-114.	Results are not acceptable because the test species was a non-aquatic nematode.
Kostecki, P.T., and J.J. Jones. 1983. The Effect of Osmotic and Ion-osmotic Stresses on the Mortality of Rainbow Trout (Salmo gairdneri). Comp. Biochem. Physiol. 74A:773-775.	Results are not acceptable because duration was too short and an unusual dilution water was used.
Kszos, L.A., J.D. Winter, and T.A. Storch. 1990. Toxicity of Chautauqua Lake Bridge Runoff to Young-of-the-Year Sunfish (Lepomis macrochirus). Bull. Environ. Contam. Toxicol. 45:923-930.	Results are not acceptable because there were only 6 fish per treatment and no results for 96 hr.
Lange, M., W. Gebauer, J. Marki, and R. Nagel. 1995. Comparison of Testing Acute Toxicity on Embryos of Zebrafish, Brachydania rerio and RTG-2 Cytotoxicity as Possible Alternatives to the Acute Fish Test. Chemosphere 30:2087-2102.	Results are not acceptable because the zebrafish is not resident and tests using cells are not acceptable.
Lasier, P.J., P.V. Winger, and R.E. Reinert. 1997. Toxicity of Alkalinity to Hyalella azteca. Bull. Environ. Contam. Toxicol. 59:807-814.	Results of acute tests on chloride are acceptable.
Lasier, P.J., P.V. Winger, W.S. Perkins, and G.L. Baughman. 2004. Effects of Anions and Anion Mixtures on the Reproduction of Ceriodaphnia dubia. Poster at SETAC.	These are chronic tests.
Lasier, P.J., P.V. Winger, and I.R. Hardin. 2006. Effects of Hardness and Alkalinity in Culture and Test Waters on Reproduction of Ceriodaphnia dubia. Environ. Toxicol. Chem. 25:2781-2786.	These are chronic tests.

Leblanc, G.A., and D.C. Surprenant. 1984. The Influence of Mineral Salts on Fecundity of the Water Flea (Daphnia magna) and the Implications on Toxicity Testing of Industrial Wastewater. Hydrobiol. 108:25-31.	These are chronic tests.
Lilius, H., B. Isomaa, and T. Holmstrom. 1994. A Comparison of the Toxicity of 50 Reference Chemicals to Freshly Isolated Rainbow Trout Hepatocytes and Daphnia magna. Aquat. Toxicol. 30:47-60.	Results are not acceptable because tests using D. magna were too short and tests using hepatocytes are not acceptable.
Lilius, H., T. Hastbacka, and B. Isomaa. 1995. A Comparison of the Toxicity of 30 Reference Chemicals to Daphnia magna and Daphnia pulex. Environ. Toxicol. Chem. 14:2085-2088.	Results are not acceptable because the duration was too short.
Lowell, R.B., J.M. Culp, and F.J. Wrona. 1995. Toxicity Testing with Artificial Streams: Effects of Differences in Current Velocity. Environ. Toxicol. Chem. 14:1209-1217.	Results are not acceptable because the duration was too short.
MacGregor, R., et al. 1986. The Effects of Total Hardness on Potassium Dichromate and Sodium Dichloride Acute Toxicity to Daphnia pulex and Ceriodaphnia reticulata. EPA/OTS. Doc. #40-84421610; NTIS microfische number: NTIS/OTS0519382.	Results are not acceptable because very little information is given concerning methodology. Toxicity of NaCl was not significantly affected by hardness.
Mackie, G.L. 1978. Effects of Pollutants on Natality of Musculium securis (Bivalvia: Pisidiidae). Nautilis 92:25-33.	These are chronic tests.
Madsen, H. 1990. The Effect of Sodium Chloride Concentration on Growth and Egg Laying of Helisoma duryi, Biomphalaria alexandrina and Bulinus truncatus (Gastropoda: Planorbidae). J. Moll. Stud. 56:181-187.	Results are not acceptable because an unusual reconstituted water was used.
Mahajan, C.L., S.D. Sharma, and S.P. Sharma. 1979. Tolerance of Aquatic Organisms to Chloride Salts. Indian J. Exp. Biol. 17:1244-1245.	Results are not acceptable because the dilution water was deionized water.
Mazik, P.M., et al. 1991. Influence of Nitrite and Chloride on Survival and Hematological Profiles of Striped Bass. Trans. Amer. Fish. Soc. 120:247-254.	Results are not acceptable because they concern the effect of NaCl and CaCl2 on the toxicity of nitrite.
McCulloch, W.L., W.L. Goodfellow, Jr., and J.A. Black. 1993. Characterization, Identification, and Confirmation of Total Dissolved Solids as Effluent Toxicants. Environ. Toxicol. Risk Assess. 2:213-227.	Results are not acceptable because they are secondary information.
McNulty, E.W., et al. 1999. Evaluation of Ability of Reference Toxicity Tests to Identify Stress in Laboratory Populations of the Amphipod Hyalella azteca. Environ. Toxicol. Chem. 18:544-548.	Studied toxicity of KCl to stressed and unstressed H. azteca.
Miklovic, A., and S.M. Galatowitsch. 2005. Effect of NaCl and Typha angustifolia L. on Marsh Community Establishment: A Greenhouse Study. Wetlands 25:420-429.	No results of toxicity tests on aquatic animals.
Mosslacher, F. 2000. Sensitivity of Groundwater and Surface Water Crustaceans to Chemical Pollutants and Hypoxia: Implications for Pollution Management. Arch. Hydrobiol. 149:51-66.	Results of tests on KCl.
Mount, D.R., D.D. Gulley, J.R. Hockett, T.D. Garrison, and J.M. Evans. 1997. Statistical Models to Predict the Toxicity of Major Ions to Ceriodaphnia dubia, Daphnia magna and Pimephales promelas (Fathead Minnows). Environ. Toxicol. Chem. 16(10):2009-2019. (A: 18272)	Although the organisms were fed during the tests, results of acute tests on chloride are acceptable. Comparisons of fed and unfed acute tests are reported.

Muschal, M. 2006. Assessment of Risk to Aquatic Biota from Elevated Salinity - A Case Study from the Hunter River, Australia. J. Environ. Manage. 79:266-278.	Results are not acceptable because they are secondary information and the species are not resident in North America.
Nagpal, N.K., D.A. Levy, and D.D. MacDonald. 2003. Ambient Water Quality Guidelines for Chloride. Environmental Protection Division, Ministry of Environment, British Columbia, Canada.	Results are not acceptable because they are secondary information.
Newman, M., and M.S. Aplin. 1992. Enhancing Toxicity Data Interpretation and Prediction of Ecological Risk with Survival Time Modeling: An Illustration Using Sodium Chloride Toxicity to Mosquitofish (Gambusia holbrooki). Aquat. Toxicol. 23:85-96.	Results are not acceptable because pH < 6.5.
Nielson, D.L., M.A. Brock, G.N. Rees, and D.S. Baldwin. 2003. Effects of Increasing Salinity on Freshwater Ecosystems in Australia. Australian J. Botany 51:655-665.	No results of toxicity tests.
Nordlie, F.G., and A. Mirandi. 1996. Salinity Relationships in a Freshwater Population of Eastern Mosquitofish. J. Fish. Biol. 49:1226-1232.	Results are not acceptable because the treatments were ocean water diluted with deionized water.
Osterhout, J.V. 1906. Extreme Toxicity of Sodium Chloride and Its Prevention by Other Salts. J. Biol. Chem. 1:363-369.	Results are not acceptable because the test species were plants.
Padhye, A.D., and H.V. Ghate. 1992. Sodium Chloride and Potassium Chloride Tolerance of Different Stages of the Frog, Microhyla ornata. Herpetol. 2:18-23.	Results are not acceptable because the test species is not resident.
Palladini, G., V. Margotta, A. Carolei, and M.C. Hernandez. 1980. Dopamine Agonist Performance in Planaria after Manganese Treatment. Experientia 36:449-450.	Results are not acceptable because the dilution water was distilled water.
Palmer, C.G., et al. 2004. The Development of a Toxicity Database Using Freshwater Macroinvertebrates, and Its Application to the Protection of South African Water Resources. South African J. of Sci. 100:643-650 (with attached Table 1).	Some tests with the only resident species, Daphnia pulex, are acceptable.
Patrick, R., J. Cairns Jr., and A. Scheier. 1968. The Relative Sensitivity of Diatoms, Snails, and Fish to Twenty Common Constituents of Industrial Wastes. Prog. Fish-Cult. 30(3):137-140. (A: 949)	Results of acute tests on chloride are acceptable.
Phillips, A.M., Jr. 1944. The Physiological Effect of Sodium Chloride upon Brook Trout. Trans. Amer. Fish. Soc. 74:297-309.	Results are not acceptable because the exposures were via ingested salt and salt baths for up to 24 hr.
Pickering, Q.H., J.M. Lazorchak, and K.L. Winks. 1996. Subchronic Sensitivity of One-, Four-, and Seven-day-old Fathead Minnow (Pimephales promelas) Larvae to Five Toxicants. Environ. Toxicol. Chem. 15:353-359.	These are 7-day subchronic tests.
Pillard, D.A., J.R. Hockett, and D.R. DiBona. 1999. The Toxicity of Common Ions to Freshwater and Marine Organisms. American Petroleum Institute, Washington, DC.	Results are not acceptable because they are secondary information.
Pillard, D.A., P. Odenbeck, C. Archer, A. Hawkins, B.J. David, D.A. Anders, and J.A. Bleiler. 2006. Toxicity of Chloride Salts to Larval Amphibians. Poster at SETAC annual meeting.	Results are not acceptable because the durations and effects are non-standard.
Rasowo, J., et al. 2007. Effects of Formaldehyde, Sodium Chloride, Potassium Permanganate, and Hydrogen Peroxide on Hatch Rate of African Catfish Clarias gariepinus eggs. Aquaculture 269:271-277.	Results are not acceptable because the test species is not resident.

Reed, P., and R. Evans. 1981. Acute toxicity of chlorides, sulfates, and total dissolved solids to some fishes in Illinois. Illinois Department of Energy and Natural Resources, State Water Survey Division. SWS Contract Report 283. (A: 60643)	Results are not acceptable because the sodium chloride was technical grade. (The test organisms were fed during the tests.)
Roback, S.S. 1965. Environmental Requirements of Trichoptera. IN: Biological Problems in Water Pollution, C.M. Tarzwell (ed.), USPHS Tech Rept. 999-WP25, Cincinnati, OH. pp. 118-126.	Results are not acceptable because these are field data relating chloride and caddisflies.
Rosicky, P., J. Kouril, and I. Prikryl. 1987. The Effect of the Length of Short-term Exposure to NaCl on the Tolerance of Early Common Carp and Silver Carp Fry to NaCl Baths. Bul. Vurh. Vodnany 23:8-13.	Results are not acceptable because duration was too short.
Rozman, K.K. 2000. The Role of Time in Toxicology or Haber's c x t Product. Toxicology 149:35-42.	Results are not acceptable because they are secondary information.
Salman, N.A., and F.B. Eddy. 1988. Effect of Dietary Sodium Chloride on Growth, Food Intake and Conversion Efficiency in Rainbow Trout (Salmo gairdneri Richardson). Aquaculture 70:131-144.	Results are not acceptable because they concern the effect of NaCl in food.
Sanzo, D., and S.J. Hecnar. 2006. Effects of Road De-Icing Salt (NaCl) on Larval Wood Frogs (Rana sylvatica). Environ. Pollut. 140:247-256.	Results are not acceptable because the sodium chloride was technical grade. (The test organisms were fed during the tests.) Also contains chronic tests.
Sarma, S.S.S. et al. 2006. Effects on NaCl Salinity on the Population Dynamics of Freshwater Zooplankton (Rotifers and Cladocerans). Aquat. Ecol. 40:349-360.	Results of unusual chronic tests on NaCl using ten species.
Schreier, T.M., et al. 1996. Efficacy of Formalin, Hydrogen Peroxide, and Sodium Chloride on Fungal-infected Rainbow Trout Eggs. Aquatculture 140:323-331.	Results are not acceptable because they concern the effects of short pulses of NaCl on infected and uninfected eggs.
Seals, C., C.J. Kempton, J.R. Tomasso, Jr., and T.I.J. Smith. 1994. Environmental Calcium Does Not Affect Production or Selected Blood Characteristics of Sunshine Bass Reared under Normal Culture Conditions. Prog. Fish-Cult. 56:269-272.	No data pertaining to the toxicity of chloride.
Seymour, D.T., A.G. Verbeek, S.E. Hrudey, and P.M. Fedorak. 1997. Acute Toxicity and Aqueous Solubility of Some Condensed Thiophenes and Their Microbial Metabolites. Environ. Toxicol. Chem. 16:658-665.	Results of acute tests on chloride are acceptable.
Short, T.M., et al. 1991. Ecology of a Saline Stream: Community Responses to Spatial Gradients on Environmental Conditions. Hydrobiologia 226:167-178.	Results are not acceptable because they concern effects of oil-field brines on a stream.
Slaughter, A.R., C.G. Palmer, and W.J. Muller. 2007. An Assessment of Two-Step Linear Regression and Multifactor Probit Analysis as Alternatives to Acute to Chronic Ratios in the Estimation of Chronic Responses from Acute Toxicity Data to Derive Water Quality Guidelines. Integ. Environ. Assess. Manage. 3:193-202.	Results are not acceptable because the test species are not resident.
Sparks, R.E., and K.B. Anderson. 1977. Acute Toxicity of Potassium to the Fingernail Clam, Musculium transversum. Trans. Ill. State Acad. Sci. 69:229.	Same data as Anderson et al. 1978.
Spehar, R.L. 1986. Criteria Document Data. Memorandum to D.J. Call. September 16.	Results of acute tests on chloride are acceptable. Also contains a chronic test.
Spehar, R.L. 1987. Criteria Document Data. Memorandum to C. Stephan. June 24.	Results of acute tests on chloride are acceptable. Also contains a chronic test.

Stanley, R.A. 1974. Toxicity of Heavy Metals and Salts to Eurasian Watermilfoil. Arch. Environ. Contam. Toxicol. 2:331-341.	Results are not acceptable because the test organisms were plants.
Stom, D.I., and L.D. Zubareva. 1994. Comparative Resistance of Daphnia and Epischura to Toxic Substances in Acute Exposure. Hydrobiol. J. 30:35-38. (A: 17048)	Results are not acceptable because the tests with D. magna were too short, there were too few test organisms, and E. baicalensis is not resident.
Sutcliffe, D.W. 1961. Studies on Salt and Water Balance in Caddis Larvae (Trichoptera). II. Osmotic and Ionic Regulation of Body Fluids in Limnephilus stigma Curtis and Anabolia nervosa Leach. J. Exp. Biol. 38:521-530.	Results are not acceptable because the tests were non-standard. L. stigma is resident. A. nervosa probably is not resident.
Tatara, C.P., M.C. Newman, J.T. McCloskey, and P.L. Williams. 1997. Predicting Relative Metal Toxicity with Ion Characteristics: Caenorhabditis elegans LC50. Aquat. Toxicol. 39:279-290.	Results are not acceptable because the test species is a free-living soil nematode.
Teschner, M. 1995. Effects of Salinity on the Life History and Fitness of Daphnia magna: Variability within and between Populations. Hydrobiologia 307:33-41.	Results are not acceptable because the treatment was prepared by adding sea salt to lake water.
Thornton, K.W., and J.R. Sauer. 1972. Physiological Effects of NaCl on Chironomus attenuatus (Diptera: Chironomidae). Ann. Entomol. Soc. Amer. 65:872-875.	Results of acute tests on chloride are acceptable.
Thornton, K.W., and H.L. Wilhm. 1975. The Use of Life Tables in Demonstrating the Effects of pH, Phenol, and NaCl on Chironomus attenuatus Populations. Environ. Entomol. 4:325-328.	Results are not acceptable because the treatments also contained penicillin, methylene blue, etc.
Threader, R.W., and A.H. Houston. 1983. Use of NaCl as a Reference Toxicant for Goldfish, Carassius auratus. Can. J. Fish. Aquatic Sci. 40:89-92.	The 96-hr results are acceptable.
Trama, F.B. 1954. The Acute Toxicity of Some Common Salts of Sodium, Potassium and Calcium to the Common Bluegill (Lepomis macrochirus Rafinesque). Proc. Acad. Nat. Sci. Philadelphia 106:185-205. (A: 8037)	Results of acute tests on chloride are acceptable.
U.S. EPA. 1988. Ambient Water Quality Criteria for Chloride - 1988. EPA 440/5-88-001. Washington, DC.	Results are not acceptable because they are secondary information.
U.S. EPA. 1991. Methods for Aquatic Toxicity Identification Evaluations. Phase I Toxicity Characterization Procedures. Second Edition. EPA/600/6-91/003.	Results of acute tests on chloride are acceptable, except those that are secondary information.
Utz, L.R.P., and M.B.C. Bohrer. 2001. Acute and Chronic Toxicity of Potassium Chloride (KCl) and Potassium Acetate (KC2H3O2) to Daphnia similis and Ceriodaphnia dubia (Crustacea; Cladocera). Bull. Environ. Contam. Toxicol. 66:379-385.	Results of tests on KCl.
Valenti, T.W., D.S. Cherry, R.J. Neves, B.A. Locke, and J.J. Schmerfeld. 2007. Case Study: Sensitivity of Mussel Glochidia and Regulatory Test Organisms to Mercury and a Reference Toxicant. IN: Freshwater Bivalve Ecotoxicology. Farris, J.L., and J.H. Van Hassel (eds). CRC Press. pp. 351-367.	Results of tests on NaCl using Ceriodaphnia dubia or Daphnia magna are acceptable, but not results of tests using fathead minnows or glochidia of freshwater mussels.
Van Horn, W.M., J.B. Anderson, and M. Katz. 1949. The Effect of Kraft Pulp Mill Wastes on Some Aquatic Organisms. Trans. Amer. Fish. Soc. 79:55-63. (A: 663)	Results are not acceptable because these were non-standard tests.
Van Horn, W.M., J.B. Anderson, and M. Katz. 1950. The Effect of Kraft Pulp Mill Wastes on Fish Life. TAPPI 33:209-212.	Results are not acceptable because these were non-standard tests.

Vosyliene, M.Z., et al. 2006. Toxicity of Road Maintenance Salts to Rainbow Trout Oncorhynchus mykiss. Ekologija 2:15-20.	Test on NaCl is acceptable; test on road maintenance salt is not acceptable.
Wadhia, K., et al. 2007. Intra-laboratory Evaluation of Microbial Assay for Risk Assessment (MARA) for Potential Application in the Implementation of the Water Framework Directive WFD). J. Environ. Monit. 9:953-958.	Results are not acceptable because the test duration was 24 h.
Wallace, R.L., and T.W. Snell. 2001. Phylum Rotifera. IN: Ecology and Classification of North American Freshwater Invertebrates. 2nd ed. J.H. Thorp and A.P Covich, ed.	Results are not acceptable because they are secondary information.
Wallen, I.E., W.C. Greer, and R. Lasater. 1957. Toxicity to Gambusia affinis of Certain Pure Chemicals in Turbid Waters. Sewage Ind. Wastes 29(6):695-711. (A: 508)	Results are not acceptable because the dilution water was from a turbid farm pond and the fish were treated for disease during holding.
Waller, D.L., et al. 1993. Toxicity of Candidate Molluscicides to Zebra Mussels (Dreissena polymorpha) and Selected Nontarget Organisms. J. Great Lakes Res. 19:695-702.	Results are not acceptable because duration was too short.
Waller, D.L., S.W. Fisher, and H. Dabrowska. 1996. Prevention of Zebra Mussel Infestation and Dispersal during Aquaculture Operations. Prog. Fish-Cult. 58:77-84 (A: 76054)	Results are not acceptable because duration was too short.
Wang, N. 2007. Email to C. Stephan. September 11.	Results of 96-hr tests are acceptable.
Warne, M.S.T., and A.D. Schifko. 1999. Toxicity of Laundry Detergent Components to a Freshwater Cladoceran and Their Contribution to Detergent Toxicity. Ecotoxicol. Environ. Saf. 44(2):196-206. (A: 20672)	Results are not acceptable because the dilution water was tap water to which seawater was added.
Warren, E. 1900. On the Reaction of Daphnia magna (Straus) to Certain Changes in its Environment. Quart. J. Microsc. Sci. 43:199-224.	Results are not acceptable because too little information is available concerning methodology.
Weider, L.J., and P.D.N. Hebert. 1987. Ecological and Physiological Differentiation among Low-arctic Clones of Daphnia pulex. Ecology 68:188-198.	Results not acceptable because the treatments were prepared by adding sea salt to synthetic pond water.
Williams, D.D., N.E. Williams, and Y. Cao. 2000. Road Salt Contamination of Groundwater in a Major Metropolitan Area and Development of a Biological Index to Monitor its Impact. Wat. Res. 34:127-138.	Results of acute tests on chloride are acceptable. Also contains chronic tests.
Williams, J.E. 1948. The Toxicity of Some Inorganic Salts to Game Fish. MS Thesis, Louisiana State University, Baton Rouge, LA.	Results are not acceptable because duration was too short.
Williams, M.D., and W.D. Williams. 1991. Salinity Tolerances of Four Species of Fish from the Murray-Darling River System. Hydrobiologia 210:145-150.	Results are not acceptable because the test organisms are not resident.
Wisconsin State Laboratory of Hygiene. 2007. Tables of Data.	Results of acute tests on chloride are acceptable. Also contains chronic tests.
Wurtz, C.B. 1968. A Review of Recent Literature Relative to Waste Components Associated with the Petroleum Industry. American Petroleum Institute.	Results are not acceptable because they are secondary information.
Wurtz, C.B., and C.H. Bridges. 1961. Preliminary Results from Macroinvertebrate Bioassays. Proc. Pennsyl. Acad. Sci. 35:51-56.	Results of acute tests on chloride are acceptable. (6 mg Cl/L in the dilution water.)

Yarzhombek, A.A., A.Y. Mikulin, and A.N. Zhdanova. 1991. Toxicity of Substances in Relation to Form of Exposure. J. Ichthyol. 31:99-106. (A: 7367)	Some results are not acceptable because the test organisms were exposed via oral administration or injection. Other results are not acceptable because duration was too short and very little info is available concerning methodology, water quality, etc.
Zalizniak, L., B.J. Kefford, and D. Nugegoda. 2006. Is All Salinity the Same? I. The Effect on Ionic Compositions on the Salinity Tolerance of Five Species of Freshwater Invertebrates. Marine Freshwater Res. 57:75-82.	No toxicity tests on chloride.