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TMDLs for Mercury in Selected Subsegments in the Lake Pontchartrain Basin, Louisiana

(040303, 040401, 040403, 040501, 040701, 040801, 040905, 040906)

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Executive Summary

Section 303(d) of the Clean Water Act and the U.S. Environmental Protection Agency's (EPA's) Water Quality Planning and Management Regulations (at Title 40 of the *Code of Federal Regulations* [CFR] section 130.7) for waterbody-pollutant pairs on the approved 303(d) impaired waters list, even if pollutant sources have implemented technology-based controls. A total maximum daily load (TMDL) is a calculation of the maximum amount of a pollutant that a waterbody can assimilate while still meeting the water quality standard for that pollutant. TMDLs provide the scientific basis for a state to establish water quality-based controls to reduce pollution from both point and nonpoint sources to restore and maintain the quality of the state's water resources (USEPA 1991).

A TMDL for a given pollutant and waterbody is composed of the sum of individual wasteload allocations (WLAs) for point sources and load allocations (LAs) for nonpoint sources and natural background levels. In addition, the TMDL must include an implicit or explicit margin of safety (MOS) to account for the uncertainty in the relationship between pollutant loads and the quality of the receiving waterbody. The components of the TMDL calculation are illustrated using the following equation:

$$TMDL = \sum WLAs + \sum LAs + MOS$$

The study area for these TMDLs includes eight Lake Pontchartrain Basin subsegments. The subsegments that drain to Lake Pontchartrain include segments in Bayou Liberty and the Amite, Blind, Tickfaw, Tangipahoa and Tchefuncte rivers. In the TMDL study area, the largest percentage of area is wetland, followed by forest, shrubland, and agriculture.

The Louisiana Department of Environmental Quality (LDEQ) included those subsegments on the state's 2008 section 303(d) list of impaired waterbodies. The subsegments are listed because of mercury impairments. The impaired designated uses for the subsegments (Table ES-1) are fish and wildlife propagation (FWP) and outstanding natural resource water (ONR). The subsegments are characterized as fully supporting the designated uses (F) and not supporting (N).

The numeric water quality criteria that were used to calculate the total allowable pollutant loads are a Louisiana fish tissue mercury action level of 0.5 ppm (mg/kg) and a water column measurement of 12 nanograms per liter (ng/L).

In TMDL development, allowable loadings from all pollutant sources that cumulatively amount to no more than the TMDL must be established, thereby providing the basis for establishing water quality-based controls. WLAs were assigned to permitted point source discharges. The LAs include background loadings and loadings from human-induced nonpoint sources. An implicit MOS based on conservative assumptions was used in these TMDLs. Table ES-2 presents a summary of the TMDLs for the subsegments addressed in this report.

Table ES-1. Section 303(d) listing for subsegments included in this report

Subsegment	Subsegment name	Subsegment description	Designated use				303 (d)-listed suspected impairment sources	
			PCR	SCR	FWP	ONR	Source unknown	Atmospheric deposition
040303	Amite River	Amite River-From Amite River Diversion Canal to Lake Maurepas	F	F	N		X	X
040401	Blind River	Blind River-From Amite River Diversion Canal to mouth at Lake Maurepas	F	F	N	N	X	X
040403	Blind River	Blind River-From Amite River Diversion Canal to mouth at Lake Maurepas	F	F	N	F	X	X
040501	Tickfaw River	Tickfaw River-From Mississippi state line to LA-42	F	F	N	F	X	X
040701	Tangipahoa River	Tangipahoa River-From Mississippi state line to I-12	F	F	N	F	X	X
040801	Tchefuncte River	Tchefuncte River- From headwaters to Bogue Falaya River; includes tributaries	F	F	N	F	X	X
040905	Bayou Liberty	Bayou Liberty-From headwaters to LA-433	F	F	N		X	X
040906	Bayou Liberty	Bayou Liberty-From LA-433 to Bayou Bonfouca	F	F	N		X	X

Note: F = fully supporting, N = not supporting, X = suspected impairment source.

This TMDL report indicates that current mercury loadings throughout the project study area are primarily from nonpoint sources. Consequently, significant reductions in atmospheric deposition within and outside the study area will be necessary. Atmospheric deposition makes up 99.6 percent of the current load. EPA expects that a combination of ongoing and future activities under the Clean Air Act will achieve reductions in air deposition of mercury that will enable progress toward achieving water quality standards.

Table ES-2. Summary of mercury TMDLs, WLAs, and LAs for Lake Pontchartrain Basin

Subsegment	Existing load	Total allowable loading	∑ WLAs	∑ LAs
	lb/yr	lb/day		
040303	6.65	1.6E-02	0.0E+00	1.6E-02
040401	3.76	5.9E-03	0.0E+00	5.9E-03
040403	19.97	3.8E-02	0.0E+00	3.8E-02
040501	13.90	1.9E-02	0.0E+00	1.9E-02
040701	9.60	1.8E-02	3.1E+04	1.8E-02
040801	6.01	9.9E-03	4.0E+04	9.5E-03
040905	0.49	8.3E-04	0.0E+00	8.3E-04
040906	0.59	9.9E-04	0.0E+00	9.9E-04

Information on point source discharges to the listed subsegments was obtained from the Electronic Document Management System database at LDEQ. Data were pulled from the database, and each facility was evaluated to determine whether including the facility in developing the TMDLs was appropriate. The evaluation yielded three point source discharges that might discharge mercury. For most of the dischargers, however, little is known about the potential to discharge mercury. EPA believes it is appropriate to assume that discharges from the municipal wastewater treatment plants (Standard Industrial Classification code 4952) discharging greater than 100,000 gallons per day in the subsegments contain mercury concentrations of 12.0 ng/L (USEPA 2005).

EPA recognizes that additional data and information might be necessary to validate the assumptions of the TMDLs and to provide greater certainty that the TMDLs will achieve the applicable water quality standard. At some point in the future, it might be appropriate to revise these TMDLs on the basis of new information gathered

and analyses performed. An adaptive management approach allows EPA or the state to use the best information available at the time to establish a TMDL at levels necessary to implement applicable water quality standards and to make allocations to the pollutant sources. The adaptive management approach is appropriate for these TMDLs because information on the actual contributions of mercury from both point and nonpoint sources will be much better characterized in the future. EPA expects point source loadings of mercury to be reduced primarily through mercury minimization programs developed and implemented by some point sources.

During implementation of the TMDLs, EPA expects the following activities to occur:

- National Pollutant Discharge Elimination System dischargers will develop and implement mercury minimization plans, as appropriate.
- Air emissions of mercury will be reduced through implementation of the Clean Air Act regulations.
- LDEQ will collect additional ambient data on mercury concentrations in water, sediment, fish, and soil, as appropriate.
- LDEQ will develop and implement a mercury risk reduction plan that assesses all sources of mercury.

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1. Introduction

Section 303(d) of the Clean Water Act and the U.S. Environmental Protection Agency's (EPA's) Water Quality Planning and Management Regulations (at Title 40 of the *Code of Federal Regulations* [CFR] section 130.7) for waterbody-pollutant pairs on the approved 303(d) impaired waters list, even if pollutant sources have implemented technology-based controls. A total maximum daily load (TMDL) is the calculation of the maximum allowable load (in mass per unit time) of a pollutant that a waterbody is able to assimilate while still supporting its designated uses. The maximum allowable load is determined on the basis of the relationship between pollutant sources and in-stream water quality. A TMDL provides the scientific basis for a state to establish water quality-based controls to reduce pollution from both point and nonpoint sources to restore and maintain the quality of the state's water resources (USEPA 1991).

The text of 40 CFR 130.7 has been affected by several Federal District Court suits, appeals rulings, and a Supreme Court ruling, mandating that a TMDL must be described in terms of mass per day. According to 40 CFR 130.7, if EPA does not approve a TMDL submitted by a state, EPA is responsible for developing a TMDL. In a District Court case regarding the TMDL program in Louisiana (*Sierra Club and Louisiana Environmental Action Network, Inc. v. EPA*, Civil Action Number: 96-0527), EPA was listed as the sole defendant. That case resulted in the April 1, 2002, consent decree approved by the judge. A consent decree is a negotiated set of actions to satisfy the plaintiff. In many situations, the actions are more stringent than the established regulation. For example, most consent decrees require an annual report to the plaintiff summarizing the work done in the year; that is not required by any regulation and will cease when the consent decree is closed.

In most circumstances, a variety of scientifically acceptable methods can be used for developing a TMDL, wasteload allocation (WLA), and load allocation (LA). It should be noted that because some acceptable TMDL calculation methods appear simple, that does not imply that its results are not valid. Models vary in the amount of necessary resources (e.g. training, setup/computational time, personnel, expense), required input and background data, questions answered, and output capability (e.g., charts, tables, data files). The final result of these TMDLs (and any TMDL) is a plan that is adopted into the Water Quality Management Plan (WQMP) to achieve the TMDL. Stakeholder involvement and additional information, such as monitoring data, might lead to an update of the WQMP to propose a different plan to meet water quality objectives. Such a WQMP update receives the same public participation as the original TMDL and WQMP review and approval.

Monitoring data collected by the Louisiana Department of Environmental Quality (LDEQ) indicate that observed water quality and mercury in fish tissue sometimes exceed criteria for eight subsegments in the Lake Pontchartrain Basin. The impaired designated uses for the subsegments are fish and wildlife propagation and outstanding natural resource water. The subsegments are characterized as fully supporting their designated uses (F) and not supporting (N). Table 1-1 presents information from Louisiana's 2008 section 303(d) list for the subsegments.

Table 1-1 also presents the suspected sources of mercury impairment. All subsegments are listed for atmospheric deposition. The subsegments also have the suspected cause *unknown sources*, which indicates that other sources might be present but not enough data are available to identify them. Natural sources of mercury include natural degassing of the earth's crust and trace amounts of mercury present in minerals or rocks, such as cinnabar, limestone, serpentine, and sandstone (LDEQ 2004). Man-made mercury sources include pesticides, fungicides, manometers (25,000–30,000 of which are in use in Louisiana at gas line metering stations), wastewater treatment sludge, batteries, waste incinerators, paints, fluorescent light bulbs, toys, shoes, dental amalgams, and medical devices (LDEQ 2004).

Table 1-1. Subsegments and impairments addressed in this report

Subsegment	Subsegment name	Subsegment description	Designated use*				303 (d)-listed suspected impairment sources	
			PCR	SCR	FWP	ONR	Source unknown	Atmospheric deposition
040303	Amite River	Amite River-From Amite River Diversion Canal to Lake Maurepas	F	F	N		X	X
040401	Blind River	Blind River-From Amite River Diversion Canal to mouth at Lake Maurepas	F	F	N	N	X	X
040403	Blind River	Blind River-From Amite River Diversion Canal to mouth at Lake Maurepas	F	F	N	F	X	X
040501	Tickfaw River	Tickfaw River-From Mississippi state line to LA-42	F	F	N	F	X	X
040701	Tangipahoa River	Tangipahoa River-From Mississippi state line to I-12	F	F	N	F	X	X
040801	Tchefuncte River	Tchefuncte River- From headwaters to Bogue Falaya River; includes tributaries	F	F	N	F	X	X
040905	Bayou Liberty	Bayou Liberty-From headwaters to LA-433	F	F	N		X	X
040906	Bayou Liberty	Bayou Liberty-From LA-433 to Bayou Bonfouca	F	F	N		X	X

* Notes: F = fully supporting, N = not supporting, I = insufficient data, X = not assessed; PCR = primary contact recreation; SCR = secondary contact recreation; FWP = fish and wildlife propagation; ONR = outstanding natural resource water

2. Background Information

2.1 General Description

The Lake Pontchartrain Basin is in southeastern Louisiana and is primarily comprised of the rivers and bayous that drain into Lake Pontchartrain. The basin is bordered by the Pearl River Basin to the east, by Breton and Chandeleur Sound to the southeast, and by the Mississippi River Levee to the south and west. The northern portion of the Lake Pontchartrain Basin consists of forests, pines and hardwoods, pastures, and dairies. The southern portion consists of cypress-tupelo swamps and lowlands, and brackish and saline marshes. Elevations in the basin range from minus 5 feet at New Orleans to greater than 200 feet near the Mississippi River (LDEQ 2010b).

The area for these TMDLs includes eight Lake Pontchartrain Basin subsegments. The subsegments that drain to Lake Pontchartrain include segments in Bayou Liberty and the Amite, Blind, Tickfaw, Tangipahoa and Tchefuncte rivers. The basin's U.S. Geological Survey (USGS) hydrologic unit codes include 08070202, 08070203, 08070204, 08070205, 08090201.

The area of interest for these TMDLs consists of selected subsegments in the Lake Pontchartrain Basin in Washington, St. Tammany, Tangipahoa, St. Helena, Livingston, Ascension and St. James parishes. Table 2-1 lists the parish and approximate drainage area of each subsegment, and Figure 2-1 shows the locations of the subsegments.

Table 2-1. Parish and drainage area for each listed subsegment in the Lake Pontchartrain Basin

Subsegment	Subsegment name	Parish	Drainage area (acres)	Tidally influenced? ^a
040303	Amite River	Livingston	48,165	Yes
040401	Blind River	Livingston	17,155	Yes
040403	Blind River	Ascension, St. James	110,125	Yes
040501	Tickfaw River	St. Helena	207,793	Yes
040701	Tangipahoa River	Tangipahoa	159,473	Yes
040801	Tchefuncte River	St. Tammany	139,139,810	Yes
040905	Bayou Liberty	St. Tammany	19,122	Yes
040906	Bayou Liberty	St. Tammany	7,335	Yes

Note: a. Source: Max Forbes, Retired USGS, personal communication, May 31, 2011.

2.2 Land Use

Land use data were obtained from the 2006 U.S. Geological Survey (USGS) National Land Cover Dataset (NLCD; Figure 2-2 and Table 2-2). The largest percentage of area is wetland, followed by forest, grass/shrub, and agriculture. There is not much developed land.

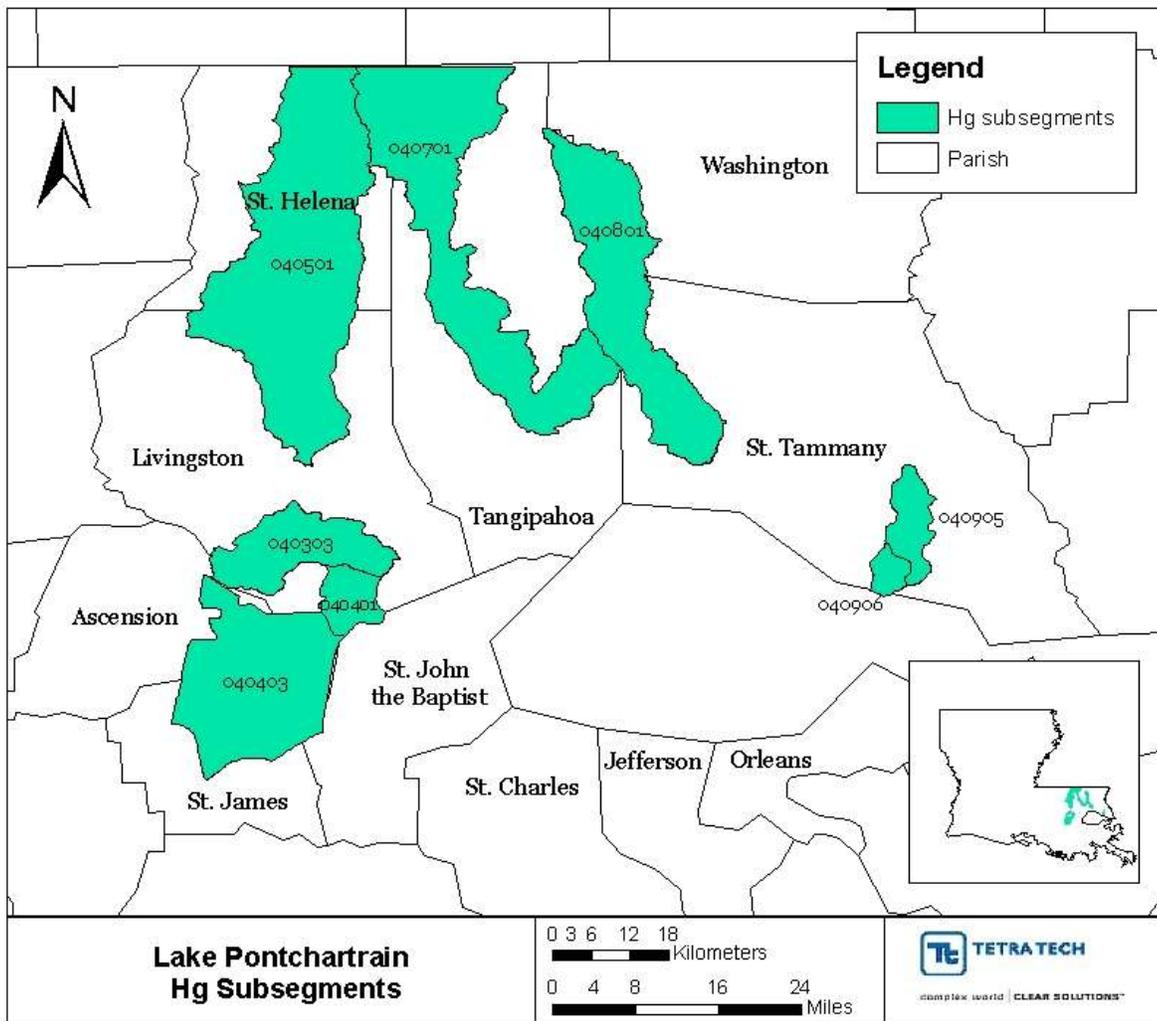


Figure 2-1. Locations of Lake Pontchartrain Basin subsegments.

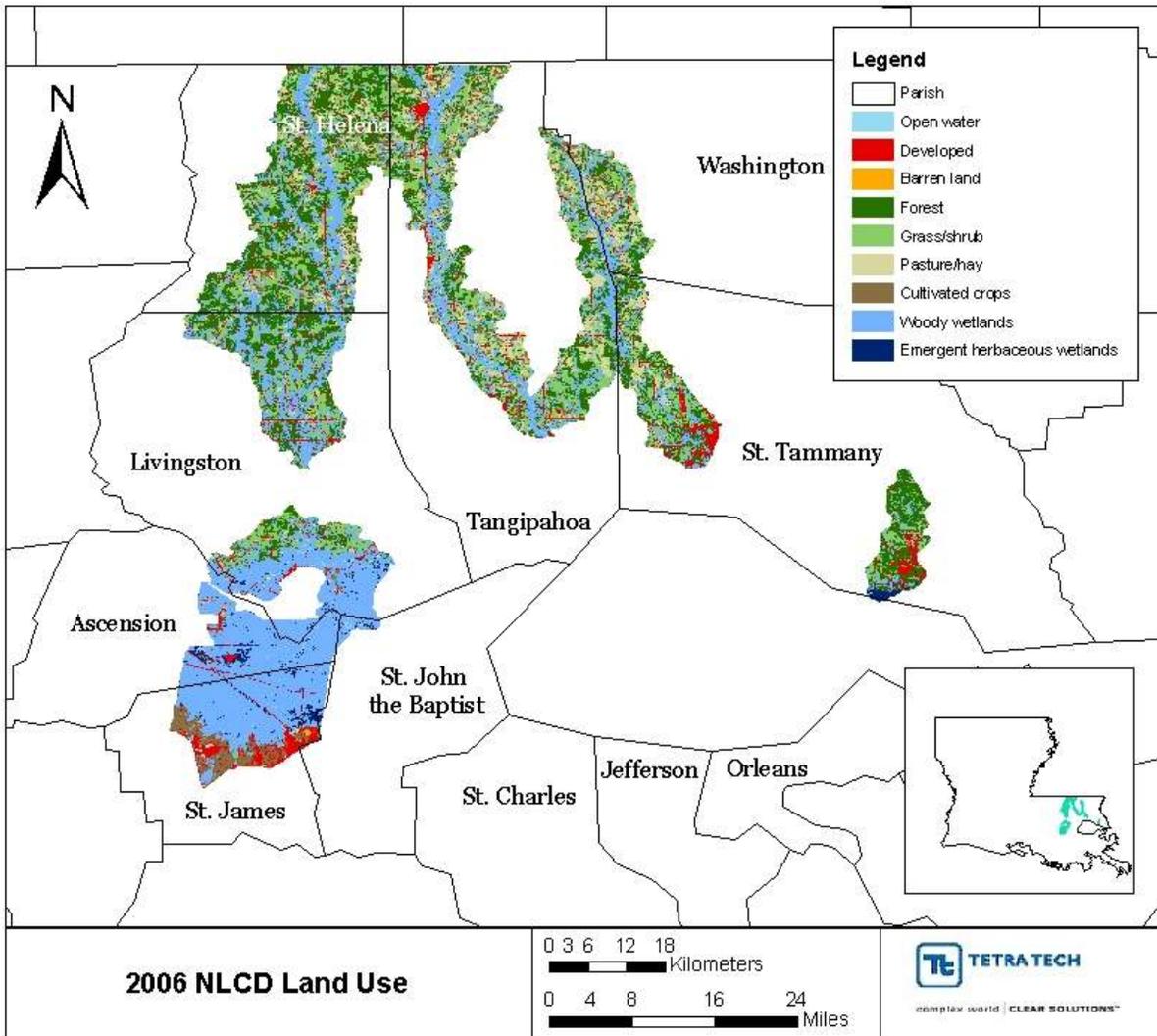


Figure 2-2. Land use in the Lake Pontchartrain Basin subsegments.

Table 2-2. Land use percentages for each listed subsegment in the Lake Pontchartrain Basin

Subsegment	Open water	Developed	Barren land	Forest	Grass/shrub	Pasture/hay	Cultivated crops	Woody wetland	Emergent herbaceous wetland
040303	1.90%	4.64%	0.01%	12.57%	17.67%	2.19%	2.54%	55.83%	2.65%
040401	2.16%	0.92%	0.00%	0.20%	0.04%	0.38%	2.53%	88.34%	5.44%
040403	1.24%	8.63%	0.17%	0.00%	0.54%	0.62%	10.73%	73.03%	5.03%
040501	0.12%	5.22%	0.11%	33.23%	23.51%	6.52%	2.15%	28.95%	0.18%
040701	1.65%	6.22%	0.59%	22.59%	25.06%	14.36%	5.16%	23.85%	0.52%
040801	0.79%	7.51%	0.19%	25.40%	23.79%	15.45%	4.03%	22.53%	0.32%
040905	0.16%	13.44%	0.20%	56.29%	18.08%	0.68%	0.04%	10.09%	1.02%
040906	0.73%	9.97%	0.17%	37.80%	15.88%	0.26%	0.92%	14.49%	19.78%

2.3 Hydrology

The USGS online hydrology database (NWISWeb) contains 10 stations with flow data for the subsegments that are impaired for mercury. Those stations are listed in Table 2-3 and are shown in Figure 2-3. The Lake Pontchartrain Basin is tidally influenced. USGS flow data were not used in developing the TMDLs.

Table 2-3. Current USGS flow stations in the Lake Pontchartrain Basin

Station	Station name	Subsegment
7375000	Tchefuncte River near Folsom, LA	040801
7375050	Tchefuncte River near Covington, LA	040801
7375300	Tangipahoa River near Kentwood, LA	040701
7375430	Tangipahoa River near Amite, LA	040701
7375500	Tangipahoa River at Robert, LA	040701
7375800	Tickfaw River at Liverpool, LA	040501
7376000	Tickfaw River at Holden, LA	040501
7380200	Amite River near French Settlement, LA	040303
7380215	Amite River at Hwy 22 near Maurepas, LA	040303
73802282	New River Canal near Sorrento, LA	040403

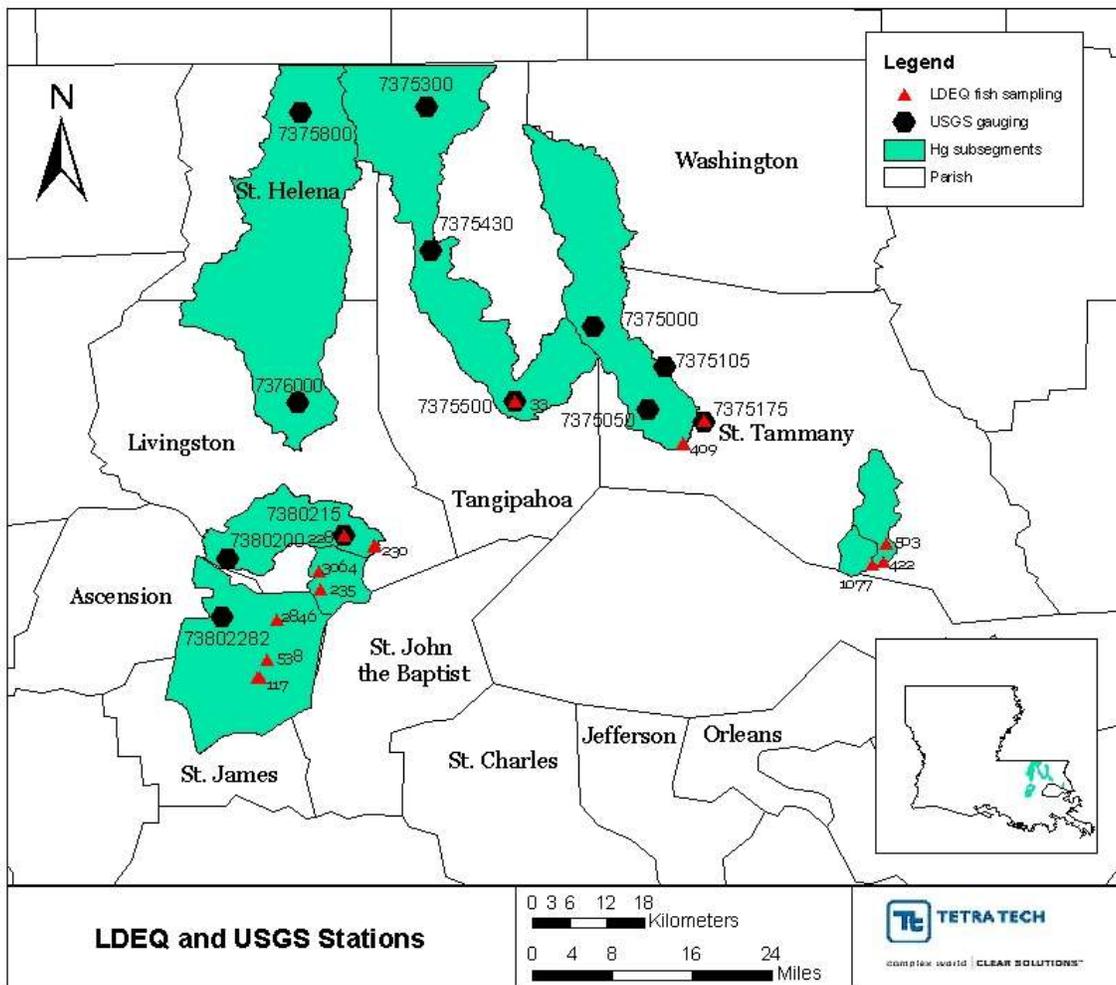


Figure 2-3. Locations of fish tissue sampling stations and USGS flow gauges in the Pearl River Basin.

2.4 Designated Uses and Water Quality Criteria

Louisiana’s 2008 section 303(d) list indicates that the eight listed subsegments—all assigned a use of fish and wildlife propagation or outstanding natural resource water—are not meeting applicable water quality standards because of impairments suspected to be the result of nonpoint atmospheric deposition.

Fish and wildlife propagation includes the use of water for aquatic habitat, food, resting, reproduction, cover, or travel corridors for any indigenous wildlife and aquatic life species associated with the aquatic environment. Outstanding natural resource waters are waterbodies designated for preservation, protection, reclamation, or enhancement of wilderness, aesthetic qualities, and ecological regimes, such as those designated under the Louisiana Natural and Scenic Rivers System or those designated by LDEQ as waters of ecological significance.

The state’s numeric criteria were used in conjunction with the assessment methodology presented in LDEQ’s section 305(b) report (LDEQ 2002). The assessment methodology specifies that primary contact recreation, secondary contact recreation, fish and wildlife propagation, and outstanding natural resource uses are to be fully supported. The water quality criterion is 12 nanograms per liter (ng/L) for chronic aquatic life protection in fresh and brackish water. Mercury levels in fish tissue are not to exceed the state’s criterion, 0.5 ppm.

The Louisiana water quality standards also include an antidegradation policy (Louisiana Administrative Code [LAC] Title 33, Part IX, Section 1109.A), which states that state waters exhibiting high water quality should be maintained at that high level of water quality. If that is not possible, water quality of a level that supports the designated uses of the waterbody should be maintained. The designated uses of a waterbody may be changed to allow a lower level of water quality only through a use attainability study.

2.5 Point Sources

LDEQ stores permit information using internal databases. Information on point source discharges to the listed subsegments was obtained from the Integrated Compliance Information System - National Pollutant Discharge Elimination System (ICIS-NPDES) and Louisiana’s Electronic Document Management System (EDMS). Data were pulled from ICIS for the list of permits generated by LDEQ and data were confirmed through EDMS.

Each facility was evaluated on the basis of its discharges and the relevant subsegment’s 303(d) listing to determine whether the facility would be used in developing the TMDLs. This report lists only permitted municipal facilities with flows greater than 100,000 gallons per day (gpd) as per methodology in the EPA approved TMDL, *Total Maximum Daily Loads (TMDLs) for Mercury in Fish Tissue for Coastal Bays and Gulf Waters of Louisiana* (USEPA 2005). The evaluation yielded 10 point source discharges (Table 2-4) that could have a mercury concentration. A full list of permits is included in Appendix A.

Table 2-4. Point source discharge information for the Lake Pontchartrain Basin

Agency interest (AI) #	Permit number	Facility name	Sub-segment	Outfall	Flow (gpd)	Receiving water
19979	LA0038431	Amite City, Town of - WWTP	040701	001	1,300,000	Tangipahoa River
33911	LA0042544	Independence, Town of - WWTP	040701	001	900,000	Tangipahoa River
33972	LA0046051	Kentwood, Town of - Sewerage WWTF	040701	001	700,000	Tangipahoa River
154673	LA0123897	Sewerage District #1 of Tangipahoa Parish - Nelson Development	040701	001	250,000	Tangipahoa River
18460	LA0084336	Covington, City of – WWTP	040801	001	2,630,000	Tchefuncte River
19208	LA0066567	Utilities of LA Inc - Green Brier Oxidation Pond	040801	001	640,000	Tchefuncte River
31222	LA0105520	Artesian Utility Co Inc - Lake Ramsey Subdivision	040801	001	120,000	Tchefuncte River
51671	LA0122645	Southeastern LA Water & Sewer Co LLC - Timber Branch II Subdivision	040801	001	300,000	Tchefuncte River
111355	LAR10C283	H2O Systems Inc - Penn Mill Lakes STF	040801	001	190,000	Tchefuncte River
115894	LA0117927	Southeastern LA Water & Sewer Co LLC-Tallow Cr STP	040801	001	146,000	Tchefuncte River

Phase I and II stormwater systems are additional possible point source contributors in the Lake 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. Those discharges often contain high concentrations of pollutants that can eventually enter nearby waterbodies. Most stormwater discharges are considered point sources and require coverage by an 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 includes small MS4s outside an UA that are so designated by NPDES permitting authorities, case by case (USEPA 2000). These TMDLs will not result in permit limits for any MS4 permittees. However, mercury minimization programs may be required.

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).

2.6 Nonpoint Sources

Louisiana’s section 303(d) list identifies atmospheric deposition as the suspected cause of the mercury impairment in the subsegments of the Lake Pontchartrain Basin. The predominant land use in the impaired subsegments is wetland. The percentage of wetlands in the subsegments ranges from 11 to 94 percent. The subsegments also contain pasture, cropland, forest, and urban areas. The regional atmospheric deposition data (Table 2-5) were obtained from the National Atmospheric Deposition Network. Station LA28 is in Tangipahoa Parish (Figure 2-4). Appendix B contains a full list of the atmospheric deposition data.

Table 2-5. Atmospheric deposition data

Subsegment	Station	Period of record	No. of obs.	Min. Hg conc. (ng/L)	Min. Hg load (ng/m ²)	Max. Hg conc. (ng/L)	Max. Hg load (ng/m ²)	Avg. Hg conc. (ng/L)	Avg. Hg load (ng/m ²)
040701	LA28	10/7/1998–12/29/2009	434	0.62	2.71	99.56	2,747	14.97	354

The land use statistics show that most of the subsegments consist largely of wetlands, water, and forests, which are largely undeveloped, natural areas. The Lake Pontchartrain Basin consists of vast areas of swamps and marshes, especially in the lower reaches, which contribute a large natural organic load to the waterbodies. The organic load, in turn, creates conditions conducive to the production of methyl mercury. What contribution natural sources make to the mercury impairment in this basin is not clear. Those natural conditions might not be affected by implementing the TMDLs, and more data are needed to assess the natural contributions.

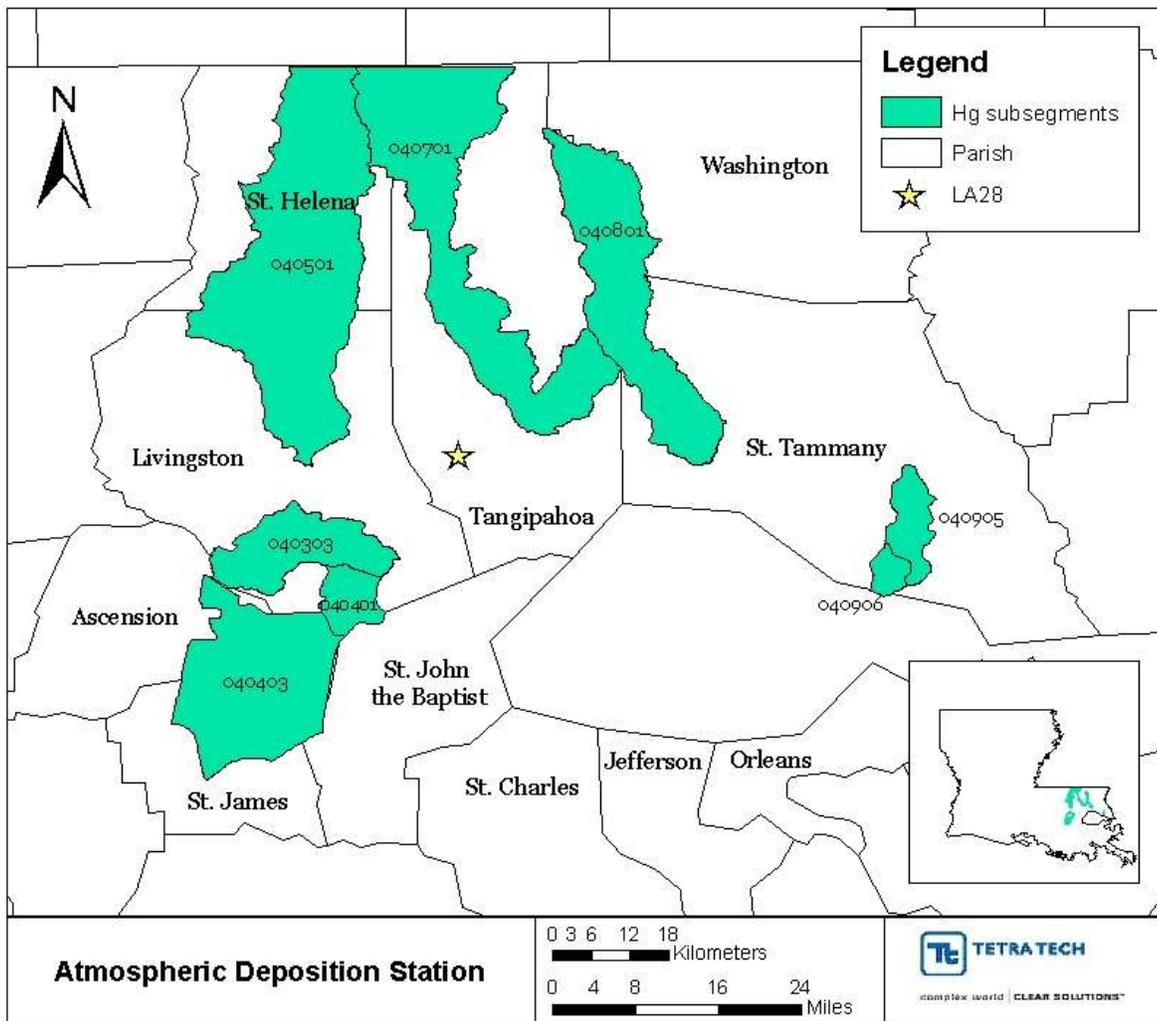


Figure 2-4. Location of the mercury atmospheric deposition station.

3. Characterization of Existing Water Quality

3.1 Comparison of Observed Data to Criterion

Water quality monitoring data for each listed subsegment were obtained from LDEQ. LDEQ mercury water quality data were available for 15 stations in 8 subsegments (Figure 3-1 and Table 3-1). Four of the stations had 100 or more data points; the remainder had fewer than 7. Many of the samples collected exceeded the water quality criterion, 12 ng/L (0.012 micrograms per liter [$\mu\text{g/L}$]). Appendix B contains a full list of the monitoring data.

Table 3-1. Summary of water column data in the Lake Pontchartrain Basin

Subsegment	Station	Station name	Period of record	No. of obs.	Mercury minimum ($\mu\text{g/L}$)	Mercury maximum ($\mu\text{g/L}$)	Mercury average ($\mu\text{g/L}$)
040303	0228	Amite River - Amite River at mile 6.5, at Clio, LA	9/18/01–3/7/06	5	0.01	0.2	0.064
040401	1102	Blind River near confluence with Lake Maurepas		No data			
040403	0117	Blind River near Gramercy, LA	4/13/81–4/14/98	103	0.05	1.3	0.192
	0538	Blind River near Gramercy, LA	7/24/96–2/2/99	4	0.05	0.05	0.05
	2846	Petite Amie River east of Sorrento, LA		No data			
	0156	Blind River northwest of Gramercy, LA		No data			
040501	0116	Tickfaw River at Springville, LA	4/13/81–3/1/05	116	0.01	1.6	0.19
040701	0108	Tangipahoa River at Arcola, LA	4/13/81–5/11/98	100	0.05	1	0.182
	0033	Tangipahoa River west of Robert, LA	4/21/99–7/26/04	2	0.05	0.2	0.125
040801	0107	Tchefuncte River west of Covington, LA	4/13/81–5/11/98	100	0.05	0.9	0.196
	0409	Tchefuncte River near Covington, LA	8/30/94–7/26/04	5	0.05	0.2	0.08
040905	0503	Bayou Liberty near Slidell, LA	8/24/95–4/19/99	3	0.05	0.05	0.05
	1077	Bayou Liberty at Hwy. 433 Bridge	7/24/01–9/13/04	1	0.05	0.05	0.05
	0422	Bayou Liberty west of Slidell, LA	7/23/07	2	0.01	0.01	0.01
040906	1076	Bayou Liberty at Bayou Paquet	9/19/01–12/19/01	No data			

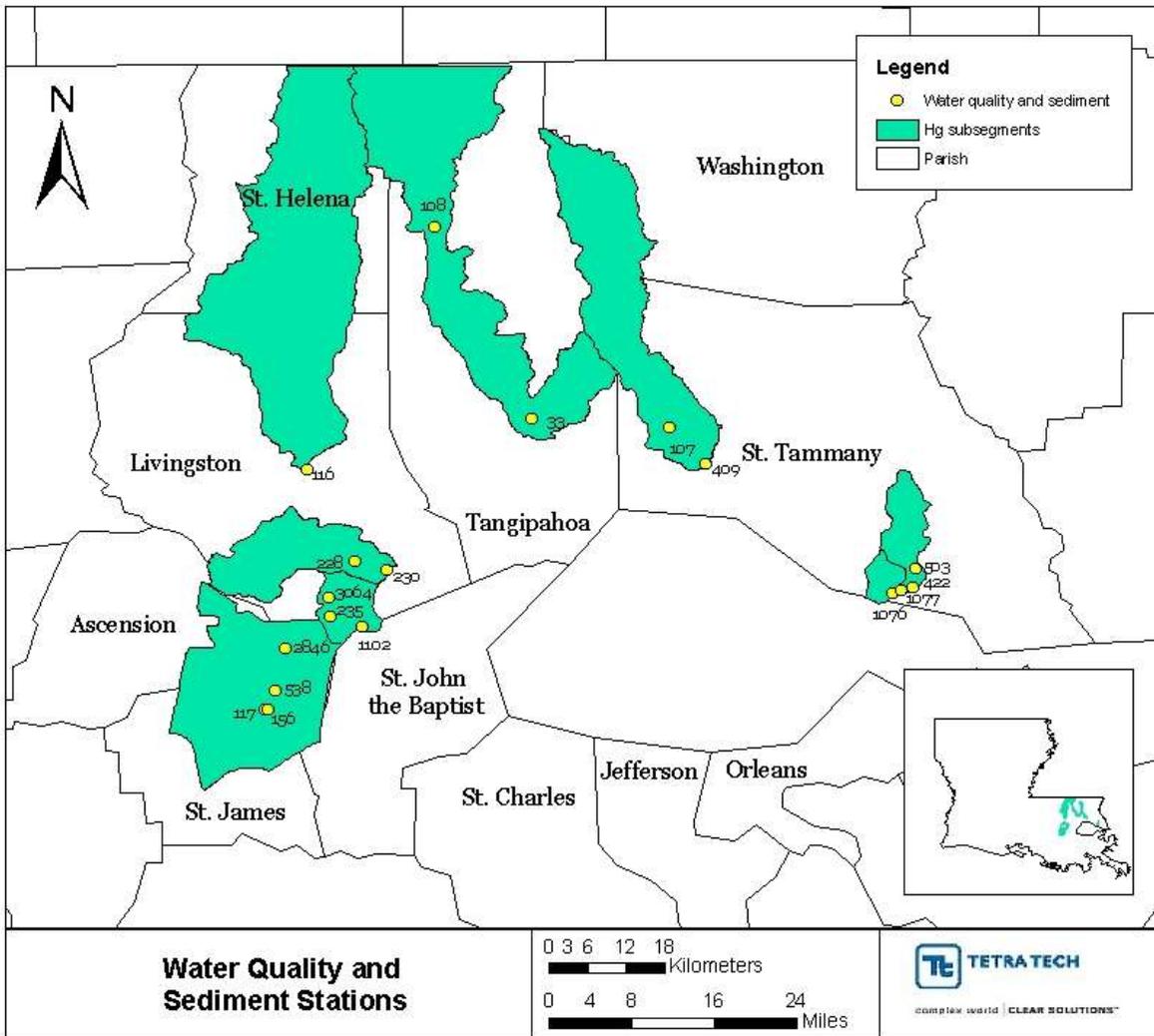


Figure 3-1. Locations of environmental sampling stations in Lake Pontchartrain Basin.

3.2 Analysis of Fish Sampling

Louisiana’s guidance for issuing Mercury fish tissue advisories includes a comparative numeric value of 0.5 parts per million (ppm or mg/kg). EPA’s criterion is 0.3 ppm. Louisiana’s guidance value was used in these TMDLs. LDEQ sampled in the Lake Pontchartrain Basin from 1995 to 2008, using 17 monitoring locations in seven subsegment. During that period, 243 maximum concentrations exceeded the LDEQ criterion of 0.5 ppm, and 10 locations had an average concentration above the guidance value.

Two types of mercury—inorganic and organic—are present in the environment. The organic or methyl mercury form is the primary species of concern. Methyl mercury bioaccumulates in the proteins of fish and other organisms, resulting in increases through the various trophic levels. For example, young fish typically have lower concentrations than older fish. Appendix B contains a full list of the monitoring data.

3.3 Sediment Data

Additional information on mercury was obtained from LDEQ mercury monitoring events. Sediment concentrations were obtained for 12 monitoring locations in five subsegments for inorganic mercury (Table 3-2)

and for 10 monitoring locations in five subsegments for organic mercury (Table 3-3). Most of the subsegments had only one to three data points for sediment. Two stations had five or six sampling events for inorganic mercury in sediment. Figure 3-1 shows the sediment sampling locations. Appendix B contains a full list of the monitoring data.

Table 3-2. Available inorganic mercury sediment data for the Lake Pontchartrain Basin

Subsegment	Station	Station name	Period of record	No. of obs.	Hg minimum (mg/kg)	Hg maximum (mg/kg)	Hg average (mg/kg)
040701	0033	Tangipahoa River west of Robert, LA	12/16/2002–7/26/2004	2	0.003	0.004	0.004
040403	0117	Blind River near Gramercy, LA	1/31/2000–1/11/2001	3	0.120	0.280	0.195
040403	0156	Blind River northwest of Gramercy, LA	1/9/2003–9/17/2007	3	0.063	0.424	0.184
040403	0228	Amite River at mile 6.5, at Clio, LA	1/18/2000–1/14/2008	5	0.000	0.160	0.089
040303	0230	Amite River at mile 6.5, at Clio, LA	7/14/2004	1	0.083	0.083	0.083
040401	0235	Blind River East of Sorrento, LA	1/21/2004–7/28/2008	3	0.000	0.070	0.037
040801	0409	Tchefuncte River near Covington, LA	8/30/1994–7/26/2004	5	0.000	0.098	0.057
040905	0422	Bayou Liberty west of Slidell, LA	7/23/2007	1	0.245	0.245	0.245
040905	0503	Bayou Liberty near Slidell, LA	8/24/1995–4/19/1999	3	0.030	0.820	0.297
040403	0538	Blind River near Gramercy, LA	7/24/1996–2/2/2009	3	0.000	0.520	0.327
040905	1077	Bayou Liberty at Hwy. 433 Bridge	7/24/2001–9/13/2004	3	0.047	0.151	0.096
040701	2139	Skulls Creek west of Robert, LA	3/24/2003	1	0.056	0.056	0.056
040403	2846	Petite Amie River east of Sorrento, LA	1/29/2004	1	0.116	0.116	0.116
040401	3064	Black Lake near Denson, LA	4/4/2005	1	0.114	0.114	0.114

Table 3-3. Available organic mercury sediment data for the Lake Pontchartrain Basin

Subsegment	Station	Station name	Period of record	No. of obs.	Methyl Hg minimum (µg/kg)	Methyl Hg maximum (µg/kg)	Methyl Hg average (µg/kg)
040701	0033	Tangipahoa River west of Robert, LA	7/26/2004	1	0.03	0.03	0.03
040403	0117	Blind River near Gramercy, LA	1/10/2002	1	2.19	2.19	2.19
040403	0156	Blind River northwest of Gramercy, LA	1/9/2003–9/17/2007	3	0.67	1.37	0.93
040403	0228	Amite River at mile 6.5, at Clio, LA	11/20/2002–7/14/2004	2	0.33	1.07	0.70
040303	0230	Amite River at mile 6.5, at Clio, LA	7/14/2004	1	0.30	0.30	0.30
040401	0235	Blind River East of Sorrento, LA	1/21/2004–8/1/2005	2	0.18	0.22	0.20
040801	0409	Tchefuncte River near Covington, LA	5/21/2002–7/26/2004	3	0.45	1.77	1.00
040905	0422	Bayou Liberty west of Slidell, LA	7/23/2007	1	0.38	0.38	0.38
040905	1077	Bayou Liberty at Hwy. 433 Bridge	7/29/2002–9/13/2004	2	0.10	0.19	0.15
040701	2139	Skulls Creek west of Robert, LA	3/24/2003	1	1.61	1.61	1.61
040403	2846	Petite Amie River east of Sorrento, LA	1/29/2004	1	0.59	0.59	0.59
040401	3064	Black Lake near Denson, LA	4/4/2005	1	0.81	0.81	0.81

4. TMDL Development

A TMDL is the total amount of a pollutant that can be assimilated by the receiving waterbody while still achieving water quality standards. In TMDL development, allowable loadings from all pollutant sources that cumulatively amount to no more than the TMDL must be established, thereby providing the basis for establishing water quality-based controls.

A TMDL for a given pollutant and waterbody is calculated using the sum of individual WLAs for point sources and LAs for nonpoint sources and natural background levels. In addition, the TMDL must include an implicit or explicit margin of safety (MOS) to account for the uncertainty in the relationship between pollutant loads and the quality of the receiving waterbody. The components of the TMDL calculation are illustrated using the following equation:

$$TMDL = \sum WLAs + \sum LAs + MOS$$

4.1 TMDL Analytical Approach

To estimate the mercury loading to the watershed, a two-step method was used. Point and nonpoint source loadings were estimated, and necessary reductions in fish tissue mercury concentrations were calculated.

4.1.1 Nonpoint Source Loading Estimates

Nonpoint source loads were estimated from regional atmospheric deposition. Data were obtained from the National Atmospheric Deposition Program (NADP). Station LA28 is in Tangipahoa Parish, which is just within the basin. Data obtained from that station were for wet deposition from 1999 through 2009. Dry deposition was calculated as 50 percent of the wet deposition; 40 to 60 percent of wet is an acceptable estimate for dry deposition (USEPA 2001b). Dry and wet deposition were combined to obtain total deposition.

Precipitation data were also available for the monitoring site. Those data were compared with precipitation data from National Climatic Data Center stations in and around the Lake Pontchartrain Basin. By dividing the average annual precipitation for the basin by the precipitation at station LA28, an atmospheric deposition correction factor was obtained. Multiplying the deposition at station LA28 by the deposition correction factor produced precipitation-corrected regional atmospheric deposition values for the Lake Pontchartrain Basin. Atmospheric deposition makes up 99.6 percent of the current load.

Only direct mercury loading was calculated in these TMDLs. For each subsegment the sum of the open water and wetland land use areas was used. Indirect loading by erosion and overland flow was considered minimal because there is very little agriculture and developed land in the basin.

4.1.2 Point Source Load Estimates

Information on point source discharges to the listed subsegments was obtained from LDEQ's EDMS. No permits specify a mercury limit. The water quality criterion maximum of 12 ng/L was assumed for the facility discharges in Table 2-4, and it was multiplied by the available flow to obtain a load. This methodology is consistent with the methodology in other EPA approved TMDLs, such as *Total Maximum Daily Loads (TMDLs) for Mercury in Fish Tissue for Coastal Bays and Gulf Waters of Louisiana* (USEPA 2005).

4.1.3 Load Reduction Estimates

EPA has a fish tissue mercury concentration maximum of 0.5 ppm. To establish a reduction in selected segments, the average of the worst-case species was used. The species average was divided by the target fish tissue concentration. Appendix C contains the TMDL calculations.

Equations Used for TMDL Calculation (USEPA 2001a):

$$RF = MC / SC \quad \text{Equation 4-1}$$

where

- RF = reduction factor
- MC = measured tissue concentration of worst-case species
- SC = safe tissue mercury concentration (0.5 ppm)

$$TMDL = (EL / RF) \times SF \quad \text{(Equation 4-2)}$$

where

- EL = existing load (nonpoint and point sources)
- RF = reduction factor
- SF = site-specific factor (assumed to be 1)

That TMDL calculation method relied on several assumptions. Point sources were assumed to discharge at a constant rate and at a constant mercury concentration equal to the water quality criterion. Factors affecting the site-specific factor were assumed negligible until more information is available. Atmospheric deposition was assumed to be significant only when applied directly to water or wetlands. A linear relationship was assumed between fish tissue concentrations and methyl mercury reductions, which is consistent with bioaccumulation factors and steady state assumptions.

The relationship between mercury loading to a watershed and the accumulation of mercury in fish tissue is complex and highly variable. A number of natural processes influence this relationship. This representation of mercury fate establishes a spatially varying relationship between point and atmospheric loadings, total mercury in soil, total mercury in water and sediment, methyl mercury in water and sediment, and mercury in fish tissue. This analysis assumes that reductions in loadings will lead to proportional mercury loading reductions in all media over time. Studies done throughout the country indicate methylation uptake rates of available mercury can widely vary with some studies confirming a linear relationship between loading and bioaccumulation in fish tissue. Modeling results from pilot studies in the Everglades (USEPA 2003) support that in the Everglades there is a linear relationship between mercury deposition and levels of mercury in fish. This relationship of fish mercury levels and deposition is almost linear. While it is not appropriate to transfer these results directly to other sites, it does provide support that this assumption is realistic and has been substantiated in at least one other location. The conservative assumption that 100 percent of the mercury loading is bioavailable is an implicit component of the margin of safety, which is a required element of a TMDL. This analysis assumes that reductions in loadings will lead to proportional mercury loading reductions in all media over time. It should be obvious that present concentrations in fish have resulted from loadings averaged over an appropriate time (as affected by transport, transformation, and bioaccumulation processes). Further, if all loadings could be completely eliminated, the mercury concentrations in all media and fish would eventually equilibrate to very low levels, below concentrations of concern relative to human health. We assume that methylation/demethylation rates and food web structure will be unaffected by future mercury load reductions. Therefore, predicted mercury concentrations in all media at a location (given sufficient time to re-equilibrate) will be related to load reductions in a roughly linear manner. This approach used the best technology we have available for developing a TMDL for mercury.

¹ Mercury loading capacity differs by waterbody depending on the physical and chemical variables. The site-specific factor might be based on measured sulfate, organic carbon, alkalinity, or pH values, as well as the influence of mercury methylation and bioaccumulation. Because of the complex nature of mercury bioaccumulation and other factors, the site-specific factor was assumed to be 1. In the future, better technologies and model refinements will allow other factors to be considered.

4.2 TMDLs, WLAs, and LAs

Table 4-1 presents the TMDLs and allocations for the subsegments in this report.

Table 4-1. Summary of TMDLs, WLAs, and LAs for Lake Pontchartrain Basin

Subsegment	Existing load	Percent reduction	Total allowable loading	∑ WLAs	∑ LAs
	lb/yr		lb/day		
040303	6.65	15%	1.6E-02	0.0E+00	1.6E-02
040401	3.76	42%	5.9E-03	0.0E+00	5.9E-03
040403	19.97	30%	3.8E-02	0.0E+00	3.8E-02
040501	13.90	49%	1.9E-02	0.0E+00	1.9E-02
040701	9.60	31%	1.8E-02	3.1E-04	1.8E-02
040801	6.01	40%	9.9E-03	4.0E-04	9.5E-03
040905	0.49	38%	8.3E-04	0.0E+00	8.3E-04
040906	0.59	38%	9.9E-04	0.0E+00	9.9E-04

4.2.1 Wasteload Allocation

The WLA portion of the TMDL is the total loading of a pollutant that is assigned to point sources. Of the point sources evaluated in these TMDLs, 10 were considered to have a reasonable potential to contain mercury in their discharge (Table 4-2). The point sources identified include municipal wastewater treatment facilities. Five MS4 municipalities discharge into the impaired subsegments. Urban stormwater runoff is not considered a significant source of mercury in the basins. No allocations were given to MS4s.

Table 4-2. Summary of WLAs for Lake Pontchartrain Basin

Agency interest (AI) #	Permit number	Outfall	Facility name	Facility outfall	Flow (gpd)	Type	Mercury load (lb/day)
040701							
19979	LA0038431	001	Amite City Town of - WWTP	Treated sanitary wastewater	1,300,000	Design	0.00013
33911	LA0042544	001	Independence Town of - WWTP	Treated sanitary wastewater	900,000	Design	0.00009
33972	LA0046051	001	Kentwood Town of - Sewerage Wastewater Treatment Facility	Treated sanitary wastewater	700,000	Design	0.00007
154673	LA0123897	001	Sewerage District #1 of Tangipahoa Parish - Nelson Development	Treated sanitary wastewater	250,000	Design	0.00003
040801							
18460	LA0084336	001	Covington City of - WWTP	Treated sanitary wastewater	2,630,000	Expected	0.00026
19208	LA0066567	001	Utilities of LA Inc - Green Brier Oxidation Pond	Treated sanitary wastewater	640,000	Expected	0.00006
31222	LA0105520	001	Artesian Utility Co Inc - Lake Ramsey Subdivision	Treated sanitary wastewater	120,000	Expected	0.00001
51671	LA0122645	001	Southeastern LA Water & Sewer Co LLC - Timber Branch II Subdivision	Treated sanitary wastewater	300,000	Design	0.00003
111355	LAR10C283	001	H2O Systems Inc - Penn Mill Lakes STF	Treated sanitary wastewater	190,000	Expected	0.00002
115894	LA0117927	001	Southeastern LA Water & Sewer Co LLC - Tallow Creek STP	Treated sanitary wastewater	146,000	Expected	0.00001

Little is known about the potential to discharge mercury for most of the dischargers. EPA believes it is appropriate to assume that discharges from the municipal wastewater treatment plants (WWTPs) discharging greater than 100,000 gpd in the watersheds will contain mercury concentrations of less than 12.0 ng/L. This methodology is consistent with the methodology in other EPA approved TMDLs, such as *Total Maximum Daily Loads (TMDLs) for Mercury in Fish Tissue for Coastal Bays and Gulf Waters of Louisiana* (USEPA 2005).

LDEQ's policy is to assess discharges for the reasonable potential to contain mercury. LDEQ's position is that all point sources do not discharge at a constant rate or at a constant mercury concentration equal to the water criterion for mercury. Where reasonable potential exists or where effluent analyses demonstrate mercury at levels above 12 ng/L in the effluent, the Louisiana Pollutant Discharge Elimination System (LPDES) permit will require developing a mercury minimization program or a mercury limitation or both will be placed in the permit to ensure compliance with the TMDL.

4.2.2 Load Allocation

The LA is the portion of the TMDL assigned to nonpoint sources such as atmospheric deposition and to natural background loadings. For these TMDLs, the LAs were calculated by subtracting the WLAs from the total TMDL allocation. LAs were not allocated to separate nonpoint sources because of the lack of available source characterization data. The LAs are presented in Table 4-1.

4.3 Margin of Safety

The MOS is the portion of the pollutant loading reserved to account for any uncertainty in the data. There are two ways to incorporate the MOS (USEPA 1991). One way is to incorporate it implicitly by using conservative model assumptions to develop allocations. The other way is to explicitly specify a portion of the TMDL as the MOS and use the remainder for allocations.

For this analysis, the MOS is implicit. Conservative assumptions in the TMDL process are the following:

- Calculations for mercury concentrations associated with total suspended solids loading from soil erosion to the water column assumed no loss of mercury from any mechanism during transport.
- Mercury loading to the 303(d)-listed subsegment was considered 100 percent available for uptake, bioaccumulation, and biomagnification by fish.
- There was an implicit MOS because a tissue methyl mercury endpoint is used when fish tissue analysis is based on total mercury measurements.
- For facilities with mercury permit limits, the permit limits were used to establish the mercury loads from the facilities. The actual discharge of mercury from the facilities is probably less.
- For municipal WWTPs with flows greater than 100,000 gpd, it was assumed that 12.0 ng/L of mercury was discharged from each facility. The actual discharge of mercury from the facilities might be less than that value.
- The REMSAD model overestimates the actual input based on a comparison to available Mercury Deposition Network (MDN) data.

5. Future Activities

5.1 Pollution Prevention

The key element of pollution prevention is *source reduction* through product substitution and innovation. From 1988 to 1997 the U.S. industrial demand for mercury dropped 75 percent (USEPA 2007a). Reductions in mercury use have been driven by voluntary efforts and by increasingly strict federal and state regulations such as the increasing regulation of mercury in products or outright bans on its use in products for which alternatives are available. For example, in 1996 EPA eliminated the use of mercury in most batteries under the Mercury Containing and Rechargeable Battery Management Act. Other voluntary measures, such as a commitment by the American Hospital Association to reduce the use of mercury-containing products, will continue to decrease the amount of mercury in the waste stream. Next to source reduction, *recycling* is fundamental to mercury pollution prevention. When mercury must be used and recycling is not possible, *proper disposal* is critical to reducing the potential for dispersion to the environment.

5.2 National Assurances

EPA estimates that 60 percent of the total mercury deposited in U.S. waterbodies, which contaminates fish, comes from domestic anthropogenic air emission sources (USEPA 1997). The largest emitters of mercury to the atmosphere are coal-fired power plants. Under the Clean Air Act Amendments of 1990, EPA issued stringent regulations to dramatically reduce and cap air pollutant emissions. Mercury emissions nationwide were reduced by 45 percent by the year 1999 compared to 1990 mercury emissions (USEPA 2007b). The benefit of the existing regulations resulted in a decrease of both mercury deposition and mercury concentration in fish tissue in the Florida Everglades in the past 10 years. Mercury emissions in south Florida have declined from a high of 3,000 kg/yr in 1991 to 250 kg/yr in 2000, with a corresponding reduction in mercury deposition from a high in 1998 of 26 $\mu\text{g}/\text{m}^2\text{-yr}$ to 17 $\mu\text{g}/\text{m}^2\text{-yr}$ and a corresponding decline in tissue concentrations of mercury in largemouth bass from 1.7 mg/kg in 1991 to 0.4 mg/kg in 2000 (USEPA 2003).

Section 112 of the Clean Air Act and 40 CFR Parts 61 and 63 (maximum achievable control technology [MACT] rules) will also continue to ensure reductions in air emissions over the next decade. MACT standards require sources to meet specific emissions limits on the basis of emissions levels already being achieved by many similar sources in the country. EPA also applies a risk-based approach to assess how those technology-based emissions limits are reducing risks to human health and the environment (USEPA 2007c).

Other emissions limitations issued by EPA include the following:

- **Municipal Waste Combustors (MWCs):** In 1995 EPA issued emission limits for MWCs based on MACT. The implementation date for new and existing MWCs was December 2000. Overall mercury emissions from MWCs were estimated to be 54 tons per year in 1990, and the regulation is expected to reduce mercury emissions from such facilities by at least 90 percent.
- **Medical Waste Incinerators (MWIs):** In August 1997 EPA issued emission limits for MWIs. The implementation date for new and existing MWIs was September 2002. Overall mercury emissions from MWIs are estimated to be reduced by 94 percent or more because of this regulation.
- **Hazardous Waste Combustors (HWCs):** In 1999 EPA issued emissions standards for HWCs, including cement kilns and lightweight aggregate kilns that burn hazardous waste. Overall mercury emissions from HWCs were estimated to be 2.5 percent of the total national mercury emissions in 1990. The regulation has not been implemented, pending final resolution of a lawsuit. Once it is fully implemented, mercury emissions from HWCs are expected to be reduced by at least 50 percent.
- **Chlor-alkali Plants:** Late in 2003 EPA issued a final regulation to reduce mercury emissions from chlorine production plants that rely on mercury cells. When the rule first became effective, 20 such plants were in the United States; today there are 9. The regulation, which requires a combination of controls for

point sources (such as vents) and management practices to address fugitive emissions will reduce mercury emissions from chlor-alkali plants by about 50 percent.

- **Industrial Boilers:** In September 2004 EPA issued a regulation to reduce emissions of mercury and other toxic air pollutants from industrial boilers that burn coal or other substances, such as wood, to produce steam. The steam is used to produce electricity or mechanical energy or to provide heat. The boilers are used at facilities like refineries, chemical and manufacturing plants, and paper mills, or they stand alone to provide heat for shopping malls and university heating systems. It is expected that the rule will reduce mercury emissions by one-third.

On March 15, 2005, EPA issued the first-ever federal rule to permanently cap and reduces mercury emissions from coal-fired power plants. The Clean Air Mercury Rule (CAMR) would have made the United States the first country in the world to regulate mercury emissions from coal-fired power plants. However, on February 8, 2008, the D.C. Circuit vacated CAMR and EPA's rule, removing power plants from the Clean Air Act list of sources of hazardous air pollutants. On May 3, 2011, EPA proposed the Mercury and Air Toxics Standards. The proposed standard was designed for power plants to limit mercury, acid gases, particles, and other toxic pollution from being released to the air, thus keeping an estimated 91 percent of the mercury in coal from being released. Currently, there are no national limits on the amount of mercury and other toxic air pollution released from power plant smokestacks (USEPA 2011a). The proposed standards are based on available control technologies and other practices that are already in use by the other electric generating units (EGUs) (USEPA 2011b).

In December 2008, a court decision temporarily maintained Clean Air Interstate Rule (CAIR) but directed EPA to issue a new rule to implement Clean Air Act requirements concerning the transport of air pollution across state boundaries. As a result on July 6, 2011, EPA finalized a rule that helps states reduce their air pollution to attain clean air standards. The Cross-State Air Pollution Rule requires 27 states to significantly improve air quality by reducing emissions from power plants pollution, such as ozone or fine particle pollution, to other states. The rule replaces EPA's 2005 CAIR (USEPA 2011c).

In March 2007 EPA provided guidance to states, territories, and tribes on listing waters impaired by atmospheric mercury under Clean Water Act section 303(d), also known as *subcategory 5m*. EPA provides information to states, territories, and tribes regarding a voluntary approach for listing waters impaired by mercury mainly from atmospheric sources. The approach uses Clean Water Act tools to encourage comprehensive state and regional mercury control programs. EPA recommends the voluntary approach for states that have in place a comprehensive mercury reduction program with elements recommended by EPA. Such states may separate their waters impaired by mercury primarily from atmospheric sources into a specific subcategory (5m) of their Clean Water Act section 303(d) lists. States using that approach may also defer development of TMDLs for mercury-impaired waters as a result of having implemented mercury-reduction programs. Rather than deferring action, the 5m approach recognizes states that are already taking action in advance of TMDLs to address their mercury sources and achieve environmental results earlier than required (USEPA 2007a).

5.3 State-level Assurances: LDEQ Statewide Mercury Program

EPA and LDEQ have taken key steps nationally and regionally toward reducing mercury emissions and the environmental and human health risks associated with mercury exposure. State and federal mercury air emission rules apply to facilities in Louisiana (LAC 33: III. Chapter 51). EPA expects that a combination of ongoing and future activities under the Clean Air Act will achieve reductions in air deposition of mercury that will enable progress toward achieving water quality standards.

If a facility is found to discharge mercury at levels above 12 ng/L, a mercury minimization plan may be required. EPA expects that Louisiana, as the duly authorized permitting authority, will determine any additional necessary elements of a mercury characterization/minimization plan, considering the size and nature of the affected facility. Local characteristics like water velocity, bed substrate, oxygen content, and microbial community structure all contribute to methylation potential. Because those characteristics have not been defined for each of the dischargers in each subsegment, there is a possibility that effluent containing mercury can cause localized exceedances of the criteria. Therefore, minimization plans, numeric limits, or both might be necessary to ensure that the discharge does not cause or contribute to an exceedance of the applicable water quality standards. Finally,

because of the uncertainty in the TMDL analysis, mercury minimization plans, numeric limits, or both might be necessary to ensure compliance with the water quality standards. Considering the large number of NPDES dischargers in the study area, LDEQ should develop a prioritization strategy for determining the need for additional permit requirements within each coastal basin. Through those actions, over the long term, it can be demonstrated that WLAs are being met.

LDEQ has identified mercury as one of its priorities. On June 2, 2006, it enacted the Louisiana Mercury Risk Reduction Act (Chapter 23 of Subtitle II of Title 30 of the *Louisiana Revised Statutes of 1950*, consisting of R.S. 30: 2571 through 2588). LDEQ intends to assess all sources of mercury to the environment in the state and to develop strategies to reduce public health risks associated with mercury. Before the act was developed, a series of public meetings were held with participation from various industry sectors and nongovernmental organizations. In addition, meetings on risk communication have been and continue to be conducted for enhancing public awareness of mercury and the risks of mercury exposure.

The approach of the Louisiana Mercury Reduction Act is intended to be exhaustive and comprehensive, looking at all sources of mercury along with methods of controlling releases to the environment. Action items are as follows:

- Restrictions on the sale of certain mercury-added products
- Labeling of mercury-added products
- Disposal ban and proper management of mercury in scrap metal facilities
- Phase-out of nonessential mercury-containing devices
- Collection of mercury-added products
- Disclosure for mercury-containing formulated products used in health care facilities
- Limitations on the use of elemental mercury
- Existing inventories
- State procurement preference for non-mercury-added products
- Only limited use of mercury-added devices by water and wastewater systems
- Enhanced public outreach to educate the public on efforts that can be conducted locally and within the home to support the mercury reduction initiative

LDEQ continues its aggressive commitment to implementing a comprehensive statewide mercury program. The following excerpts from the LDEQ publication, *Resource Guide to Understanding Mercury in Louisiana's Environment: 2003 Mercury Report*, highlight some of the management strategies that continue to advance attainment of the reduction goals defined by these TMDLs (LDEQ 2003):

- Design and construction regulations for landfills help to ensure that mercury-laden materials do not leak from them.
- Historically, electrical switches in some natural gas meters contained mercury. Spills from such meters contaminated the ground and became sources of mercury to the environment. Since 1991 several natural gas pipeline companies, with oversight from LDEQ, voluntarily cleaned the mercury from the environment around contaminated natural gas meter sites. As of 2005 approximately 5,000 sites had been checked for mercury contamination and 2,500 that had been contaminated were cleaned.
- Recycling played a large part in reducing not only the amount of mercury used by industries, but also the amount released to the environment. LDEQ's Recycling Section maintains a list of all recyclers in the state, sorted by commodity.

These TMDLs focus on the facilities likely to discharge mercury. Although every discharger has been assigned an individual WLA or is covered by the group WLA, EPA expects LDEQ to systematically identify any dischargers that are significant sources of mercury. EPA will work with LDEQ to establish mechanisms for demonstrating that the WLAs are being met. Mechanisms that could be used to demonstrate compliance include a certification process demonstrating that there are no known or suspected operations that could reasonably be expected to

discharge mercury. Effluent sampling might be necessary for dischargers that cannot meet the certification requirement. Sampling requirements, if applicable, should include sampling and analysis using clean methods. EPA Method 1631, which has a detection limit of 0.0002 µg/L or 0.2 ng/L, is available. In addition, EPA Method 1669 should be used for sampling guidance. Mercury monitoring to meet the requirements of these TMDLs should follow the procedures outlined in EPA Method 1631. With the additional data, EPA and LDEQ could consider the possibility of revising the TMDL at some point in the future if warranted.

5.4 Environmental Monitoring Activities

LDEQ uses funds provided under section 106 of the Clean Water Act and under the authority of the Louisiana Environmental Quality Act to run a program for monitoring the quality of Louisiana's surface waters. LDEQ's Surveillance Section collects surface water samples at various locations using appropriate sampling methods and procedures to ensure 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 are used to develop the state's biennial section 305(b) report (*Water Quality Inventory*) and the section 303(d) list of impaired waters (*Draft 2010 Integrated Report*).

LDEQ has implemented a rotating approach to surface water quality monitoring. Through that approach, the entire state is sampled on a 4-year cycle. Long-term trend monitoring sites at various locations on the larger rivers and Lake Pontchartrain are sampled throughout the cycle. Sampling is conducted monthly during a water year (October through September) to yield approximately 12 samples per site during each year the site is monitored. Sampling sites are located where they are considered representative of the waterbody. Under the current monitoring schedule, approximately one-half of the state's waters are newly assessed for section 305(b) and section 303(d) listing purposes for each biennial cycle. Monitoring allows LDEQ to determine whether any improvement in water quality occurred after the TMDLs had been implemented. LDEQ evaluates the monitoring results to generate the Integrated Report submitted by April 1 on even-numbered years. For more information, see *Louisiana's Water Quality Assessment Method and Integrated Report Rationale: 2010 Water Quality Integrated Report* (LDEQ 2010a). Over the past several years, LDEQ has worked to expand its statewide mercury monitoring program. The program's primary objective is to determine statewide mercury contamination levels of fish commonly eaten in Louisiana and mercury concentrations in sediments, water, and epiphytic plant material and mercury loadings from aerial deposition. LDEQ adheres to well-defined sampling procedures when collecting mercury data. The program is an important tool for LDEQ in evaluating the progress of the mercury reductions prescribed by the TMDLs. LDEQ's targeted data collection efforts in subsegments with fish consumption advisories will provide the data necessary to ultimately remove the fish consumption advisory or revise the TMDLs at some point in the future, if warranted. LDEQ has also implemented fish tissue and sediment monitoring. LDEQ periodically samples for mercury throughout the state at 400 sites. Areas that show elevated levels of mercury are sampled more frequently.

LDEQ's sampling site selection continues to evolve and is based on several needs. New sites are sampled to expand the number of waterbodies tested. Sites continue to be selected in basin subsegments in which no previous sampling occurred. Nearly all waterbodies with fish populations sufficient to support human health risk assessment inputs have been sampled for mercury contamination. Waterbodies that are under an advisory for mercury are resampled annually. Some waterbodies are resampled if the Louisiana Department of Health and Hospitals (LDHH) determines that additional samples are needed to make a decision regarding fish consumption advisories. Continued fish tissue data collection provides input for analyses of risks to human health from consuming mercury-contaminated fish. That also allows LDHH and LDEQ to address public concerns regarding the safety of fish consumption from many waterbodies.

Epiphytic plant material is used to help further define the significance of atmospheric sources of mercury. The results of epiphytic plant material analyses, together with fish tissue, water, and sediment concentration information, will continue to help address questions regarding sources of mercury. Additional local and statewide remedial actions can be more effectively targeted to reduce mercury sources by combining data generated from this and previous projects and the knowledge of LDEQ field personnel. The project will also provide baseline data that can be used for ongoing trend analysis.

Since October 1998, LDEQ has implemented an air monitoring program designed to assess the geographical extent and quantity of atmospheric mercury deposition. Monitors are at the Southeastern University Campus in Hammond, Louisiana; at McNeese State University in Lake Charles, Louisiana; at the Louisiana State University in Chase, Louisiana; and in Alexandria, Louisiana, in Rapides Parish. Samples are tested for wet deposition of total mercury during rainfall events. If rainfall occurs, samples are collected weekly. In addition, LDEQ will be able to track progress with atmospheric deposition through the MDN, which is part of the NADP. The program measures only wet deposition, but a goal of one working group is to measure dry deposition as well. LDEQ operates and sponsors a site in Tangipahoa Parish. The site has been collecting information since October 7, 1998.

The objective of the MDN is to develop a national database of weekly concentrations of total mercury in precipitation and the seasonal and annual flux of total mercury in wet deposition. The data will be used to develop information on spatial and seasonal trends in mercury deposited to surface waters, forested watersheds, and other sensitive receptors. The MDN began as a transition network of 13 sites in 1995. Beginning in 1996, MDN became an official network in NADP with 26 sites in operation. Now more than 85 sites are in operation. The network uses standardized methods for collection and analysis. Three stations in Louisiana (Lake Charles, Chase, and Hammond) have provided weekly data since October 1998, while the Alexandria station began collecting data in February 2001. The data show that mercury levels are being regularly detected in rainwater. NADP staff members analyze the data, and NADP will publish any future reports concerning deposition data (NADP–MDN 2007).

5.5 TMDL Implementation Strategies

Reasonable assurance is needed that the water quality criterion will be met. WLAs will be implemented through LPDES permit procedures. Part of the LAs might be implemented through LDEQ's 305(b) program. Most of the nonpoint source mercury load addressed by the LA is likely from atmospheric deposition.

TMDL implementation for atmospheric deposition will differ from traditional TMDL implementation. The implementation plan will include different strategies and regulatory controls, most likely on a national scale. Regulatory controls under the Clean Air Act will assume that reductions in mercury emissions will reduce mercury loadings. Because air emissions regulations are implemented gradually, reductions are expected to take a number of years. Progress could be measured by mercury wet deposition concentrations and mercury concentrations in the water column, sediment, and fish tissue.

Implementation of the TMDLs will follow LDEQ policy, which is to evaluate dischargers for the reasonable potential to discharge mercury. Where reasonable potential exists or where effluent analyses demonstrate mercury at levels above 12 ng/L in the effluent, the LPDES permit will require developing a mercury minimization program or a mercury limitation will be placed in the permit (or both) to ensure compliance with the TMDL.

The Clear Skies Initiative was first introduced in February 2002, but it has not yet been enacted. This mandatory federal program would reduce emissions from power plants. Clear Skies would reduce mercury by 69 percent over 1999 levels and have caps of 26 tons of emissions in 2010 and 15 tons in 2018 (USEPA 2007d). The initiative goes beyond the provisions of the Clean Air Act. The New Source Review section of the Clean Air Act requires only that power plants and manufacturing facilities ensure that modifications to their plants do not increase emissions. The Clear Skies Initiative, on the other hand, would require them to improve the quality of the emissions (USEPA 2007d).

During implementation of these TMDLs, EPA expects the following activities to occur:

- NPDES dischargers will develop and implement mercury minimization plans, as appropriate.
- Air emissions of mercury will be reduced by implementing the Clean Air Act regulation.
- LDEQ will collect additional ambient data on mercury concentrations in water, sediment, fish, and soil.
- LDEQ will develop and implement a mercury risk reduction plan that assesses all sources of mercury.

Two watershed coordinators have been hired to work with the Lake Pontchartrain Basin Foundation (LPBF) on stakeholder involvement for watershed plans. LDEQ's nonpoint source staff is also working with them to implement the plans and will be assigned additional watersheds to work on through the planning and implementation process. To address some of the known problems that exist in the basin, LDEQ has been implementing programs that address fecal coliform, dissolved oxygen, and mercury, which are the primary water

quality problems that have been identified in these waterbodies. The LPBF has implemented many programs to restore water quality and will be an important partner for LDEQ as TMDLs are implemented in the basin. Since much of the basin is included within the Coastal Zone Boundary, Louisiana Department of Natural Resources – Coastal Management Division will be working with LDEQ and LPBF on implementing management measures required through the Coastal Nonpoint Source Pollution Control Program (LDEQ 2010b).

6. Public Participation

Federal regulations require EPA to notify the public and seek comments concerning TMDLs that the Agency prepares. These TMDLs were developed under contract to EPA, and EPA held a public review period seeking comments, information, and data from the public and any other interested parties. The notice for the public review period is tentatively scheduled to be published in the *Federal Register* on November 15, 2011, and the review period tentatively set to close on December 31, 2011. Any comments will be reviewed, and these TMDLs may be revised if appropriate. If any comments are submitted they, will be included in a new appendix in the final TMDL along with EPA responses.

EPA will submit the final TMDL to LDEQ for implementation and incorporation into LDEQ's current WQMP.

7. References

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APPENDIX A: Point Source Discharge Information

Table A-1. NPDES permitted facilities.....A-1

Table A-1. NPDES permitted facilities

Sub-segment	AI	Permit #	Outfall	Outfall type	Facility name	Facility type	Exp. date	Receiving waterbody
040303	18658	LAG540314	001	Sanitary wastewater	Mo-Dad Utilities LLC - Gunboat Island Estates		06/30/13	Ditch to unnamed swamp to Amite River
040303	19439	LAG540477	001	Treated sanitary wastewater	French Settlement Elementary School		06/30/13	Ditch to King George Bayou to Amite River
040303	22348	LAG540760	001	Treated sanitary wastewater	Val's Marina I LLC		06/30/13	Unnamed ditch to Amite River
040303	42316	LAG540062	001	Treated sanitary wastewater	Maurepas High School	Educational Services	06/30/13	Unnamed ditch-Lake Maurepas
040303	42768	LAG540550	001	Treated sanitary wastewater	Paradise Point Services		no current permit online	Ditch to Paradise Point Canal to Amite River
040303	86831	LAG541017	001	Treated sanitary wastewater	French Settlement High School		06/30/13	Swamp land to Amite River to Lake Maurepas
040303	124713	LAG531973	001	treated sanitary wastewater	St Joseph Catholic Church - New Worship Center		11/30/12	LA Hwy 444 ditch to Palmetto Bayou to King George Bayou to Amite River
040303	144467	LAG532150	001	Sanitary wastewater	South Branch Library - Livingston Parish Library System - WWTP		11/30/12	LA HWY 444 ditch to Bayou Barbery to Amite River
040303	151033	LAG750607	001	Exterior vehicle and equipment wash wastewater	Island Carwash LLC	Automotive Repair, Services, and Parking	03/14/14	Roadside ditch to swamp to Amite River
040401	2532	LA0004847	105	Stormwater from areas south of the facility and gypsum stacks, equipment and material storage areas, employee parking lots, railcar activity areas	Mosaic Fertilizer LLC - Uncle Sam Plant	Agriculture Services	07/31/15	Bayou des Acadiens-Blind River
040401	2532	LA0004847	205	Stormwater from areas west of the gypsum stacks	Mosaic Fertilizer LLC - Uncle Sam Plant	Agriculture Services	07/31/15	Bayou des Acadiens-Blind River
040401	2532	LA0004847	305	Stormwater from areas north of the gypsum stacks	Mosaic Fertilizer LLC - Uncle Sam Plant	Agriculture Services	07/31/15	Bayou des Acadiens-Blind River
040401	7991	LAG530234	001	Treated sanitary wastewater	Sorrento Office Building - Kinder Morgan Bulk Term Inc	Office Bldg	11/30/12	Ditches and channel from back of facility across I-10 to Bayou Conway to Blind River
040401	9871	LAR05M758		MSGP	Gonzales Center - United Parcel Service	Courier Svcs	07/02/05	Ditch to Bayou Boyle
040403	1388	LA0079961	003	Stormwater	Noranda Alumina LLC	Alumina Plant	10/31/13	Drainage ditch to Blind River Swamp
040403	1388	LA0079961	004	Stormwater	Noranda Alumina LLC	Alumina Plant	10/31/13	Drainage ditch to Blind River Swamp
040403	1388	LA0079961	005	Stormwater and previously monitored sanitary wastewater	Noranda Alumina LLC	Alumina Plant	10/31/13	Drainage ditch to Blind River Swamp
040403	1388	LA0079961	006	Stormwater	Noranda Alumina LLC	Alumina Plant	10/31/13	Drainage ditch to Blind River Swamp

DRAFT—TMDLs for Mercury in Selected Subsegments in the Lake Pontchartrain Basin, Louisiana

Sub-segment	AI	Permit #	Outfall	Outfall type	Facility name	Facility type	Exp. date	Receiving waterbody
040403	2719	LA0006041	002	Process and non-process area stormwater, maintenance wastewater, and miscellaneous wastewater	Motiva Enterprises LLC - Convent Refinery	Petroleum Refining and Related Industries	10/31/15	Ascension ditch to St. James Canal to Blind River
040403	3420	LA0005606	001	Condensate, non-contact cooling water, stormwater, and treated sanitary wastewater	Ormet Primary Aluminum Corp - Burnside Alumina Plant	Indiv-Major-Industrial	05/31/15	Conway Canal to Panama Canal to Blind River
040403	3420	LA0005606	201	Treated sanitary wastewater	Ormet Primary Aluminum Corp - Burnside Alumina Plant	Indiv-Major-Industrial	05/31/15	Outfall 001
040403	3544	LA0056171	003	Potential stormwater, low contamination water used in systems (condensate, fire suppression system, freeze protection, etc.)	Occidental Chemical Corp - Convent Facility	Chemicals and Allied Products	10/31/15	Unnamed ditch to St. James Canal to Blind River
040403	4803	LA0064335	003	Noncontact stormwater, dust control water, wastewater from fire fighting, building washdown, groundwater	BFI Colonial Landfill	Sanitary muni solid waste & non-haz industrial solid waste landfill	07/31/14	Ditch to Panama Canal
040403	4803	LA0064335	004	Noncontact stormwater, dust control water, wastewater from fire fighting, building washdown, groundwater	BFI Colonial Landfill	Sanitary muni solid waste & non-haz industrial solid waste landfill	07/31/14	Ditch to Panama Canal
040403	4803	LA0064335	005	Stormwater and treated landfill wastewater	BFI Colonial Landfill	Sanitary muni solid waste & non-haz industrial solid waste landfill	07/31/14	Ditch to Panama Canal
040403	4803	LA0064335	006	Noncontact stormwater, dust control water, wastewater from fire fighting, building washdown, groundwater	BFI Colonial Landfill	Sanitary muni solid waste & non-haz industrial solid waste landfill	07/31/14	Ditch to Panama Canal
040403	7129	LAG531389	001	Treated sanitary wastewater	Transco: Compressor Station No. 63 - Williams Field Services Co	Natural gas compression	11/30/12	Onsite ditch to St James Parish canal to Blind River
040403	8142	LAR05P138		MSGP stormwater	Darrow Field Facility - Darrow Field	Oil and Gas Extraction	04/30/11	Bayou Conway
040403	9228	LA0060763	002	Washdown water and stormwater	Grain Terminal Facility - Zen-Noh Grain Corp	Grain Storage & Shipment	09/30/14	Local drainage ditches to St James Canal to Blind River
040403	9228	LA0060763	003	Washdown water and stormwater	Grain Terminal Facility - Zen-Noh Grain Corp	Grain Storage & Shipment	09/30/14	Local drainage ditches to St James Canal to Blind River
040403	9228	LA0060763	103	Treated sanitary wastewater	Grain Terminal Facility - Zen-Noh Grain Corp	Grain Storage & Shipment	09/30/14	Outfall 003



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Sub-segment	AI	Permit #	Outfall	Outfall type	Facility name	Facility type	Exp. date	Receiving waterbody
040403	11231	LA0064637	002	Stormwater	SMR hydrogen production plant - Air Products & Chemicals Inc	Hydrogen production	05/31/16	Unnamed roadside ditch to St James Canal to Blind River
040403	11231	LA0064637	003	Stormwater	SMR hydrogen production plant - Air Products & Chemicals Inc	Hydrogen production	05/31/16	Unnamed roadside ditch to St James Canal to Blind River
040403	11231	LA0064637	006	Treated sanitary wastewater	SMR hydrogen production plant - Air Products & Chemicals Inc	Hydrogen production	05/31/16	Unnamed roadside ditch to St James Canal to Blind River
040403	11416	LAG530096	001	Treated sanitary wastewater	Sorrento Underground Gas Storage Facility - Bridgeline Gas Distribution Co.	Underground gas storage	11/30/12	Swamp in Old New River drainage to Blind River
040403	12806	LA0053571	003	Stormwater and equipment washwater	Archer Daniels Midland Growmark River Systems Inc - St Elmo Facility	Grain Elevator	01/31/14	Ditches to St James Canal to Blind River
040403	14575	LAG531390	001	Treated sanitary wastewater	Compressor Station No. 64 - Williams Field Services Co	Natural gas compression and storage	11/30/12	Roadside ditch to unnamed parish canal to Blind River
040403	17424	LAU009143			Longview Supermarket	General Agency Interest		Drainage ditch
040403	18982	LAG750042	001	Exterior vehicle wash water and wastewater	Grand Point Car Wash	Car Wash	03/14/14	Ditches to St James Canal to Blind River
040403	19234	LAG540679	001	Treated sanitary wastewater	Convent STP - St James Ph Housing Authority	Municipal STP-Housing Project	06/30/13	Ditch to Bayou des Acadiens to St. James Parish canal to Blind River
040403	19235	LAG540678	001	Treated sanitary wastewater	Central Union Housing Project - St James Ph Housing Authority	STP	06/30/13	Unnamed canal to St. James Parish canal to Blind River
040403	20506	LAG530193	001	Treated sanitary wastewater	Sorrento Pipeline & Truck Terminal - Enterprise Products Operating LP	Pipeline and truck terminal	11/30/12	Unnamed stream to Old New River to Bayou Conway to Blind River
040403	25891	LAU005597			Motiva Enterprises LLC - Sorrento Off Site Storage Caverns Facility	Electric, Gas, and Sanitary Services		
040403	30233	LAR05M269		Stormwater, MSGP	Waste Management St James Parish Non-processing Transfer Station	Electric, Gas, and Sanitary Services	03/09/13	Colonial canal
040403	32804	LA0087777	001	Stormwater, wastewater, and previously monitored sanitary waste	Gramercy Coke Plant - CII Carbon, LLC	Calcining of Green Petr. Coke	03/31/12	Kaiser Aluminum West Ditch to Blind River Swamp
040403	33632	LAR05M444		MSGP stormwater	Lafarge North America Inc - Gramercy Plant	Stone, Clay, Glass, and Concrete Products	04/30/11	Gramercy Town Canal
040403	37099	LA0108898	001	Treated sanitary wastewater	Sorrento Super Stop	Indiv-Minor Industrial truck stop and restaurant	03/31/12	Local drainage to Panama Canal
040403	37099	LA0108898	002	Wash water and stormwater runoff	Sorrento Super Stop	Indiv-Minor Industrial truck stop and restaurant	03/31/12	Local drainage to Panama Canal

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Sub-segment	AI	Permit #	Outfall	Outfall type	Facility name	Facility type	Exp. date	Receiving waterbody
040403	41134	LA0104744	003	Treated vehicle wash and wastewater	Darrow Maintenance Facility - Cooper/T. Smith Stevedoring Co., Inc.	Stevedoring - maintenance shop	05/31/15	Local drainage to Bayou Conway
040403	41134	LA0104744	004	Treated sanitary wastewater	Darrow Maintenance Facility - Cooper/T. Smith Stevedoring Co., Inc.	Stevedoring - maintenance shop	05/31/15	Local drainage to Bayou Conway
040403	42443	LAG540037	001	Treated sanitary wastewater	McDonald's - McBR Management Co	Fast food restaurant	11/30/12	Hwy 22 ditch to Panama Canal to Bayou Conway to Blind River
040403	43064	LAG540615	001	Treated sanitary wastewater	Riverlands Apts I & II - RLA Ltd A Partnership	apartments	06/30/13	Ditch to St James Parish Canal to Blind River
040403	43268	LAG570047	001	Treated sanitary wastewater	Sorrento Municipal STP; Sorrento Town of - STP	3 Cell aerated lagoon	04/30/14	Unnamed drainage ditch to Bayou Conway to Blind River
040403	43367	LAG540675	001	Treated sanitary wastewater	St James Parish Detention Center	Adult detention ctr	06/30/13	Canatetta Subdivision Ditch to St James Canal to Bayou des Acadiens to Lake Maurepas
040403	43368	LAG540674	001	Treated sanitary wastewater	Convent Courthouse - St James Par Council	Public govt bldg	06/30/13	Canatetta Subdivision Ditch to St James Canal to Bayou des Acadiens to Lake Maurepas
040403	67572	LA0002771	004	Stormwater	Burnside H2SO4 Plant - E I DuPont DeNemours & Co Inc	Sulfuric acid plt	04/30/16	Ditches to Panama Canal to Bayou Conway to Blind River
040403	67572	LA0002771	005	Stormwater and hydrostatic test water	Burnside H2SO4 Plant - E I DuPont DeNemours & Co Inc	Sulfuric acid plt	04/30/16	Ditches to Panama Canal to Bayou Conway to Blind River
040403	67572	LA0002771	104	Hydrostatic test waters	Burnside H2SO4 Plant - E I DuPont DeNemours & Co Inc	Sulfuric acid plt	04/30/16	Ditches to Panama Canal to Bayou Conway to Blind River
040403	80570	LAG531030	001	Treated sanitary wastewater	Manresa Retreat House	Religious retreat	11/30/12	Ditch to Bayou des Acadiens to St James Canal
040403	88012	LAG380043	001	Clarifier sludge and filter backwash	St James Parish Utilities - Convent Water Treatment	Electric, Gas, and Sanitary Services	06/30/15	Pipe to local drainage to Blind River
040403	88748	LAG541553	001	Treated sanitary wastewater	Romeville Elementary School	Educational Services	06/30/13	Unnamed ditch to St. James Parish Canal to Blind River
040403	100651	LAG531311	001	Treated sanitary wastewater	Louis Dreyfus Olefins LLC - Convent Gas Plant	Gen-LAG53-Sanitary Class I	11/30/12	Unnamed ditch to St. James Parrish Canal to Blind River
040403	100651	LAR05N659		MSGP stormwater	LDH Energy Refinery Services LLC - Sorrento Gas Processing	Oil and Gas Extraction	04/30/11	?
040403	104970	LAG750444	001	Wash wastewater	Gramercy Car Wash - Milton Lambert	Vehicle wash	03/14/14	Local drainage to Ferrero Canal to Gramercy Town Canal to St James Canal System
040403	107769	LAR05N548	001	MSGP stormwater	Jeffco Transportation Ltd	Services, not elsewhere classified	04/30/11	Ditch to St. James Parish Canal

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Sub-segment	AI	Permit #	Outfall	Outfall type	Facility name	Facility type	Exp. date	Receiving waterbody
040403	116997	LAG570452	001	Treated sanitary wastewater	Hillaryville - WWTP	Electric, Gas, and Sanitary Services	08/31/13	Unnamed drainage ditch to Bayou Conway to Blind River
040403	120995	LAR05N745	007	MSGP stormwater	Air Products & Chemicals Inc - SMR Facility	Chemicals and Allied Products	04/30/11	Pipe to St. James Canal
040403	133075	LAG570351	001	Treated sanitary wastewater	Ascension Parish Dept of Public Works - Darrow WWTP	Gen-LAG57-Sanitary Class IV	04/30/14	Unnamed ditch, unnamed tributary, Panama Canal, Bayou Conway to Blind River
040403	137590	LAG570368	001	Treated sanitary wastewater	Sugar Hill LLC - Sugar Hill	Real Estate	04/30/14	Unnamed ditch to St. James Canal to Blind River
040403	146727	LAR10D839		Construction stormwater	Petron LLC - Petron Development Construction	Real Estate	09/30/14	Perennial stream to Boyle Bayou
040403	147408	LAG532209	001	Sanitary and food service discharge	AEP Elmwood - Convent Office STP	Nonclassifiable Establishments	11/30/12	Ditch to Bayou des Acadiens to St. James parish Canal to Blind River
040403	153413	LA0123277	001	Treated sanitary wastewater	Ascension Wastewater Treatment Inc - Orange Grove Subdivision – WWTP	Nonclassifiable Establishments	05/31/15	Drainage ditch to Panama Canal, to Bayou Conway, to Blind River
040403	154751	LAG570447	001	Treated sanitary wastewater	LA Community & Technical College System - River Parishes Community College	Educational Services	04/30/14	Pipe to Bayou Conway to Blind River
040403	155577	LA0123803	001	Treated wastewater and treated washwater	Gonzales Facility - Central Gulf Services LLC	Nonclassifiable Establishments	10/31/13	Drainage ditch to Boyle Bayou to Bayou Conway to Blind River
040403	156050	LAG532684	001	Sanitary wastewater	Lloyds 1 Stop - WWTP	Food Stores	11/30/12	Pipe to unnamed ditch to Bayou des Acadiens to Blind River
040403	156482	LAG532806	001	Treated sanitary wastewater	Market South Investors LLC - Four Seasons Self Storage	Motor Freight Transportation and Warehousing	11/30/12	Hwy 44 ditch to Hackett Canal to Panama Canal
040403	157847	LA0123587	001	Industrial stormwater and previously monitored treated sanitary wastewater	Consolidated Environmental Management Inc - Nucor Steel Louisiana	Primary Metal Industries	08/31/15	Maurepas Swamp via local drainage
040403	160601	LAG541698	001	Treated sanitary wastewater	Hambrick Properties LLC - Sorrento Trailer Park	Real Estate	06/30/13	Obdenmeyer Canal to Bayou Conway to Blind River
040403	161182	LAR10F386		Construction stormwater	Transcontinental Gas Pipe Line Corp - Hester Storage Facility & Lateral	Nonclassifiable Establishments	09/30/14	Unnamed ditch through several reaches to Blind River
040403	165286	LAR10G072		Stormwater	Louisiana Sugar Refining LLC - Louisiana Sugar Refining (Gramercy)	Food and Kindred Products	09/30/14	Blind River
040403	169118	LAR10G224		Construction stormwater	Orange Grove - Renaissance Orange Grove LLC	Nonclassifiable Establishments	09/30/14	Pipes/drainage swales to Panama Canal to Hackett Canal to Mississippi River
040501	71	LA0111724	002	Equipment washing wastewater, groundwater infiltrate, air condensate	Gulf South Pipeline Co LP - Montpelier Compressor Station	Electric, Gas, and Sanitary Services	07/31/11	Ditch to Bear Creek to Tickfaw River

DRAFT—TMDLs for Mercury in Selected Subsegments in the Lake Pontchartrain Basin, Louisiana

Sub-segment	AI	Permit #	Outfall	Outfall type	Facility name	Facility type	Exp. date	Receiving waterbody
040501	2961	LA0121398	001	Shipping water, treated sanitary wastewater and stormwater	MCM Plastics Inc - Sterling Inc	General Agency Interest	10/31/10	Local drainage to Big Branch to Tickfaw River
040501	6858	LA0051969	001	Process wastewater consisting of kitchen grease separation water, washdown wastewater from process area, boiler blowdown, and stormwater runoff	Griffin Industries Inc	Food and Kindred Products	03/31/12	Unnamed ditch to Tickfaw River
040501	18184	LAG540479	001	Treated sanitary wastewater	Holden High School	Educational Services	06/30/13	Mayhow Branch to Big Branch to Lizard Creek to Blood River to Tickfaw River
040501	19437	LA0039179	001	Treated sanitary wastewater	Livingston Town of - Sewage District Plant #1	General Agency Interest	01/31/16	Beaver Pond Branch to Hog Branch to Tickfaw River
040501	19872	LA0071137	001	Treated discharge of operational reactor and pad washwater, stormwater, cooling tower blowdown, boiler blowdown, laboratory wastewater, sanitary wastewater	Amerchol Corp	Chemicals and Allied Products	10/31/10	Bracheen Branch to Spring Branch to Richfaw River
040501	19872	LA0071137	002	Low contamination potential stormwater runoff	Amerchol Corp	Chemicals and Allied Products	10/31/10	Bracheen Branch to Spring Branch to Richfaw River
040501	19875	LA0056421	001	Treated sanitary wastewater	Weyerhaeuser NR Co - Holden Wood Products	Lumber and Wood Products, Except Furniture	05/31/13	Ditch to Big Branch to Tickfaw River
040501	19875	LA0056421	001	Noncontact cooling water	Weyerhaeuser NR Co - Holden Wood Products	Lumber and Wood Products, Except Furniture	05/31/13	Ditch to Big Branch to Tickfaw River
040501	19875	LAR05P075		MSGP	Weyerhaeuser NR Co - Holden Wood Products	Lumber and Wood Products, Except Furniture	04/30/11	Ditch to Hog Branch
040501	23946	LAG531198	001	Treated sanitary wastewater	Bayou Railcar Services Inc	Fab. Metal Prod., Exc. Mach. and Trans. Equip.	11/30/12	Local drainage to Hog Branch to Tickfaw River to Lake Maurepas to Lake Pontchartrain
040501	27615	LAR05M812		Stormwater	Action Oil Recovery Inc	Wholesale Trade-durable Goods	04/30/11	Unnamed ditch to Tickfaw River
040501	41640	LAG530225	001	Treated sanitary wastewater	Graceland Apartment Partnership	Hotels, Camps, and Other Lodging Places	11/30/12	Unnamed ditch to Yellow Water Diversion Canal to Yellow Water Creek to Natalbany River to Lake Maurepas
040501	41661	LA0038243	001	Treated sanitary wastewater	Greensburg Town of - WWTP	General Agency Interest	09/30/12	Ditch to Joseph Branch to Tickfaw River
040501	43363	LAG540671	001	Treated sanitary wastewater	St Helena Central Elementary School	Educational Services	06/30/13	Unnamed creek to 12-Mile Creek to Tickfaw River



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040501	43364	LAG540672	001	Treated sanitary wastewater	St Helena Central Middle School	Educational Services	06/30/13	Unnamed creek to 12-Mile Creek to Tickfaw River
040501	74604	LAG750796	001	Exterior vehicle and equipment wash wastewater	LADOTD - Greensburg Maintenance Unit	State Agency	03/14/14	Local drainage to Tickfaw River
040501	84111	LAG541058	001	Treated sanitary wastewater	Lucky Magnolia Truck Plaza & Casino		06/30/13	Local drainage to Claibourne Branch
040501	86156	LAG490014	001	Process wastewater and process area stormwater discharges	Kentwood Brick & Tile Co Inc - Greensburg Plant	Stone, Clay, Glass, and Concrete Products	01/31/15	Local drainage to Hoffman Creek
040501	101455	LAG750433	001	Treated exterior vehicle wash wastewater	A&A Car Wash	Automotive Repair, Services, and Parking	03/14/14	Local drainage to Tickfaw River
040501	111326	LAR05N421		Stormwater	LADOTD - Montpelier Maintenance Yard	Motor Freight Transportation and Warehousing	04/30/11	Bear Creek
040501	118113	LAG541356	001	Treated sanitary wastewater	Timothy J Cutrer LLC - Salem Street Mobile Home Court - WWTP	Electric, Gas, and Sanitary Services	06/30/13	Local drainage to Joseph Branch to Tickfaw River
040501	154896	LAG532541	001	Treated sanitary wastewater	US Postal Service - Holden Post Office	Federal Agency	11/30/12	Unnamed ditch to unnamed creek to Tickfaw River
040501	163785	LAG541732	001	Treated sanitary wastewater	Bebo's Casino	Nonclassifiable Establishments	06/30/13	Effluent pipe to Creek lateral to Crittendon Creek to Tickfaw River
040501	166585	LAG533233	001	Treated sanitary wastewater	J3 Investments LLC	Building Construction	11/30/12	Effluent pipe to unnamed ditch to Beaver Pond Branch to Hog Branch to Tickfaw River
040501	168124	LAR10G118		Stormwater	Abita View Apartments - Abita View Apartments LLC	Nonclassifiable Establishments	09/30/14	Pipe to Abita River to Lake Pontchartrain
040701	2093	LAR05M535		MSGP	Bradken - Amite Inc	Primary Metal Industries	04/30/11	Tangipahoa River
040701	13480	LAR05N678		MSGP	Seasafe Inc	General Agency Interest	04/30/11	Vermillion River
040701	15607	LAG470215	001	Washrack wastewater	Robert Station Inc	Automotive Repair, Services, and Parking	08/31/14	Pole Bridge Branch to Tangipahoa River
040701	15607	LAG470215	002	Maintenance and repair shop floor wastewater	Robert Station Inc	Automotive Repair, Services, and Parking	08/31/14	Pole Bridge Branch to Tangipahoa River
040701	15607	LAG470215	003	Paint booth washdown and wet sanding wastewater	Robert Station Inc	Automotive Repair, Services, and Parking	08/31/14	Pole Bridge Branch to Tangipahoa River
040701	15607	LAG470215	004	Potentially contaminated stormwater	Robert Station Inc	Automotive Repair, Services, and Parking	08/31/14	Pole Bridge Branch to Tangipahoa River
040701	15607	LAG470215	005	Treated sanitary wastewater	Robert Station Inc	Automotive Repair, Services, and Parking	08/31/14	Pole Bridge Branch to Tangipahoa River
040701	15607	LAG470215	006	Commingled washrack and sanitary wastewater	Robert Station Inc	Automotive Repair, Services, and Parking	08/31/14	Pole Bridge Branch to Tangipahoa River

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040701	19031	LAG530489	001	Treated sanitary wastewater	Shell Exploration & Production Co - Robert Training Center	Electric, Gas, and Sanitary Services	11/30/12	Pole Bridge Branch to Tangipahoa River
040701	19189	LAG570157	001	Treated sanitary wastewater	Tangipahoa Village of – WWTP	Electric, Gas, and Sanitary Services	03/14/09	Cline Branch to Tangipahoa River
040701	19979	LA0038431	001	Treated sanitary wastewater	Amite City Town of – WWTP	Electric, Gas, and Sanitary Services	03/31/15	Tangipahoa River
040701	25963	LAG480352	001	Treated sanitary wastewater	Smitty's Supply Inc	Petroleum Refining and Related Industries	07/31/06	Tangipahoa River
040701	25963	LAG480352	002	Treated sanitary wastewater	Smitty's Supply Inc	Petroleum Refining and Related Industries	07/31/06	Tangipahoa River
040701	25963	LAG480352	003	Exterior vehicle and equipment washwater, equipment repair area washdown, shop floor washdown, dock washdown, and utility wash water, with soaps and/or detergents and stormwater runoff	Smitty's Supply Inc	Petroleum Refining and Related Industries	07/31/06	Tangipahoa River
040701	25963	LAG480352	004	Exterior vehicle and equipment washwater, equipment repair area washdown, shop floor washdown, dock washdown, and utility wash water, with soaps and/or detergents and stormwater runoff	Smitty's Supply Inc	Petroleum Refining and Related Industries	07/31/06	Tangipahoa River
040701	25963	LAG480352	various	Stormwater runoff	Smitty's Supply Inc	Petroleum Refining and Related Industries	07/31/06	Tangipahoa River
040701	26313	LAG531941	001	Treated sanitary wastewater	Grady Crawford Construction Co Inc	General Agency Interest	11/30/12	Pole Bridge Branch to Washley Creek to Tangipahoa River
040701	33911	LA0042544	001	Treated sanitary wastewater	Independence Town of - WWTP	Electric, Gas, and Sanitary Services	04/30/09	Tangipahoa River
040701	33914	LAG480248	001	Treated sanitary wastewater	Sassone's Inc	Lumber and Wood Products, Except Furniture	11/30/15	Terry's Creek to Tangipahoa River
040701	33914	LAG480248	002	Treated sanitary wastewater	Sassone's Inc	Lumber and Wood Products, Except Furniture	11/30/15	Terry's Creek to Tangipahoa River
040701	33914	LAG480248	003	Treated sanitary wastewater	Sassone's Inc	Lumber and Wood Products, Except Furniture	11/30/15	Terry's Creek to Tangipahoa River
040701	33914	LAG480248	004	Exterior vehicle washwater	Sassone's Inc	Lumber and Wood Products, Except Furniture	11/30/15	Terry's Creek to Tangipahoa River
040701	33914	LAG480248	various	Industrial stormwater runoff and authorized non-stormwater discharges	Sassone's Inc	Lumber and Wood Products, Except Furniture	11/30/15	Terry's Creek to Tangipahoa River



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040701	33972	LA0046051	001	Treated sanitary wastewater	Kentwood Town of - Sewerage Wastewater Treatment Facility	Municipal Agency	10/31/12	Terrys Creek to Tangipahoa River
040701	42579	LAG560060	001	Treated sanitary wastewater	Yogi Bear's Jellystone Park	Electric, Gas, and Sanitary Services	05/31/14	Washley Creek to Tangipahoa River
040701	42936	LAR05M020		MSGP	Land O'Lakes Purina Feed LLC - Arcola Mill	Business Services	04/30/11	Tangipahoa River
040701	43024	LAG530983	001	Treated sanitary wastewater	Regina Coeli Child Development Center	General Agency Interest	11/30/12	Tangipahoa River
040701	43468	LAG560131	001	Treated sanitary wastewater	Hammond Eastside School - WWTP	General Agency Interest	05/31/14	Ditch to Skulls Creek to Tangipahoa River
040701	43469	LAG560164	001	Treated sanitary wastewater	Sewerage District #1 of Tangipahoa Parish - Green Acres Subdivision	General Agency Interest	05/31/14	Skull Creek to Tangipahoa River
040701	43488	LAG570149	001	Treated sanitary wastewater	Tangipahoa Parish Sewerage District #1 - Velma STP	Electric, Gas, and Sanitary Services	04/30/14	Tangipahoa River
040701	51483	LAR05N550		MSGP	Coon's Auto Salvage & Wrecking Service	Wholesale Trade-durable Goods	04/30/11	Tangipahoa River
040701	68806	LAG531832	001	Treated sanitary wastewater	River Road Store	General Agency Interest	11/30/12	Skulls Creek
040701	71757	LAG531765	001	Treated sanitary wastewater	Robert Supermarket	Food and Kindred Products	11/30/12	Pole Bridge Branch to Tangipahoa River
040701	74410	LAG541397	001	Treated sanitary wastewater	B&J's Grocery Inc	Food Stores	06/30/13	Washley Creek to Tangipahoa River
040701	74421	LAG532845	001	Treated sanitary wastewater	Hilltop Market & Deli	Food and Kindred Products	11/30/12	Tangipahoa River
040701	74588	LAR05N299		MSGP	LADOTD - Kentwood Maintenance Unit	State Agency	04/30/11	Tangipahoa River
040701	83646	LAG540972	001	Treated sanitary wastewater	Mo-Dad Utilities LLC - Brady Place Subdivision	Electric, Gas, and Sanitary Services	06/30/13	Pollard Branch
040701	85480	LAG540993	001	Treated sanitary wastewater	Mo-Dad Utilities LLC - Country Rivers Subdivision	Ind. and Comm. Machinery and Computer Equipment	06/30/13	Local to Tangipahoa River
040701	85997	LAG480070	001	Exterior vehicle washwater	State of LA Military Detachment 1 Co B	State Agency	07/31/06	Pipe to unnamed pond to Tangipahoa River
040701	86462	LAG540990	001	Treated sanitary wastewater	Quad-Area Community Action Agency Inc - Migrant Farm Workers Housing Project	Electric, Gas, and Sanitary Services	06/30/13	Ditch to parish drainage to Tangipahoa River
040701	87827	LAG531155	001	Treated sanitary wastewater	Regina Coeli Child Development Center - Robert Head Start	Social Services	11/30/12	Hwy 190 ditch to Tangipahoa River
040701	103886	LAG541180	001	Treated sanitary wastewater	Cannon Manor Mobile Home Park	Hotels, Camps, and Other Lodging Places	06/30/13	Tangipahoa River
040701	111348	LAR05N403		MSGP	LADOTD - Robert Maintenance Yard	Motor Freight Transportation and Warehousing	04/30/11	Chappepeela Creek
040701	113232	LAR05N441		MSGP	Consolidated Container Co LLC - Kentwood Plastics	Rubber and Miscellaneous Plastics Products	04/30/11	Button River
040701	117950	LAG531910	001	Treated sanitary wastewater	Twin Lane Mobile Home Park	Electric, Gas, and Sanitary Services	11/30/12	Skulls Creek to Tangipahoa River

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040701	118960	LAG541175	001	Treated sanitary wastewater	Camp Living Waters	Nonclassifiable Establishments	06/30/13	Tangipahoa River
040701	121799	LAG541240	001	Treated sanitary wastewater	Nature's Trace Apartments II - WWTP Construction	Nonclassifiable Establishments	06/30/13	Skulls Creek to Tangipahoa River
040701	123342	LAG531722	001	Treated sanitary wastewater	David Wayne Morgan - Brickyard Apartments WWSTP	Real Estate	11/30/12	Tangipahoa River
040701	124141	LAG490046	003	Process wastewater and process area stormwater discharges to receiving streams or their tributaries not designated as scenic streams or as primary contact recreation water bodies	Sumner Dirt Pit	Min. & Quarrying of Nonmet. Min., Exc. Fuels	01/31/15	Spring Branch to Tangipahoa River
040701	126298	LAG531896	001	Treated sanitary wastewater	Robert Dollar General	Electric, Gas, and Sanitary Services	11/30/12	Pole Bridge Branch to Washley Creek to Tangipahoa River
040701	126337	LAG531788	001	Treated sanitary wastewater	Ched's Golf Cars of America Inc	Nonclassifiable Establishments	11/30/12	Pole Bridge Branch
040701	128245	LAG531913	001	Treated sanitary wastewater	Cooter Brown's Seafood	Electric, Gas, and Sanitary Services	11/30/12	Pole Bridge Branch to Washley Creek to Tangipahoa River
040701	128261	LAG541347	001	Treated sanitary wastewater	Country View Mobile Home Park - Country View Apartments	Electric, Gas, and Sanitary Services	06/30/13	Tangipahoa River
040701	128348	LAG541345	001	Treated sanitary wastewater	Evergreen Mobile Home Park	Electric, Gas, and Sanitary Services	06/30/13	Skulls Creek to Tangipahoa River
040701	129927	LAG541515	001	Treated sanitary wastewater	Rock Ridge Subdivision	Real Estate	06/30/13	Spring Branch to Tangipahoa River
040701	133476	LAG541456	001	Treated sanitary wastewater	William Blake & Pamela T Cannon - River Oaks Mobile Home Park	Real Estate	06/30/13	Skulls Creek to Tangipahoa River
040701	136087	LAG541664	001	Treated sanitary wastewater	Eastern Heights Apartments - Reno Properties LLC	Real Estate	06/30/13	Hwy 190 ditch to Tangipahoa River
040701	138825	LAG541659	001	Treated sanitary wastewater	Density Services LLC - Brenton Place	Real Estate	06/30/13	Reedy Branch to Tangipahoa River
040701	141367	LAG532171	001	Treated sanitary wastewater	Countryside Mobile Homes	Nonclassifiable Establishments	11/30/12	Tangipahoa River
040701	141367	LAG532171	002	Treated sanitary wastewater	Countryside Mobile Homes	Nonclassifiable Establishments	11/30/12	Tangipahoa River
040701	141368	LAG532295	001	Treated sanitary wastewater	Johnson Mobile Home Park	Nonclassifiable Establishments	11/30/12	Hwy 10 ditch to Tangipahoa River
040701	141368	LAG532295	002	Treated sanitary wastewater	Johnson Mobile Home Park	Nonclassifiable Establishments	11/30/12	Hwy 10 ditch to Tangipahoa River
040701	141368	LAG532295	003	Treated sanitary wastewater	Johnson Mobile Home Park	Nonclassifiable Establishments	11/30/12	Hwy 10 ditch to Tangipahoa River
040701	141690	LAG570420	001	Treated sanitary wastewater	S&P Land Co LLC - Fox Hollow Subdivision	Nonclassifiable Establishments	04/30/14	Skulls Creek to Tangipahoa River
040701	141744	LAG532157	001	Treated sanitary wastewater	Larry Tycer Apartments	Real Estate	11/30/12	Tangipahoa River
040701	149914	LAR10G031		Stormwater - GP	LA Homes Inc - Emerald Estates Subdivision	Real Estate		Pole Bridge Branch



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040701	150747	LAR10G339		Stormwater - GP	Coves of the Highlands Subdivision - MGD Partners LLC	Construction Special Trade Contractors		Washley Creek to Tangipahoa River
040701	152578	LAG541663	001	Treated sanitary wastewater	Density Utilities of Louisiana LLC - Jaelyn Parc Sewage Treatment Facility	Real Estate	11/30/12	Lanier Creek to Tangipahoa River
040701	154673	LA0123897	001	Treated sanitary wastewater	Sewerage District #1 of Tangipahoa Parish - Nelson Development	Electric, Gas, and Sanitary Services	10/31/13	Lanier Creek to Tangipahoa River
040701	154903	LAG532545	001	Treated sanitary wastewater	US Postal Service - Robert Post Office	Nonclassifiable Establishments	11/30/12	Pole Bridge Branch to Washley Creek to Tangipahoa River
040701	155662	LAG541606	001	Treated sanitary wastewater	River Bend Estates - Cherokee Properties LLC	Electric, Gas, and Sanitary Services	06/30/13	Tangipahoa River
040701	158808	LAG490093	004	Treated sanitary wastewater	SGM Investments LLC	Min. & Quarrying of Nonmet. Min., Exc. Fuels	01/31/15	Tangipahoa River
040701	158808	LAG490093	005	Stormwater runoff	SGM Investments LLC	Min. & Quarrying of Nonmet. Min., Exc. Fuels	01/31/15	Tangipahoa River
040701	158921	LAG533447	001	Treated sanitary wastewater	LADOTD - Independence Area	Electric, Gas, and Sanitary Services	11/30/12	Tangipahoa River
040701	160174	LAG490083	001	Process wastewater and process area stormwater discharges to designated scenic streams and their tributaries	Lawson-Bone't Construction Inc	Min. & Quarrying of Nonmet. Min., Exc. Fuels	01/31/15	Tangipahoa River
040701	160174	LAG490083	002	Process wastewater and process area stormwater discharges to primary contact recreation water bodies	Lawson-Bone't Construction Inc	Min. & Quarrying of Nonmet. Min., Exc. Fuels	01/31/15	Tangipahoa River
040701	160174	LAG490083	003	Process wastewater and process area stormwater discharges to receiving streams or their tributaries not designated as scenic streams or as primary contact recreation waterbodies	Lawson-Bone't Construction Inc	Min. & Quarrying of Nonmet. Min., Exc. Fuels	01/31/15	Tangipahoa River
040701	160174	LAG490083	004	Treated sanitary wastewater	Lawson-Bone't Construction Inc	Min. & Quarrying of Nonmet. Min., Exc. Fuels	01/31/15	Tangipahoa River
040701	160174	LAG490083	005	Stormwater runoff from auxiliary process areas	Lawson-Bone't Construction Inc	Min. & Quarrying of Nonmet. Min., Exc. Fuels	01/31/15	Tangipahoa River
040701	160392	LAR10F334		Stormwater - GP	Vineyard Development LLC - Cornerstone Business Park	Nonclassifiable Establishments	09/30/14	Tangipahoa River to Lake Pontchartrain

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040701	160488	LAG490084	001	Process wastewater and process area stormwater discharges to designated scenic streams and their tributaries	Circle E Materials LLC - Loranger Pit	Min. & Quarrying of Nonmet. Min., Exc. Fuels	01/31/15	Ready Branch
040701	160488	LAG490084	002	Process wastewater and process area stormwater discharges to primary contact recreation water bodies	Circle E Materials LLC - Loranger Pit	Min. & Quarrying of Nonmet. Min., Exc. Fuels	01/31/15	Ready Branch
040701	160488	LAG490084	003	Process wastewater and process area stormwater discharges to receiving streams or their tributaries not designated as scenic streams or as primary contact recreation water bodies	Circle E Materials LLC - Loranger Pit	Min. & Quarrying of Nonmet. Min., Exc. Fuels	01/31/15	Ready Branch
040701	160488	LAG490084	004	Treated sanitary wastewater	Circle E Materials LLC - Loranger Pit	Min. & Quarrying of Nonmet. Min., Exc. Fuels	01/31/15	Ready Branch
040701	160488	LAG490084	005	Stormwater runoff from auxiliary process areas	Circle E Materials LLC - Loranger Pit	Min. & Quarrying of Nonmet. Min., Exc. Fuels	01/31/15	Ready Branch
040701	161594	LAG470280	001	Washrack wastewater	Michael A Vilardo - Independence Mobile Homes LLC	Nonclassifiable Establishments	08/31/14	Ditch to Tangipahoa River
040701	161594	LAG470280	002	Maintenance and repair shop floor wastewater	Michael A Vilardo - Independence Mobile Homes LLC	Nonclassifiable Establishments	08/31/14	Ditch to Tangipahoa River
040701	161594	LAG470280	003	Paint booth washdown and wet sanding wastewater	Michael A Vilardo - Independence Mobile Homes LLC	Nonclassifiable Establishments	08/31/14	Ditch to Tangipahoa River
040701	161594	LAG470280	004	Potentially contaminated stormwater	Michael A Vilardo - Independence Mobile Homes LLC	Nonclassifiable Establishments	08/31/14	Ditch to Tangipahoa River
040701	161594	LAG470280	005	Treated sanitary wastewater	Michael A Vilardo - Independence Mobile Homes LLC	Nonclassifiable Establishments	08/31/14	Ditch to Tangipahoa River
040701	161594	LAG470280	006	Commingled washrack and sanitary wastewater	Michael A Vilardo - Independence Mobile Homes LLC	Nonclassifiable Establishments	08/31/14	Ditch to Tangipahoa River
040701	168339	LAR10G073		Stormwater - GP	The Vineyards Subdv - Randall Meyer - Vineyard Development LLC	Nonclassifiable Establishments		Skulls Creek to Tangipahoa River
040701	168365	LAR10G149		Stormwater - GP	WalMart Distribution Center - # 6057-08 Robert LA - Clark Construction Inc of MS	Nonclassifiable Establishments		Pole Bridge Branch
040701	169330	LAG560282	001	Treated sanitary wastewater	Tangipahoa Parish Sewerage District #1 - Fluker Community STF	Parish Agency	05/31/14	Unnamed creek to Tangipahoa River to Lake Pontchartrain
040701	169506	LAG541791	001	Treated sanitary wastewater	Deerfields Subdivision - Double Stuff LLC	Real Estate	06/30/13	Brushy Branch to Tangipahoa River



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040701	170400	LAG533524	001	Treated sanitary wastewater	Learning Ladder Daycare & ELC - Misty Bergeron Learning Ladder LLP - WWTP	Social Services	11/30/12	Hwy 190 ditch to Tangipahoa River
040701	170981	LAG533449	001	Treated sanitary wastewater	Truxillo Enterprises Inc - Beautiful Smiles	Nonclassifiable Establishments	11/30/12	Tangipahoa River
040701	172573	LAG533555	001	Treated sanitary wastewater	Kids Haven Childcare Corp	Nonclassifiable Establishments	11/30/12	Washley Creek to tangipahoa River
040801	3709	LAG470189	001	Washrack wastewater	By-Pass Auto Clinic	Nonclassifiable Establishments	08/31/14	Local drainage to Mile Branch
040801	3709	LAG470189	002	Maintenance and repair shop floor washwater	By-Pass Auto Clinic	Nonclassifiable Establishments	08/31/14	Local drainage to Mile Branch
040801	3709	LAG470189	003	Paint booth washdown and wet sanding wastewater	By-Pass Auto Clinic	Nonclassifiable Establishments	08/31/14	Local drainage to Mile Branch
040801	3709	LAG470189	004	Potentially contaminated stormwater	By-Pass Auto Clinic	Nonclassifiable Establishments	08/31/14	Local drainage to Mile Branch
040801	3709	LAG470189	005	Treated sanitary wastewater	By-Pass Auto Clinic	Nonclassifiable Establishments	08/31/14	Local drainage to Mile Branch
040801	3709	LAG470189	006	Commingled washrack and sanitary wastewater	By-Pass Auto Clinic	Nonclassifiable Establishments	08/31/14	Local drainage to Mile Branch
040801	8455	LAG531648	001	Treated sanitary wastewater	Premiere After Hours LLC	Nonclassifiable Establishments	11/30/12	From facility to local drainage to Tchefonctue River
040801	11121	LAG531831	001	Treated sanitary wastewater	Action Screen Printers	Automotive and Apparel Trimmings	11/30/12	Pontchitalawa Creek via local drainage to Tchefonctue River
040801	11480	LAG570286	001	Treated washrack wastewater	Oak Villa Trailer Estates		04/30/14	Drainage to ditch to Prudent Creek to Tchefonctue River
040801	12633	LAG470196	001	Treated sanitary wastewater	Lesters Body Shop	Top & Body Repair & Paint Shops	08/31/14	Unnamed ditch to Mile Branch to Tchefonctue River
040801	12633	LAG470196	002	Treated sanitary wastewater	Lesters Body Shop	Top & Body Repair & Paint Shops	08/31/14	Unnamed ditch to Mile Branch to Tchefonctue River
040801	14285	LAG532632	001	Treated sanitary wastewater	Sunshine Equipment Co Inc	Farm and Garden Machinery	11/30/12	Hwy 25 ditch to Mike's Branch via local drainage to Tchefonctue River
040801	14393	LA0110680	001	Treated sanitary wastewater	Rig Solutions - A National Oilwell Varco LP Co - Covington Facility	Ind. and Comm. Machinery and Computer Equipment	10/31/11	Pruden Creek to Tchefonctue River
040801	18460	LA0084336	001	Treated sanitary wastewater	Covington City of - WWTP	Sewerage Systems	10/31/14	From facility to Tchefonctue River
040801	18460	LA0084336	002	Treated sanitary wastewater, stormwater runoff	Covington City of - WWTP	Sewerage Systems	10/31/14	From facility to Tchefonctue River
040801	19208	LA0066567	001	Treated sanitary wastewater	Utilities of LA Inc - Green Brier Oxidation Pond	Sewerage Systems	03/31/11	Pipe to Flower's Bayou to Tchefonctue River to Lake Pontchartrain

DRAFT—TMDLs for Mercury in Selected Subsegments in the Lake Pontchartrain Basin, Louisiana

Sub-segment	AI	Permit #	Outfall	Outfall type	Facility name	Facility type	Exp. date	Receiving waterbody
040801	19921	LAG570469	001	Treated sanitary wastewater	Southeastern LA Water & Sewer Co LLC - Lake Hills Subdivision	Sewerage Systems	04/30/14	Unnamed ditch to Pruden Creek to Tchefonctre River to Lake Pontchartrain
040801	22235	LA0124648	001	Stormwater runoff, equip test, hydrostatic test, water treatment wastewater, equipment rinse water	Acadian Millwork & Supply	Lumber and Wood Products, Except Furniture	12/31/14	Soap and Tallow Branch to Tchefonctre River
040801	22235	LA0124648	002	Treated sanitary wastewater	Acadian Millwork & Supply	Lumber and Wood Products, Except Furniture	12/31/14	Soap and Tallow Branch to Tchefonctre River
040801	24812	LAG533613	001	Treated sanitary wastewater	5 Minute Oil Change	Automotive Repair Shops	11/30/12	Local drainage to Bayou Tete L'Ours
040801	25940	LAG531666	001	Treated sanitary wastewater	Wingfoot Commercial Tire Systems LLC	Automotive Repair Shops	11/30/12	From facility via local drainage to Mile Branch
040801	26742	LAG470213	001	Washrack wastewater	Tire Kingdom #179		08/31/14	Local drainage to Mile Branch
040801	26742	LAG470213	002	Maintenance and repair shop floor washwater	Tire Kingdom #179		08/31/14	Local drainage to Mile Branch
040801	26742	LAG470213	003	Paint booth washdown and wet sanding wastewater	Tire Kingdom #179		08/31/14	Local drainage to Mile Branch
040801	26742	LAG470213	004	Potentially contaminated stormwater	Tire Kingdom #179		08/31/14	Local drainage to Mile Branch
040801	26742	LAG470213	005	Treated sanitary wastewater	Tire Kingdom #179		08/31/14	Local drainage to Mile Branch
040801	26742	LAG470213	006	Commingled washrack and sanitary wastewater	Tire Kingdom #179		08/31/14	Local drainage to Mile Branch
040801	26742	LAG530694		Treated sanitary wastewater	Tire Kingdom #179		no current permit online	Local drainage to Mile Branch
040801	27411	LAG470209	001	Washrack wastewater	St Tammany Parish Sheriff's Office	General Automotive Repair Shops	08/31/14	Pipe to Mile Branch to Tchefonctre River
040801	27411	LAG470209	002	Maintenance and repair shop floor washwater	St Tammany Parish Sheriff's Office	General Automotive Repair Shops	08/31/14	Pipe to Mile Branch to Tchefonctre River
040801	27411	LAG470209	003	Paint booth washdown and wet sanding wastewater	St Tammany Parish Sheriff's Office	General Automotive Repair Shops	08/31/14	Pipe to Mile Branch to Tchefonctre River
040801	27411	LAG470209	004	Potentially contaminated stormwater	St Tammany Parish Sheriff's Office	General Automotive Repair Shops	08/31/14	Pipe to Mile Branch to Tchefonctre River
040801	27411	LAG470209	005	Treated sanitary wastewater	St Tammany Parish Sheriff's Office	General Automotive Repair Shops	08/31/14	Pipe to Mile Branch to Tchefonctre River
040801	27411	LAG470209	006	Commingled washrack and sanitary wastewater	St Tammany Parish Sheriff's Office	General Automotive Repair Shops	08/31/14	Pipe to Mile Branch to Tchefonctre River
040801	27651	LAG531270	001	Treated sanitary wastewater	CFR LLC	Sewerage Systems	11/30/12	Roadside ditch to Miles Branch to Tchefonctre River



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Sub-segment	AI	Permit #	Outfall	Outfall type	Facility name	Facility type	Exp. date	Receiving waterbody
040801	27807	LAG531550	001	Treated sanitary wastewater	Lacox Inc	Nonclassifiable Establishments	11/30/12	Local drainage to Mile Branch to Tchefonctue River
040801	27914	LAG531708	001	Treated sanitary wastewater	Amerigas Inc	Nonclassifiable Establishments	11/30/12	Local drainage to Mile Branch to Tchefonctue River
040801	30105	LAG531636	001	Treated sanitary wastewater	Old South Cabinetry		11/30/12	Local drainage to Mile Branch to Tchefonctue River
040801	30360	LAR05M174			Kenner City of - WWTP #2			N/a
040801	31222	LA0105520	001	Treated sanitary wastewater	Artesian Utility Co Inc - Lake Ramsey Subdivision		draft	Unnamed ditch to Tchefonctue River
040801	36357	LAG531453	001	Treated sanitary wastewater	Tulane University Medical Group - The Bone & Joint Clinic	Health and Allied Services	11/30/12	Highway ditch to Tchefonctue River to Lake Pontchartrain
040801	40437	LAG530023	001	Treated sanitary wastewater	Acadian Ambulance Service Inc	Local Passenger Transportation	11/30/12	A roadside ditch to Mile Branch to Bogue Falaya River
040801	41079	LAG530888	001	Treated sanitary wastewater	Cojil Corp Folsom Child Care Center	Child Day Care Services	11/30/12	Horse Branch to Tchefonctue River
040801	41424	LAG530756	001	Treated sanitary wastewater	Ernie's Spa & Pool Equipment Repair	Sewerage Systems	11/30/12	Local drainage to Tchefonctue River
040801	41771	LAG531404	001	Treated sanitary wastewater	Highway Mini Storage	Sewerage Systems	11/30/12	A hwy ditch to Bogue Falaya River to Tchefonctue River
040801	41827	LAR05M300		MSGP	Jenkins Lumber Co		04/30/11	N/a
040801	41914	LAG530689	001	Treated sanitary wastewater	Inwood Gardens	Gift, Novelty, and Souvenir Shops	11/30/12	Local drainage to Tchefonctue River
040801	42040	LAG530930	001	Treated sanitary wastewater	Kevin Guillory	Sewerage Systems	11/30/12	Drainage ditch to Tchefonctue River
040801	42752	LAG750077	001	Exterior vehicle and equipment wash wastewater	Ozone Car Wash LLC		03/14/14	From facility to Mile Branch to Tchefonctue River
040801	42752	LAG750077	002	Treated sanitary wastewater	Ozone Car Wash LLC		03/14/14	From facility to Mile Branch to Tchefonctue River
040801	42752	LAG750077	003	Treated sanitary wastewater	Ozone Car Wash LLC		03/14/14	From facility to Mile Branch to Tchefonctue River
040801	42752	LAG750077	004	Commingled discharges of treated vehicle wash and sanitary wastewater	Ozone Car Wash LLC		03/14/14	From facility to Mile Branch to Tchefonctue River
040801	42752	LAG750077	005	Wastewaters from portable washing operations	Ozone Car Wash LLC		03/14/14	From facility to Mile Branch to Tchefonctue River
040801	42781	LAG530662	001	Treated sanitary wastewater	Deer Cross 2C LLC	Sewerage Systems	11/30/12	Roadside ditch to Fox Branch
040801	43074	LAG530917	001	Treated sanitary wastewater	Lawrence & June Rabalais - Private Owners	Sewerage Systems	11/30/12	Local drainage to Tchefonctue River
040801	43279	LAG540527	001	Treated sanitary wastewater	Southeastern LA Water & Sewer Co LLC - St Gertrude Heights Subdivision	Sewerage Systems	06/30/13	Local drainage to Bogue Falaya River to Tchefonctue River

DRAFT—TMDLs for Mercury in Selected Subsegments in the Lake Pontchartrain Basin, Louisiana

Sub-segment	AI	Permit #	Outfall	Outfall type	Facility name	Facility type	Exp. date	Receiving waterbody
040801	43295	LA0117447	001	Treated sanitary wastewater	Southeastern LA Water & Sewer Co LLC - Timber Branch STP	Sewerage Systems	10/08/2008 application online no final permit	Timber Branch to Tchefunacte River to Lake Pontchartrain
040801	43390	LAG530911	001	Treated sanitary wastewater	St Tammany Parish Fire District #13 - Station 2	Sewerage Systems	11/30/12	Local drainage to Timber Branch
040801	43392	LAG530526	001	Treated sanitary wastewater	St Tammany Parish Fire Protection District #5	Sewerage Systems	11/30/12	Local drainage ditch to Savannah Branch to Tchefunacte River
040801	43556	LAG530647	001	Treated sanitary wastewater	Tim Mel LLC	Household Appliance Stores	11/30/12	Highway #1085 drainage ditch to Tchefunacte River
040801	43660	LAG530643	001	Treated sanitary wastewater	Turnpike Dev	Sewerage Systems	11/30/12	Local drainage to Tchefunacte River
040801	51671	LA0122645	001	Treated sanitary wastewater	Southeastern LA Water & Sewer Co LLC - Timber Branch II Subdivision	Sewerage Systems	03/31/14	Timber Branch to Tchefunacte River to Lake Pontchartrain
040801	74432	LAG531452	001	Treated sanitary wastewater	Goodbee Quik Stop	Sewerage Systems	11/30/12	Highway ditch to Soap & Tallow Branch to Tchefunacte River
040801	75941	LAG532298	001	Treated sanitary wastewater	Gene's Country Store LLC	Sewerage Systems	11/30/12	Facility effluent pipe to local drainage to Savannah Branch
040801	76536	LAU003846			ARB Inc - KC Grocery		No permit only inspection report online	N/a
040801	81694	LAG531863	001	Treated sanitary wastewater	Holden's Wrecker Service Inc	Automotive Repair Shops	11/30/12	Facility to unnamed drainage ditch to Mile Branch to Tchefunacte River
040801	84824	LAG531586	001	Treated sanitary wastewater	VFW Post 7286	Sewerage Systems	11/30/12	Local drainage to unnamed slough to Mile Branch to Tchefunacte River
040801	87913	LAG531174	001	Treated sanitary wastewater	Holy Trinity Lutheran Church New Life Center		11/30/12	Facility to a roadside ditch to Timber Branch to Tchefunacte River
040801	87913	LAG531174	002	Treated sanitary wastewater	Holy Trinity Lutheran Church New Life Center		11/30/12	Facility to a roadside ditch to Timber Branch to Tchefunacte River
040801	88040	LAG531211	001	Treated sanitary wastewater	Recreation District #14 - Hwy 1085 Recreation Facility	Sewerage Systems	11/30/12	Facility to Soap and Tallow Branch to Tchefunacte River
040801	93695	LAG531730	001	Treated sanitary wastewater	Faith Presbyterian Church	Religious Organizations	11/30/12	Facility to local drainage to Timber Branch.
040801	99297	LAG531392	001	Treated sanitary wastewater	Children's Medical Center	Sewerage Systems	11/30/12	Unnamed drainage ditch to Tchefunacte River
040801	101128	LAG531314	001	Treated sanitary wastewater	R&B Booth Investments LLC - Ramsey Grocery	Sewerage Systems	11/30/12	Facility to local drainage to Bogue Falaya River
040801	102243	LAG531783	001	Treated sanitary wastewater	Steven Owens - Office Building Construction Project	Sewerage Systems	11/30/12	Local drainage to unnamed slough to Mile Branch



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Sub-segment	AI	Permit #	Outfall	Outfall type	Facility name	Facility type	Exp. date	Receiving waterbody
040801	106095	LAG490048	001	Process wastewater and area stormwater	Wilmer Dirt Pit	Clay and Related Minerals	01/31/15	Ditch to Black Branch to Tchefunacte River
040801	106095	LAG490048	002	Process area stormwater discharges from hot mix asphalt/ashpaltic concrete facilities with no discharge from process wastewater	Wilmer Dirt Pit	Clay and Related Minerals	01/31/15	Ditch to Black Branch to Tchefunacte River
040801	106095	LAG490048	003	Stormwater and aggregate spray from unloading areas and stockpiles of washed sand and gravel	Wilmer Dirt Pit	Clay and Related Minerals	01/31/15	Ditch to Black Branch to Tchefunacte River
040801	106095	LAG490048	004	Nonprocess area stormwater from cement, concrete, and asphalt facilities	Wilmer Dirt Pit	Clay and Related Minerals	01/31/15	Ditch to Black Branch to Tchefunacte River
040801	106095	LAG490048	005	Treated sanitary wastewater	Wilmer Dirt Pit	Clay and Related Minerals	01/31/15	Ditch to Black Branch to Tchefunacte River
040801	106095	LAG490048	006	Washrack and shop floor washdown wastewater discharges from cement, concrete and asphalt facilities	Wilmer Dirt Pit	Clay and Related Minerals	01/31/15	Ditch to Black Branch to Tchefunacte River
040801	107082	LAG541125	001	Treated sanitary wastewater	Patrick LLC Seafood World	Sewerage Systems	06/30/13	Local drainage to Mile Branch to Tchefunacte River
040801	108412	LAR041038	001	MS4	Covington City of - Municipal Separate Storm Sewer System	Gas and Other Services Combined	12/04/12	Bogue Falaya River to Tchefunacte River to Lake Pontchartrain
040801	111355	LAR10C283	001	Treated sanitary wastewater	H2O Systems Inc - Penn Mill Lakes STF		10/31/14	Local drainage to Horse Branch to Tchefunacte River
040801	112207	LAG470174	001	Washrack wastewater	Huval Properties LLC	Automotive Repair, Services, and Parking	08/31/14	Mile Branch to Tchefunacte River
040801	112207	LAG470174	002	Maintenance and repair shop floor wastewater	Huval Properties LLC	Automotive Repair, Services, and Parking	08/31/14	Mile Branch to Tchefunacte River
040801	112207	LAG470174	003	Paint booth washdown and wet sanding wastewater	Huval Properties LLC	Automotive Repair, Services, and Parking	08/31/14	Mile Branch to Tchefunacte River
040801	112207	LAG470174	004	Potentially contaminated stormwater	Huval Properties LLC	Automotive Repair, Services, and Parking	08/31/14	Mile Branch to Tchefunacte River
040801	112207	LAG470174	005	Treated sanitary wastewater	Huval Properties LLC	Automotive Repair, Services, and Parking	08/31/14	Mile Branch to Tchefunacte River
040801	112207	LAG470174	006	Commingled washrack and sanitary wastewater	Huval Properties LLC	Automotive Repair, Services, and Parking	08/31/14	Mile Branch to Tchefunacte River
040801	113238	LAG531436	001	Treated sanitary wastewater	Cranky Corner Bar-B-Que	Sewerage Systems	11/30/12	Hwy ditch to Bull Branch to Tchefunacte River to Lake Pontchartrain

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Sub-segment	AI	Permit #	Outfall	Outfall type	Facility name	Facility type	Exp. date	Receiving waterbody
040801	113895	LAG531499	001	Treated sanitary wastewater	Annie's Sewing Center	Nonclassifiable Establishments	11/30/12	Roadside ditch to Highway #190 ditch to Mile Branch to Tchefuncte River
040801	115470	LAG531458	001	Treated sanitary wastewater	By Pass Storage	Sewerage Systems	11/30/12	Highway ditch to unnamed slough to Tchefuncte River to Lake Pontchartrain
040801	115894	LA0117927	001	Treated sanitary wastewater	Southeastern LA Water & Sewer Co LLC - Tallow Creek STP	Sewerage Systems	05/31/11	Unnamed ditch to Soap & Tallow Branch to Tchefuncte River to Lake Pontchartrain
040801	115935	LAR10C592	001	Stormwater	Normandy Oaks Subdivision		09/30/14	N/A
040801	116567	LAG531545	001	Treated sanitary wastewater	Franco's Investments Co - Franco's Golf Course	Sewerage Systems	11/30/12	Highway ditch to Mile Branch to Tchefuncte River
040801	117176	LAR10D932	001	Treated sanitary wastewater	Sun Construction LLC - Penn Mills Lakes Subdivision		09/30/14	Termination
040801	118794	LAG531522	001	Treated sanitary wastewater	Outpatient Pavilion Medical Center	Sewerage Systems	11/30/12	Unnamed ditch to Timber Branch to Tchefuncte River to Lake Pontchartrain
040801	119106	LAG531556	001	Treated sanitary wastewater	Wall Land Holdings LLC	Sewerage Systems	11/30/12	Local drainage to Mile Branch to Tchefuncte River
040801	119109	LAG531549	001	Treated sanitary wastewater	Fountain of Praise	Sewerage Systems	11/30/12	Local drainage to Mile Branch to Tchefuncte River
040801	119279	LAG531637	001	Treated sanitary wastewater	Nichols Moving & Storage Inc	Local Trucking With Storage	11/30/12	Local drainage to Mile Branch
040801	119280	LAG531553	001	Treated sanitary wastewater	Delaune Apartments	Sewerage Systems	11/30/12	Local drainage to Tchefuncte River
040801	119604	LAG531585	001	Treated sanitary wastewater	Ja-Roy Exterminating System of St Tammany Inc	Sewerage Systems	11/30/12	Local drainage to Mile Branch to Tchefuncte River
040801	119698	LAG531709	001	Treated sanitary wastewater	Covington Lions Club Inc	Labor Organizations	11/30/12	Local drainage to Mile Branch to Tchefuncte River
040801	120322	LAG531706	001	Treated sanitary wastewater	Robert H Burns Post #16 of the American Legion	Labor Organizations	11/30/12	Local drainage to Mile Branch
040801	120682	LAG531600	001	Treated sanitary wastewater	KCAD LLC	Sewerage Systems	11/30/12	Local drainage to Mile Branch to Tchefuncte River
040801	120817	LAG531635	001	Treated sanitary wastewater	KDM Sales & Service Inc	Nonclassifiable Establishments	11/30/12	Local drainage to Mile Branch
040801	121029	LAG531939	001	Treated sanitary wastewater	Tchefuncte Family Campground LLC		11/30/12	Unnamed ditch to Tchefuncte River
040801	121313	LAG531850	001	Treated sanitary wastewater	Favret Investments LLC - Flex-Space	Sewerage Systems	11/30/12	Local drainage to Bogue Falaya River
040801	121430	LAG531644	001	Treated sanitary wastewater	Enviro-Tech Systems	Nonclassifiable Establishments	11/30/12	Local ditch to unnamed slough to Bogue Falaya River to Tchefuncte River
040801	121639	LAG531633	001	Treated sanitary wastewater	St John's Church STP	Nonclassifiable Establishments	11/30/12	Local drainage to Tchefuncte River



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040801	121823	LAG531630	001	Treated sanitary wastewater	Cannon Tree Service Inc	Nonclassifiable Establishments	11/30/12	Local drainage to Mile Branch
040801	122238	LAG531638	001	Treated sanitary wastewater	Charlie Maestri Carpet & Furniture	Nonclassifiable Establishments	11/30/12	Local drainage to Mile Branch
040801	122320	LAG531758	001	Treated sanitary wastewater	It Straps On Inc	Fabricated Metal Products	11/30/12	Local drainage to Mile Branch to Tchefuncte River
040801	122514	LAG531665	001	Treated sanitary wastewater	AC Supply Inc	Nonclassifiable Establishments	11/30/12	Local drainage to Mile Branch
040801	122520	LAG531661	001	Treated sanitary wastewater	Royal Kraft	Nonclassifiable Establishments	11/30/12	Local drainage to Mile Branch
040801	122580	LAG531662	001	Treated sanitary wastewater	IMS Trailer Sales	Automotive Dealers	11/30/12	Local drainage to Mile Branch
040801	122588	LAG531657			LA Community & Technical College System - West Jefferson LA Technical College			Termination
040801	122619	LAG531667	001	Treated sanitary wastewater	Environ-Tech Systems	Electrical Work	11/30/12	Facility via local drainage to Mile Branch
040801	123434	LAG541378	001	Treated sanitary wastewater	Stewarts Seafood WWTP - Construction	Eating Places	06/30/13	Unnamed drainage ditch to natural drainage to Tchefuncte River
040801	124996	LAG531715	001	Treated sanitary wastewater	Omni Storage	General Warehousing and Storage	11/30/12	Local drainage to Mile Branch to Tchefuncte River
040801	125188	LAG531721	001	Treated sanitary wastewater	Tallow Creek Shooting Grounds LLC	Nonclassifiable Establishments	11/30/12	Local drainage to Soap and Tallow Branch
040801	125294	LAG531743	001	Treated sanitary wastewater	Covington Golf & Recreation Park	Public Golf Courses	11/30/12	Local drainage to Tchefuncte River
040801	125313	LAU005165	001	Treated sanitary wastewater	Penn Mill Place Subdivision - Mo-Dad Utilities LLC		2008 application	Ditch to Pruden Creek to Tchefuncte River
040801	125913	LAG531757	001	Treated sanitary wastewater	Delta Imaging LLC	Offices & Clinics Of Medical Doctors	11/30/12	Facility to local drainage to Tchefuncte River
040801	126458	LAG531961	001	Treated sanitary wastewater	Poole Lumber Co LLC	Hardware Stores	11/30/12	Parish drainage ditch to Mile Branch to Tchfuncte River
040801	128600	LAG531909	001	Treated sanitary wastewater	Live Oak Baptist Church - STP	Sewerage Systems	11/30/12	Unnamed ditch to Tchefuncte River
040801	128730	LAG531947	001	Treated sanitary wastewater	Covington Youth Soccer Fields - STP	Membership Sports & Recreation Clubs	11/30/12	Unnamed ditch to Horse Branch to Tchefuncte River
040801	128776	LAG532167	001	Treated sanitary wastewater	YMCA of Greater New Orleans - Recreational Development	Physical Fitness Facilities	11/30/12	Pipe to unnamed ditch to Tchefuncte River
040801	128805	LAG541712	001	Treated sanitary wastewater	Acadian Village Highway 21 LLC - Acadian Village Apartments	Electric, Gas, and Sanitary Services	06/30/13	LA Hwy 21 ditch to Tchefuncte River
040801	132649	LAR10F215		Stormwater - GP	Colonial Properties Trust - Colonial Pinnacle Nor Du Lac Shopping Center	Heavy Construction Other Than Bldg. Constr.	09/30/14	Tchefuncte River

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040801	134733	LAG531985	001	Treated sanitary wastewater	Amazing Graces Nursery and Landscaping - WWTP - Grace R Pigrenet	Florists	11/30/12	Local drainage to Tchefonctue River
040801	139008	LAG532076	001	Treated sanitary wastewater	MKM Properties LLC - Office Building	Surveying Services	11/30/12	A parish drainage ditch to Mile Branch to Tchefonctue River
040801	139477	LAG470274	001	Washrack wastewater	Car Craft Inc	Automotive Repair, Services, and Parking	08/31/14	Mile Branch
040801	139477	LAG470274	002	Maintenance and repair shop floor wastewater	Car Craft Inc	Automotive Repair, Services, and Parking	08/31/14	Mile Branch
040801	139477	LAG470274	003	Paint booth washdown and wet sanding wastewater	Car Craft Inc	Automotive Repair, Services, and Parking	08/31/14	Mile Branch
040801	139477	LAG470274	004	Potentially contaminated stormwater	Car Craft Inc	Automotive Repair, Services, and Parking	08/31/14	Mile Branch
040801	139477	LAG470274	005	Treated sanitary wastewater	Car Craft Inc	Automotive Repair, Services, and Parking	08/31/14	Mile Branch
040801	139477	LAG470274	006	Commingled washrack and sanitary wastewater	Car Craft Inc	Automotive Repair, Services, and Parking	08/31/14	Mile Branch
040801	145287	LAG532829	001	Treated sanitary wastewater	Northshore Surgical Center LLC	Offices & Clinics Of Medical Doctors	11/30/12	From doctor's office by pipe to a parish ditch to Tchefonctue River
040801	149122	LAG570419	001	Treated sanitary wastewater	Southeastern LA Water & Sewer Co LLC - Palm Courts WWTP	Sewerage Systems	03/14/14	Unnamed ditch to Black River
040801	152052	LAG532312	001	Treated sanitary wastewater	Montagnet Properties No 2 LLC - Office Building		11/30/12	From facility to a local drainage, to Timber Branch.
040801	152279	LAG532314	001	Treated sanitary wastewater	Grace Harbor Family Church	Religious Organizations	11/30/12	Hwy #1077 ditch to roadside ditch to Tchefonctue River
040801	154332	LAR10E652			Tallow Creek LLC - Tallow Creek Subdivision		unknown	
040801	154470	LAG532492	001	Treated sanitary wastewater	CVS Pharmacy - Linfield Hunter & Junius Inc		11/30/12	Highway #21 ditch to Flowers Bayou to Tchefonctue River
040801	158016	LAR10F232		Stormwater - GP	Colonial Pinnacle Nor Du Lac - Erosion Sedimentation Control - Beard Construction Group LLC	Nonclassifiable Establishments	09/30/14	Tchefonctue River
040801	160027	LAR10F314		Stormwater - GP	Brackley Construction Inc at RTD Beverages	Nonclassifiable Establishments	09/30/14	Tallow Creek
040801	160138	LAR10F311		Stormwater - GP	CAT-4 LLC = Hwy 25 Business Park (Minor Subdv)	Building Construction	09/30/14	Bogue Falaya River
040801	161959	LAG533242	001	Treated sanitary wastewater	Dog-Gone Purrfect LLC - Camp Bow Wow	Nonclassifiable Establishments	11/30/12	Soap and Tallow Branch to Tchefonctue River

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Sub-segment	AI	Permit #	Outfall	Outfall type	Facility name	Facility type	Exp. date	Receiving waterbody
040801	162211	LAR10F476		Stormwater - GP	The Groves at Mile Branch - Renaissance Neighborhood Development Corp	Nonclassifiable Establishments	09/30/14	Mile Branch
040801	163055	LAR05P076		MSGP	S&S Farms Inc - Wood Shaving Production Facility	Lumber and Wood Products, Except Furniture		Tchefuncte River
040801	163341	LAG533115	001	Treated sanitary wastewater	Bogue Falaya Baptist Church - Bogue Falaya Baptist Church Office	Nonclassifiable Establishments	11/30/12	Tchefuncte River
040801	163343	LAG533088	001	Treated sanitary wastewater	Caserta's Land Clearing Service LLC - Casertas Land Clearing Service WWTP	Nonclassifiable Establishments	11/30/12	Hwy 190 ditch to Pruden Creek To Tchefuncta River
040801	163388	LAR10F608		Stormwater - GP	City of New Orleans - Dept of Public Works - SP 742-36-0117	Nonclassifiable Establishments	09/30/14	Lake Pontchartrain
040801	163519	LAR10F621		Stormwater - GP	Olive Garden Restaurant - GMRI Inc	Nonclassifiable Establishments	09/30/14	Tchefuncto River
040801	164305	LAG570494	001	Treated sanitary wastewater	Jimmy Laurent Northshore Work Force LLC - Northshore Work Force	Social Services	04/30/14	Mile Branch to Tchefuncte River
040801	164629	LAR10F712		Stormwater - GP	Terra Bella - Above and Beyond Builders	Nonclassifiable Establishments	09/30/14	Little Tchefuncte Creek and Sopentallo Creek
040801	166147	LAR10F813		Stormwater - GP	Lake Ramsey Subdivision Phase 5 - One Consort International LLC - John Mamoulides	Nonclassifiable Establishments	09/30/14	Tchefuncte River
040801	167107	LAR10G091		Stormwater - GP	Covington Commons - St Tammany Parish	Heavy Construction Other Than Bldg. Constr.		Lateral "B"
040801	168158	LAR10G093		Stormwater - GP	Siegen Lane Improvements - Byron E Talbot Contractor Inc	Nonclassifiable Establishments		Bayou Fountain
040801	168472	LAR10G159		Stormwater - GP	DSLDC LLC - Barkley Parc Phase I & II-A	Nonclassifiable Establishments		Mile Branch to Tchefuncte River
040801	169150	LAR10G281		Stormwater - GP	Coquille Parks & Recreation Phase 1 - Walking Trails - Sieverding Construction Inc	Nonclassifiable Establishments		Soap and Tallow Branch to Tchefuncte River
040801	171321	LAR10G484		Stormwater - GP	Stirling Blvd Extension & Infrastructure Improvements Phase II - Richard Price Contracting Co LLC	Nonclassifiable Establishments		Tchefuncte River
040801	171577	LAR10G561		Stormwater - GP	Covington By Pass South/Project # 300-07-17 - AMTEK of LA Inc	Nonclassifiable Establishments		Timber Branch
040801	171627	LAR10G509		Stormwater - GP	The Groves at Mile Branch Creek - Larry Loyd Construction Co Inc	Nonclassifiable Establishments		Mile Branch to Tchefuncte River
040801	171695	LAR10G525		Stormwater - GP	University Club Plantation - Bradley Gremillion	Nonclassifiable Establishments		Bayou Manchac

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Sub-segment	AI	Permit #	Outfall	Outfall type	Facility name	Facility type	Exp. date	Receiving waterbody
040906	161289	LAG541758	001	Treated sanitary wastewater	Mayfield Elementary School	Educational Services	06/30/13	Paquet Bayou to Bayou Liberty to Bayou Bonfouca to Lake Pontchartrain
040701_ 040702	85750	Various		Construction stormwater	LADOTD - St Tammany Parish - LAR100000 Construction Stormwater Activity	State Agency	Various	Abita Creek or Vincent Bayou

APPENDIX B:

Environmental Mercury Data

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Table B-1. Available fish tissue mercury data in the Lake Pontchartrain Basin

Sub-segment	Name	Site	Collection date	Mercury (ppm)	Average weight (g)	Average length (cm)	# of fish	Species
040303	Amite River at mile 6.5, at Clio, LA	228	1/14/2008	0.43	922.5	38.4	2	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	1/14/2008	0.24	341.3	29	4	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	1/14/2008	0.17	273.8	27.6	4	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	1/14/2008	0.19	232	25.9	5	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	1/14/2008	0.25	213.3	25.4	6	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	1/14/2008	0.06	340	32.7	4	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	1/14/2008	0.64	2,168.3	58.3	3	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	1/14/2008	0.65	2,168.3	58.3	3	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	1/14/2008	0.53	1,735	54.8	3	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	1/14/2008	0.3	1,152.5	48.5	2	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	1/14/2008	0.09	568.8	38.2	4	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	1/14/2008	0.23	166	23.3	5	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	0.76	1,010	40.3	2	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	1.21	1,855	49.7	1	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	0.63	1,010	40.3	2	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	0.51	633	35.1	5	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	0.31	359	29.6	5	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	0.23	220	24.3	2	Black crappie
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	0.52	2,115	49.1	1	Freshwater drum
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	0.54	1,125	44.5	1	Freshwater drum
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	0.74	657.5	37.2	2	Freshwater drum
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	0.2	3,395	66.5	2	Blue catfish
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	0.06	537.5	0.1	2	Blue catfish
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	0.24	1,127.5	48.7	2	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	0.2	672.5	41.1	2	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	0.11	423.3	34.4	3	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	1.21	1,587.6	46.5	1	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	0.29	666.2	41.8	2	Blue catfish
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	0.57	2,608.2	61.7	1	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	0.24	548.1	37.9	3	Channel catfish
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	0.3	808	42	2	Channel catfish
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	0.63	2,608.2	61.7	1	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	0.37	236.3	25.7	6	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	0.23	992.3	45	2	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	0.24	623.7	39.4	3	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	0.47	893	37.7	2	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	0.8	963.9	40.9	1	Freshwater drum
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	0.42	533	32.8	5	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	0.33	1,143.5	47.5	3	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	2/12/2001	0.18	3,402	53.8	1	Blue catfish
040303	Amite River at mile 6.5, at Clio, LA	228	2/12/2001	0.21	652.1	41.1	1	Channel catfish
040303	Amite River at mile 6.5, at Clio, LA	228	2/12/2001	0.24	307.1	28.4	6	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	2/12/2001	0.63	963.9	40.1	2	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	2/12/2001	0.73	1,162.4	41.8	1	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	2/12/2001	0.33	567	33.9	1	Freshwater drum
040303	Amite River at mile 6.5, at Clio, LA	228	2/12/2001	0.54	836.3	36.8	2	Freshwater drum
040303	Amite River at mile 6.5, at Clio, LA	228	2/12/2001	3.15	1,842.8	62.4	1	Bowfin

DRAFT—TMDLs for Mercury in Selected Subsegments in the Lake Pontchartrain Basin, Louisiana

Sub-segment	Name	Site	Collection date	Mercury (ppm)	Average weight (g)	Average length (cm)	# of fish	Species
040303	Amite River at mile 6.5, at Clio, LA	228	2/12/2001	1.42	1,634.9	56.9	3	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	2/12/2001	0.61	1,455.3	53.8	3	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	2/12/2001	0.25	230.9	26	7	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	2/12/2001	0.31	1,119.8	48.4	2	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	1/18/2000	0.94	2,990.9	66.4	2	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	1/18/2000	0.29	1,346.6	51.2	2	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	1/18/2000	0.29	1,899.5	51.2	1	Blue catfish
040303	Amite River at mile 6.5, at Clio, LA	228	1/18/2000	0.43	1,899.5	55	2	Bowfin
040303	Amite River at mile 6.5, at Clio, LA	228	1/18/2000	0.58	661.5	36	3	Freshwater drum
040303	Amite River at mile 6.5, at Clio, LA	228	1/18/2000	1.09	992.3	39.7	1	Freshwater drum
040303	Amite River at mile 6.5, at Clio, LA	228	1/18/2000	0.28	430.9	30.6	5	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	1/18/2000	0.41	664.2	36	7	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	1/18/2000	0.82	1,105.7	42.6	2	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	1/18/2000	0.75	1,417.5	46.5	1	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	1/18/2000	0.32	531.6	33.1	4	Largemouth bass
040303	Amite River at mile 6.5, at Clio, LA	228	1/18/2000	0.38	510.3	33.5	3	Freshwater drum
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	0.31	356.3	29.2	4	Largemouth bass
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	0.34	945	38.3	2	Largemouth bass
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	0.3	650	36.2	2	Largemouth bass
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	0.39	650	36.2	2	Largemouth bass
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	0.17	240	26.5	2	White crappie
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	0.21	360	27.7	4	Black crappie
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	0.13	275	25.9	3	Black crappie
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	0.57	975	41.2	1	Freshwater drum
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	0.37	645	37.3	2	Freshwater drum
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	0.35	1,065	48	2	Bowfin
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	0.33	1,635	55.6	2	Bowfin
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	0.4	1,422.5	51.6	2	Bowfin
040401	Blind River East of Sorrento, LA	235	7/28/2008	0.75	2,348.3	59	3	Bowfin
040401	Blind River East of Sorrento, LA	235	7/28/2008	0.3	415	30	5	Largemouth bass
040401	Blind River East of Sorrento, LA	235	7/28/2008	0.82	2,348.3	59	3	Bowfin
040401	Blind River East of Sorrento, LA	235	7/28/2008	0.25	167	21.9	5	Black crappie
040401	Blind River East of Sorrento, LA	235	7/28/2008	0.25	242.5	24.5	4	Black crappie
040401	Blind River East of Sorrento, LA	235	7/28/2008	0.31	355.8	29.2	6	Largemouth bass
040401	Blind River East of Sorrento, LA	235	7/28/2008	1.11	2,740	57	1	Freshwater drum
040401	Blind River East of Sorrento, LA	235	7/28/2008	0.43	1,305	43	2	Freshwater drum
040401	Blind River East of Sorrento, LA	235	7/28/2008	0.21	1,263.8	49.3	4	Bowfin
040401	Blind River East of Sorrento, LA	235	7/28/2008	0.09	860	44.2	3	Blue catfish
040401	Blind River East of Sorrento, LA	235	7/28/2008	0.28	278	26.9	5	Largemouth bass



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Sub-segment	Name	Site	Collection date	Mercury (ppm)	Average weight (g)	Average length (cm)	# of fish	Species
040401	Blind River East of Sorrento, LA	235	7/28/2008	0.35	218.3	25.3	6	Largemouth bass
040401	Blind River East of Sorrento, LA	235	7/28/2008	0.57	1,107.5	41.6	2	Largemouth bass
040401	Blind River East of Sorrento, LA	235	7/28/2008	0.46	800	37.5	2	Largemouth bass
040401	Blind River East of Sorrento, LA	235	8/1/2005	0.44	368.3	29.9	6	Largemouth bass
040401	Blind River East of Sorrento, LA	235	8/1/2005	0.44	385	28.7	1	Black crappie
040401	Blind River East of Sorrento, LA	235	8/1/2005	0.53	900	45.2	2	Bowfin
040401	Blind River East of Sorrento, LA	235	8/1/2005	0.3	265	25.5	3	Black crappie
040401	Blind River East of Sorrento, LA	235	8/1/2005	1.4	3,665	67	1	Bowfin
040401	Blind River East of Sorrento, LA	235	8/1/2005	0.69	625.7	34.7	7	Largemouth bass
040401	Blind River East of Sorrento, LA	235	8/1/2005	0.72	1,930	56	1	Bowfin
040401	Blind River East of Sorrento, LA	235	8/1/2005	0.67	1,335	52.9	1	Bowfin
040401	Blind River East of Sorrento, LA	235	8/1/2005	1.34	1,460	44.8	2	Largemouth bass
040401	Blind River East of Sorrento, LA	235	8/1/2005	1.24	1,955	48.8	1	Largemouth bass
040401	Blind River East of Sorrento, LA	235	8/1/2005	0.88	1,045	40.4	2	Largemouth bass
040401	Blind River East of Sorrento, LA	235	8/1/2005	1.62	3,665	67	1	Bowfin
040401	Blind River East of Sorrento, LA	235	1/21/2004	0.35	426	30	5	Largemouth bass
040401	Blind River East of Sorrento, LA	235	1/21/2004	0.37	657	34.2	5	Largemouth bass
040401	Blind River East of Sorrento, LA	235	1/21/2004	0.6	1,060	39.8	2	Largemouth bass
040401	Blind River East of Sorrento, LA	235	1/21/2004	0.8	1,615	43.9	1	Largemouth bass
040401	Blind River East of Sorrento, LA	235	1/21/2004	0.47	1,225	50.1	3	Bowfin
040401	Blind River East of Sorrento, LA	235	1/21/2004	0.59	532.5	34.6	2	Freshwater drum
040401	Blind River East of Sorrento, LA	235	1/21/2004	2.27	4,295	74	1	Bowfin
040401	Blind River East of Sorrento, LA	235	1/21/2004	1.39	3,085	65.5	4	Bowfin
040401	Blind River East of Sorrento, LA	235	1/21/2004	1.3	1,905	60	2	Bowfin
040401	Blind River East of Sorrento, LA	235	1/21/2004	0.74	1,578.3	55.1	3	Bowfin
040401	Blind River East of Sorrento, LA	235	1/21/2004	1.97	4,295	74	1	Bowfin
040401	Black Lake near Denson, LA	3064	4/4/2005	0.25	607.5	39.2	4	Bowfin
040401	Black Lake near Denson, LA	3064	4/4/2005	0.43	840	43.7	6	Bowfin
040401	Black Lake near Denson, LA	3064	4/4/2005	0.44	1,311.3	50.5	4	Bowfin
040401	Black Lake near Denson, LA	3064	4/4/2005	0.44	1,580	53.9	5	Bowfin
040401	Black Lake near Denson, LA	3064	4/4/2005	0.48	1,827.5	57.8	2	Bowfin
040401	Black Lake near Denson, LA	3064	4/4/2005	0.48	1,827.5	57.8	2	Bowfin
040401	Black Lake near Denson, LA	3064	4/4/2005	0.6	760	39.4	1	Freshwater drum
040401	Black Lake near Denson, LA	3064	4/4/2005	0.35	185	19.8	4	Warmouth
040401	Black Lake near Denson, LA	3064	4/4/2005	0.22	187.5	20.1	4	Redear sunfish
040401	Black Lake near Denson, LA	3064	4/4/2005	0.72	235	25.8	6	Largemouth bass
040401	Black Lake near Denson, LA	3064	4/4/2005	0.59	374.2	30	6	Largemouth bass
040401	Black Lake near Denson, LA	3064	4/4/2005	0.76	650	35.4	5	Largemouth bass
040401	Black Lake near Denson, LA	3064	4/4/2005	1.02	1,222.5	42.5	4	Largemouth bass
040401	Black Lake near Denson, LA	3064	4/4/2005	0.93	1,115	41.3	2	Largemouth bass
040403	Blind River near Gramercy, LA	117	12/6/2004	0.52	415	29.8	1	Black crappie
040403	Blind River near Gramercy, LA	117	12/6/2004	0.63	600	32.6	1	Black crappie
040403	Blind River near Gramercy, LA	117	12/6/2004	0.24	1,460	50.9	2	Bowfin
040403	Blind River near Gramercy, LA	117	12/6/2004	1.06	2,826.7	65	3	Bowfin
040403	Blind River near Gramercy, LA	117	12/6/2004	0.87	2,258.3	60.8	3	Bowfin
040403	Blind River near Gramercy, LA	117	12/6/2004	0.32	1,650	54.9	2	Bowfin
040403	Blind River near Gramercy, LA	117	12/6/2004	0.27	226.3	24.9	4	Largemouth bass
040403	Blind River near Gramercy, LA	117	12/6/2004	0.39	226.3	24.9	4	Largemouth bass
040403	Blind River near Gramercy, LA	117	12/6/2004	0.33	2,915	63.8	1	Blue catfish

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Sub-segment	Name	Site	Collection date	Mercury (ppm)	Average weight (g)	Average length (cm)	# of fish	Species
040403	Blind River near Gramercy, LA	117	12/6/2004	0.59	1,115	40.4	1	Freshwater drum
040403	Blind River near Gramercy, LA	117	12/6/2004	0.47	1,160	44.5	1	Freshwater drum
040403	Blind River near Gramercy, LA	117	1/9/2003	0.26	1,833.3	55.3	3	Bowfin
040403	Blind River near Gramercy, LA	117	1/9/2003	0.61	2,253.8	60.1	4	Bowfin
040403	Blind River near Gramercy, LA	117	1/9/2003	0.92	5,273.1	73.7	1	Bowfin
040403	Blind River near Gramercy, LA	117	1/9/2003	0.34	3,146.9	63.5	2	Blue catfish
040403	Blind River near Gramercy, LA	117	1/9/2003	0.11	1,578.2	51.7	3	Bowfin
040403	Blind River near Gramercy, LA	117	1/9/2003	0.44	1,275.8	42.4	1	Freshwater drum
040403	Blind River near Gramercy, LA	117	1/9/2003	0.48	1,275.8	42.4	1	Freshwater drum
040403	Blind River near Gramercy, LA	117	1/9/2003	0.33	265.8	25.4	8	Black crappie
040403	Blind River near Gramercy, LA	117	1/9/2003	0.39	340.2	29.9	5	Black crappie
040403	Blind River near Gramercy, LA	117	1/9/2003	0.37	368.6	28.9	2	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/9/2003	0.32	567	32.1	2	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/9/2003	0.44	850.5	36.2	1	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/9/2003	0.36	793.8	37.4	2	Freshwater drum
040403	Blind River near Gramercy, LA	117	1/10/2002	0.9	1,587.6	43.9	1	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/10/2002	0.53	888.3	37.6	3	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/10/2002	0.37	510.3	32.5	4	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/10/2002	0.42	439.4	30.7	6	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/10/2002	0.32	333.1	28.8	4	White crappie
040403	Blind River near Gramercy, LA	117	1/10/2002	0.25	251.1	25.3	7	Black crappie
040403	Blind River near Gramercy, LA	117	1/10/2002	0.32	184.3	23	8	Black crappie
040403	Blind River near Gramercy, LA	117	1/10/2002	0.38	595.4	34	1	Freshwater drum
040403	Blind River near Gramercy, LA	117	1/10/2002	0.13	406.4	35.4	3	Channel catfish
040403	Blind River near Gramercy, LA	117	1/10/2002	0.29	2,296.4	55.8	1	Blue catfish
040403	Blind River near Gramercy, LA	117	1/10/2002	0.86	2,825.6	64.7	3	Bowfin
040403	Blind River near Gramercy, LA	117	1/10/2002	0.78	2,225.5	61.1	4	Bowfin
040403	Blind River near Gramercy, LA	117	1/10/2002	0.51	1,779	56.6	4	Bowfin
040403	Blind River near Gramercy, LA	117	1/11/2001	0.92	1,445.9	55.1	3	Bowfin
040403	Blind River near Gramercy, LA	117	1/11/2001	0.72	1,757.7	57.2	3	Bowfin
040403	Blind River near Gramercy, LA	117	1/11/2001	1.06	2,835	66.6	3	Bowfin
040403	Blind River near Gramercy, LA	117	1/11/2001	0.01	1,077.3	47.5	1	Channel catfish
040403	Blind River near Gramercy, LA	117	1/11/2001	1.04	1,559.3	45.6	1	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/11/2001	0.44	652.1	34.3	3	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/11/2001	0.45	897.8	38	3	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/11/2001	0.63	992.3	40	2	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/11/2001	0.33	418.2	30.7	4	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/31/2000	0.23	4,847.9	60.3	1	Bigmouth buffalo
040403	Blind River near Gramercy, LA	117	1/31/2000	0.62	3,005.1	66.8	2	Bowfin
040403	Blind River near Gramercy, LA	117	1/31/2000	0.56	1,672.7	55.3	3	Bowfin
040403	Blind River near Gramercy, LA	117	1/31/2000	0.15	708.8	41.2	1	Blue catfish
040403	Blind River near Gramercy, LA	117	1/31/2000	0.21	2,381.4	50.2	1	Bigmouth buffalo
040403	Blind River near Gramercy, LA	117	1/31/2000	0.17	2,901.2	52.5	3	Bigmouth buffalo
040403	Blind River near Gramercy, LA	117	1/31/2000	0.67	2,409.8	62	3	Bowfin
040403	Blind River near Gramercy, LA	117	1/31/2000	0.24	354.4	29.4	2	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/31/2000	0.33	793.8	35.9	3	Largemouth bass
040403	Blind River near Gramercy, LA	117	1/31/2000	0.37	515	31.6	6	Largemouth bass



DRAFT—TMDLs for Mercury in Selected Subsegments in the Lake Pontchartrain Basin, Louisiana

Sub-segment	Name	Site	Collection date	Mercury (ppm)	Average weight (g)	Average length (cm)	# of fish	Species
040403	Blind River northwest of Gramercy, LA	156	9/17/2007	0.27	455	32.2	2	Largemouth bass
040403	Blind River northwest of Gramercy, LA	156	9/17/2007	0.13	1,010	49.5	1	Blue catfish
040403	Blind River northwest of Gramercy, LA	156	9/17/2007	0.24	158.8	22.6	4	Largemouth bass
040403	Blind River northwest of Gramercy, LA	156	9/17/2007	0.4	1,970	48.3	1	Freshwater drum
040403	Blind River northwest of Gramercy, LA	156	9/17/2007	0.22	4,682.5	60.4	2	Bigmouth buffalo
040403	Blind River northwest of Gramercy, LA	156	9/17/2007	0.23	238	25.8	5	Largemouth bass
040403	Blind River northwest of Gramercy, LA	156	9/17/2007	0.19	195	23.7	3	Largemouth bass
040403	Blind River northwest of Gramercy, LA	156	9/17/2007	0.08	1,500	44.5	1	Bigmouth buffalo
040403	Blind River northwest of Gramercy, LA	156	9/17/2007	0.16	2,390	48	1	Bigmouth buffalo
040403	Blind River northwest of Gramercy, LA	156	9/17/2007	0.26	455	32.2	2	Largemouth bass
040403	Blind River near Gramercy, LA	538	2/2/1999	0.33	1,814	53	1	Blue catfish
040403	Blind River near Gramercy, LA	538	2/2/1999	0.81	3,926	70	2	Bowfin
040403	Blind River near Gramercy, LA	538	2/2/1999	0.55	3,232	66	1	Blue catfish
040403	Blind River near Gramercy, LA	538	2/2/1999	0.55	581	34.3	2	Largemouth bass
040403	Blind River near Gramercy, LA	538	2/2/1999	0.23	581	47	2	Bowfin
040403	Blind River near Gramercy, LA	538	2/2/1999	0.85	1,106	41.4	3	Largemouth bass
040403	Blind River near Gramercy, LA	538	2/2/1999	0.54	1,453	66	4	Bowfin
040403	Blind River near Gramercy, LA	538	2/2/1999	0.61	3,090	55	1	Freshwater drum
040403	Blind River near Gramercy, LA	538	2/2/1999	0.51	605	35.1	3	Freshwater drum
040403	Blind River near Gramercy, LA	538	2/2/1999	0.47	439.4	32.4	2	Freshwater drum
040403	Blind River near Gramercy, LA	538	2/2/1999	0.9	2,155	60	3	Bowfin
040403	Blind River near Gramercy, LA	538	11/17/1997	0.39	659.1	34	4	Largemouth bass
040403	Blind River near Gramercy, LA	538	11/17/1997	0.06	1,105.7	45.5	1	Channel catfish
040403	Blind River near Gramercy, LA	538	11/17/1997	1.02	3,402	68.4	2	Bowfin
040403	Blind River near Gramercy, LA	538	11/17/1997	0.55	2,362.5	60.9	3	Bowfin
040403	Blind River near Gramercy, LA	538	11/17/1997	0.21	311.9	26.8	5	Black crappie
040403	Blind River near Gramercy, LA	538	11/17/1997	0.37	510.3	34	1	Freshwater drum
040403	Blind River near Gramercy, LA	538	11/17/1997	0.14	1,871.1	56	1	Blue catfish
040403	Blind River near Gramercy, LA	538	11/17/1997	0.44	737.1	54.9	6	Bowfin
040403	Blind River near Gramercy, LA	538	2/26/1997	0.35	694.6	40.1	2	Blue catfish
040403	Blind River near Gramercy, LA	538	2/26/1997	0.41	1,134	46.6	3	Blue catfish
040403	Blind River near Gramercy, LA	538	2/26/1997	0.23	3,345.3	60	1	Blue catfish
040403	Blind River near Gramercy, LA	538	2/26/1997	0.45	361.5	29.3	4	Largemouth bass
040403	Blind River near Gramercy, LA	538	2/26/1997	0.58	357.2	31.1	5	Freshwater drum
040403	Blind River near Gramercy, LA	538	2/26/1997	0.62	727.6	36.5	3	Freshwater drum
040403	Blind River near Gramercy, LA	538	2/26/1997	0.32	113.4	17.7	5	Warmouth
040403	Blind River near Gramercy, LA	538	2/26/1997	0.36	127.6	21.5	2	Black crappie
040403	Blind River near Gramercy, LA	538	2/26/1997	0.32	544.3	33.2	5	Largemouth bass
040403	Blind River near Gramercy, LA	538	2/26/1997	0.65	718.2	36.2	3	Largemouth bass
040403	Blind River near Gramercy, LA	538	2/26/1997	0.34	893	39.3	2	Largemouth bass
040403	Blind River near Gramercy, LA	538	2/26/1997	0.81	1,448.4	55	2	Bowfin
040403	Blind River near Gramercy, LA	538	2/26/1997	0.36	255.2	26.3	2	White crappie
040403	Blind River near Gramercy, LA	538	7/24/1996	Not detected	102.1	17.4	5	Bluegill
040403	Blind River near Gramercy, LA	538	7/24/1996	Not detected	251.1	25.6	7	Black crappie
040403	Blind River near Gramercy, LA	538	7/24/1996	0.68	727.6	36	3	Largemouth bass
040403	Blind River near Gramercy, LA	538	7/24/1996	1.69	2,452.3	64.6	4	Bowfin
040403	Blind River near Gramercy, LA	538	7/24/1996	0.3	417.1	30.9	7	Largemouth bass

DRAFT—TMDLs for Mercury in Selected Subsegments in the Lake Pontchartrain Basin, Louisiana

Sub-segment	Name	Site	Collection date	Mercury (ppm)	Average weight (g)	Average length (cm)	# of fish	Species
040403	Blind River near Gramercy, LA	538	7/24/1996	Not detected	737.1	42.4	2	Blue catfish
040403	Blind River near Gramercy, LA	538	7/24/1996	0.13	113.4	18.6	5	Redear sunfish
040403	Blind River near Gramercy, LA	538	7/24/1996	1.05	1,757.7	60.7	3	Bowfin
040403	Blind River near Gramercy, LA	538	7/24/1996	Not detected	274	32	3	Channel catfish
040403	Blind River near Gramercy, LA	538	7/24/1996	0.42	1,786.1	55.3	1	Blue catfish
040403	Blind River near Gramercy, LA	538	7/24/1996	Not detected	1,034.8	47.9	2	Blue catfish
040403	Blind River near Gramercy, LA	538	7/24/1996	0.28	765.5	37.6	4	Largemouth bass
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	0.59	896.7	37.1	3	Largemouth bass
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	1.4	2,920	66.3	2	Bowfin
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	0.84	2,432.5	62.6	2	Bowfin
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	0.64	2,087.5	59.3	2	Bowfin
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	0.43	1,691.7	54.3	3	Bowfin
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	0.4	1,380	49.8	2	Bowfin
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	0.4	473.3	30.1	3	Largemouth bass
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	0.86	3,145	64.6	1	Blue catfish
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	0.35	5,210	72.8	1	Blue catfish
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	0.54	5,210	72.8	1	Blue catfish
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	0.91	1,790	44	1	Largemouth bass
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	0.96	3,145	64.6	1	Blue catfish
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	0.6	662.5	34.1	4	Largemouth bass
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	0.36	430	37.7	2	Channel catfish
040701	Tangipahoa River west of Robert, LA	33	7/26/2004	0.46	1,305	39.5	2	Freshwater drum
040701	Tangipahoa River west of Robert, LA	33	7/26/2004	0.6	1,575	45.6	2	Freshwater drum
040701	Tangipahoa River west of Robert, LA	33	7/26/2004	0.58	1,575	45.6	2	Freshwater drum
040701	Tangipahoa River west of Robert, LA	33	7/26/2004	0.34	112.5	17.6	2	Rock bass
040701	Tangipahoa River west of Robert, LA	33	7/26/2004	0.3	610	32.7	1	Freshwater drum
040701	Tangipahoa River west of Robert, LA	33	7/26/2004	0.24	635	43.1	1	Channel catfish
040701	Tangipahoa River west of Robert, LA	33	7/26/2004	0.21	3,840	58	1	Smallmouth buffalo
040701	Tangipahoa River west of Robert, LA	33	7/26/2004	0.28	7,620	73	1	Smallmouth buffalo
040701	Tangipahoa River west of Robert, LA	33	7/26/2004	0.24	3,140	56	1	Smallmouth buffalo
040701	Tangipahoa River west of Robert, LA	33	7/26/2004	0.13	285	33	1	Channel catfish
040701	Tangipahoa River west of Robert, LA	33	12/16/2002	0.18	126	20.7	9	Black crappie
040701	Tangipahoa River west of Robert, LA	33	12/16/2002	0.22	175.8	22.4	5	Black crappie
040701	Tangipahoa River west of Robert, LA	33	12/16/2002	0.26	236.3	26.7	3	Spotted bass
040701	Tangipahoa River west of Robert, LA	33	12/16/2002	0.39	453.6	32.1	2	Spotted bass
040701	Tangipahoa River west of Robert, LA	33	12/16/2002	0.3	850.5	38.1	1	Spotted bass
040701	Tangipahoa River west of Robert, LA	33	12/16/2002	0.54	1,247.4	41.2	1	Largemouth bass
040701	Tangipahoa River west of Robert, LA	33	12/16/2002	0.56	1,247.4	41.2	1	Largemouth bass
040701	Tangipahoa River west of Robert, LA	33	12/16/2002	0.62	1,134	45.1	1	Flathead catfish
040701	Tangipahoa River west of Robert, LA	33	12/16/2002	0.03	581.2	39.2	2	Channel catfish
040701	Tangipahoa River west of Robert, LA	33	12/16/2002	0.04	1,134	45.7	2	Channel catfish
040701	Tangipahoa River west of Robert, LA	33	12/16/2002	0.24	1,332.5	40.1	1	Freshwater drum
040701	Tangipahoa River west of Robert, LA	33	4/21/1999	0.77	623.7	35.6	1	Spotted bass
040701	Tangipahoa River west of Robert, LA	33	4/21/1999	0.71	963.9	41	1	Spotted bass
040701	Tangipahoa River west of Robert, LA	33	4/21/1999	0.58	680.4	35.5	1	Largemouth bass
040701	Tangipahoa River west of Robert, LA	33	4/21/1999	0.07	538.7	40.1	2	Channel catfish



DRAFT—TMDLs for Mercury in Selected Subsegments in the Lake Pontchartrain Basin, Louisiana

Sub-segment	Name	Site	Collection date	Mercury (ppm)	Average weight (g)	Average length (cm)	# of fish	Species
040701	Tangipahoa River west of Robert, LA	33	4/21/1999	0.62	5,301.5	75.5	1	Flathead catfish
040701	Tangipahoa River west of Robert, LA	33	4/21/1999	1.22	1,927.8	49.2	1	Largemouth bass
040701	Tangipahoa River west of Robert, LA	33	4/21/1999	0.61	340.2	30.7	2	Spotted bass
040701	Tangipahoa River west of Robert, LA	33	4/21/1999	0.01	311.9	33.1	5	Channel catfish
040701	Tangipahoa River west of Robert, LA	33	4/21/1999	0.11	482	32	4	Freshwater drum
040701	Tangipahoa River west of Robert, LA	33	4/21/1999	0.4	935.6	38.3	1	Freshwater drum
040701	Tangipahoa River west of Robert, LA	33	4/21/1999	0.84	1,814.4	46.2	1	Freshwater drum
040701	Tangipahoa River west of Robert, LA	33	4/21/1999	0.03	878.9	44.9	2	Channel catfish
040701	Tangipahoa River west of Robert, LA	33	4/21/1999	0.01	389.8	36.7	4	Channel catfish
040801	Tchefuncte River near Covington, LA	409	7/6/2009	1.46	1,385	44.4	1	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/6/2009	1.45	1,385	44.4	1	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/6/2009	1.08	930	40.4	2	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/6/2009	0.54	328.3	29.3	3	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/6/2009	0.54	266.7	28.3	3	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/6/2009	0.45	215	25.6	3	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/6/2009	1.04	2,195	50.5	1	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	7/6/2009	0.49	1,222.5	41	2	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	7/6/2009	0.68	745	37	2	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	7/6/2009	0.17	3,105	61.2	1	Blue catfish
040801	Tchefuncte River near Covington, LA	409	7/6/2009	0.17	2,387.5	58.6	2	Blue catfish
040801	Tchefuncte River near Covington, LA	409	7/6/2009	0.13	1,423.3	51.7	3	Blue catfish
040801	Tchefuncte River near Covington, LA	409	7/6/2009	0.13	1,065	47.3	3	Blue catfish
040801	Tchefuncte River near Covington, LA	409	7/6/2009	0.76	8,165	88	1	Flathead catfish
040801	Tchefuncte River near Covington, LA	409	7/26/2004	1.07	675	38	2	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	7/26/2004	0.86	1,507.5	45.4	2	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/26/2004	0.75	628	35.4	5	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/26/2004	1.17	970	42.9	2	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	7/26/2004	0.78	1,507.5	45.4	2	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/26/2004	0.22	485	32.5	1	White bass
040801	Tchefuncte River near Covington, LA	409	7/26/2004	0.31	8,160	76	1	Bigmouth buffalo
040801	Tchefuncte River near Covington, LA	409	7/26/2004	0.28	560	39.5	2	Channel catfish
040801	Tchefuncte River near Covington, LA	409	7/26/2004	0.15	4,305	74.5	1	Blue catfish
040801	Tchefuncte River near Covington, LA	409	7/26/2004	0.06	735	42.7	1	Blue catfish
040801	Tchefuncte River near Covington, LA	409	7/26/2004	0.6	367	30.5	5	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/26/2004	0.92	984	41	3	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.14	482	38	5	Blue catfish
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.93	921.4	39.1	4	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.14	2,494.8	60.5	2	Blue catfish
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.71	482	38	5	Blue catfish
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.21	1,743.5	55.6	2	Blue catfish
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.36	2,494.8	60.5	2	Blue catfish
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.69	373.3	30.3	6	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.85	686.1	35.2	5	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.72	949.7	39.5	2	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/31/2002	1.2	1,389.2	44.1	2	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.66	642.1	35.1	4	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.71	538.7	32.1	1	Spotted bass
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.85	921.4	39.1	4	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.73	1,578.2	45.4	3	Freshwater drum

DRAFT—TMDLs for Mercury in Selected Subsegments in the Lake Pontchartrain Basin, Louisiana

Sub-segment	Name	Site	Collection date	Mercury (ppm)	Average weight (g)	Average length (cm)	# of fish	Species
040801	Tchefuncte River near Covington, LA	409	7/31/2002	0.24	1,743.5	2,494.8	2	Blue catfish
040801	Tchefuncte River near Covington, LA	409	5/21/2002	0.82	921.4	41	2	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	5/21/2002	0.66	255.2	27.7	4	White crappie
040801	Tchefuncte River near Covington, LA	409	5/21/2002	0.84	328.1	30.5	7	White crappie
040801	Tchefuncte River near Covington, LA	409	5/21/2002	1.35	694.6	39.6	2	White crappie
040801	Tchefuncte River near Covington, LA	409	5/21/2002	1.12	496.1	33	2	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	5/21/2002	1.45	954.5	39.7	3	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	5/21/2002	1.67	1,672.7	47.6	1	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	5/21/2002	0.99	277.8	27.4	5	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	5/21/2002	0.45	1,209.6	47.4	3	Blue catfish
040801	Tchefuncte River near Covington, LA	409	5/21/2002	0.43	1,715.2	52.8	2	Blue catfish
040801	Tchefuncte River near Covington, LA	409	5/21/2002	0.95	567	34.3	4	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	5/21/2002	0.95	1,304.1	44.5	2	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	4/20/1999	0.16	459.3	36.9	5	Channel catfish
040801	Tchefuncte River near Covington, LA	409	4/20/1999	0.01	659.1	40.1	4	Channel catfish
040801	Tchefuncte River near Covington, LA	409	4/20/1999	0.02	1,899.5	56.8	2	Blue catfish
040801	Tchefuncte River near Covington, LA	409	4/20/1999	0.05	1,063.1	44.8	2	Channel catfish
040801	Tchefuncte River near Covington, LA	409	4/20/1999	0.97	1,275.8	44.5	1	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	4/20/1999	0.45	472.4	33.1	6	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	4/20/1999	0.53	727.6	37.7	3	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	4/20/1999	0.37	606.7	34.6	5	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	4/20/1999	0.44	623.7	35.7	3	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	4/20/1999	0.79	1,370.2	43.5	3	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	4/20/1999	0.75	1,086.7	41.1	3	Freshwater drum
040801	Tchefuncte River near Covington, LA	409	4/20/1999	0.8	1,049	42	3	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	8/30/1994	0.08	33.1		6	Redear sunfish
040801	Tchefuncte River near Covington, LA	409	8/30/1994	0.17	120.5		4	White crappie
040801	Tchefuncte River near Covington, LA	409	8/30/1994	0.47	2,126.3		3	Black drum
040801	Tchefuncte River near Covington, LA	409	8/30/1994	0.13	47.2		6	Redear sunfish
040801	Tchefuncte River near Covington, LA	409	8/30/1994	Not detected	149.8		7	Channel catfish
040801	Tchefuncte River near Covington, LA	409	8/30/1994	0.05	1,077.3		1	Channel catfish
040801	Tchefuncte River near Covington, LA	409	8/30/1994	0.37	432.3		4	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	8/30/1994	0.31	108.7		6	Largemouth bass
040801	Tchefuncte River near Covington, LA	409	8/30/1994	0.5	1,445.9		3	Largemouth bass
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.13	1,505	43	1	Sheepshead
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.25	1,315	43.5	1	Largemouth bass
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.15	952.5	37.1	2	Largemouth bass
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.09	686.7	35	3	Largemouth bass
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.07	602.5	33	2	Largemouth bass
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.08	410	29.9	3	Largemouth bass
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.1	465	29.9	2	Black crappie
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.07	174	18.7	5	Bluegill
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.1	1,640	44.5	1	Freshwater drum
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.08	645	35.3	2	Freshwater drum
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.03	1,212.5	50	4	Blue catfish
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.02	996.7	46.2	3	Blue catfish
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.02	708.3	41.5	3	Blue catfish
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.48	2,300	58.5	1	Bowfin



DRAFT—TMDLs for Mercury in Selected Subsegments in the Lake Pontchartrain Basin, Louisiana

Sub-segment	Name	Site	Collection date	Mercury (ppm)	Average weight (g)	Average length (cm)	# of fish	Species
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.47	2,300	58.5	1	Bowfin
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	0.26	1,710	52.8	1	Bowfin
040905	Bayou Liberty near Slidell, LA	503	4/19/1999	0.24	340.2	29.2	1	White crappie
040905	Bayou Liberty near Slidell, LA	503	4/19/1999	0.38	318.9	29.3	4	Largemouth bass
040905	Bayou Liberty near Slidell, LA	503	4/19/1999	0.46	294.8	27.4	5	Largemouth bass
040905	Bayou Liberty near Slidell, LA	503	4/19/1999	0.54	793.8	37.5	1	Largemouth bass
040905	Bayou Liberty near Slidell, LA	503	4/19/1999	0.92	1,417.5	45	1	Largemouth bass
040905	Bayou Liberty near Slidell, LA	503	4/19/1999	0.87	1,020.6	42.5	1	Largemouth bass
040905	Bayou Liberty near Slidell, LA	503	4/19/1999	0.51	387.4	30.7	3	Largemouth bass
040905	Bayou Liberty near Slidell, LA	503	4/19/1999		850.5	40.5	1	Channel catfish
040905	Bayou Liberty near Slidell, LA	503	4/19/1999	0.23	141.8	19.7	7	Redear sunfish
040905	Bayou Liberty near Slidell, LA	503	4/19/1999	0.06	138.6	18	9	Bluegill
040905	Bayou Liberty near Slidell, LA	503	6/5/1996	0.92	1,871.1	48.4	1	Freshwater drum
040905	Bayou Liberty near Slidell, LA	503	6/5/1996	0.78	102.1	17.5	5	Bluegill
040905	Bayou Liberty near Slidell, LA	503	6/5/1996	1.05	396.9	31.6	4	Largemouth bass
040905	Bayou Liberty near Slidell, LA	503	6/5/1996	0.97	269.3	27.8	2	White crappie
040905	Bayou Liberty near Slidell, LA	503	6/5/1996	1.01	482	30.8	2	Black crappie
040905	Bayou Liberty near Slidell, LA	503	6/5/1996	0.92	133.6	20.1	7	Redear sunfish
040905	Bayou Liberty near Slidell, LA	503	6/5/1996	0.81	264.6	27.9	6	Largemouth bass
040905	Bayou Liberty near Slidell, LA	503	6/5/1996	1.31	623.7	36.6	5	Largemouth bass
040905	Bayou Liberty near Slidell, LA	503	6/5/1996	0.25	255.2	31.7	2	Channel catfish
040905	Bayou Liberty near Slidell, LA	503	6/5/1996	1.52	1,034.8	43.6	2	Largemouth bass
040905	Bayou Liberty near Slidell, LA	503	8/24/1995	0.06	722.9	44.9	2	Blue catfish
040905	Bayou Liberty near Slidell, LA	503	8/24/1995	0.05	103.9	17.7	6	Bluegill
040905	Bayou Liberty near Slidell, LA	503	8/24/1995	0.28	125.5	19.4	7	Redear sunfish
040905	Bayou Liberty near Slidell, LA	503	8/24/1995	0.02	323.2	34.1	5	Channel catfish
040905	Bayou Liberty near Slidell, LA	503	8/24/1995	0.72	595.4	36.2	3	Largemouth bass
040905	Bayou Liberty near Slidell, LA	503	8/24/1995	0.4	2,664.9	20.9	1	Freshwater drum
040905	Bayou Liberty near Slidell, LA	503	8/24/1995	0.58	354.4	28.8	2	Largemouth bass
040905	Bayou Liberty near Slidell, LA	503	8/24/1995	0.33	113.4	19.1	7	Redear sunfish
040905	Bayou Liberty near Slidell, LA	503	8/24/1995	0.56	184.3	25.6	4	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	9/13/2004	0.38	1,910	56.6	1	Bowfin
040905	Bayou Liberty at Hwy. 433 Bridge	1077	9/13/2004	0.42	1,910	56.6	1	Bowfin
040905	Bayou Liberty at Hwy. 433 Bridge	1077	9/13/2004	0.45	2,195	56.2	1	Bowfin
040905	Bayou Liberty at Hwy. 433 Bridge	1077	9/13/2004	0.64	637.5	35.2	2	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	9/13/2004	0.7	1,450	44	2	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	9/13/2004	0.32	435	30.4	3	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	9/13/2004	0.11	2,980	52.9	1	Sheepshead
040905	Bayou Liberty at Hwy. 433 Bridge	1077	9/13/2004	0.6	1,940	48.2	1	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	9/13/2004	0.38	1,035	40	1	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/29/2002	0.45	387.5	30.1	6	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/29/2002	0.35	645	34.7	4	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/29/2002	0.33	759.8	36.8	5	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/29/2002	0.68	1,502.6	44.1	1	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/29/2002	0.45	1,502.6	44.1	1	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/29/2002	0.42	340.2	28.8	2	White bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/29/2002	1.32	2,296.4	63.5	1	Bowfin
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/29/2002	0.14	1,899.5	57.1	1	Blue catfish
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/29/2002	0.25	850.5	42.7	1	Channel catfish

DRAFT—TMDLs for Mercury in Selected Subsegments in the Lake Pontchartrain Basin, Louisiana

Sub-segment	Name	Site	Collection date	Mercury (ppm)	Average weight (g)	Average length (cm)	# of fish	Species
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/29/2002	0.26	1,417.5	41.9	1	Freshwater drum
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/29/2002	0.29	1,757.7	48.4	1	Freshwater drum
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/24/2001	0.13	154.4	20.5	9	Redear sunfish
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/24/2001	0.2	241	26.8	2	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/24/2001	0.81	10,347.8	91.5	1	Flathead catfish
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/24/2001	0.39	2,154.6	57.8	1	Bowfin
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/24/2001	0.19	1,389.2	51.5	1	Bowfin
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/24/2001	0.19	623.7	34.2	1	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/24/2001	0.15	425.3	30.8	3	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/24/2001	0.16	302.4	28.5	6	Largemouth bass
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/24/2001	0.02	1,417.5	49.5	1	Channel catfish



Table B-2. Available inorganic and organic mercury sediment data in the Lake Pontchartrain Basin

Subsegment	Name	Site	Collection date	Parameter	Result (ppm)
040303	Amite River at mile 6.5, at Clio, LA	228	1/18/2000	mercury	0.16
040303	Amite River at mile 6.5, at Clio, LA	228	2/12/2001	mercury	0.08
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	mercury	0.12487
040303	Amite River at mile 6.5, at Clio, LA	228	11/20/2002	methyl mercury	0.00107
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	mercury	0.08204
040303	Amite River at mile 6.5, at Clio, LA	228	7/14/2004	methyl mercury	0.00033
040303	Amite River at mile 6.5, at Clio, LA	228	1/14/2008	mercury	0.04
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	mercury	0.08276
040303	Amite River at mile 1.0, south of Springfield, LA	230	7/14/2004	methyl mercury	0.0003
040401	Blind River East of Sorrento, LA	235	1/21/2004	mercury	0.04177
040401	Blind River East of Sorrento, LA	235	1/21/2004	methyl mercury	0.00018
040401	Blind River East of Sorrento, LA	235	8/1/2005	mercury	0.06962
040401	Blind River East of Sorrento, LA	235	8/1/2005	methyl mercury	0.00022
040401	Blind River East of Sorrento, LA	235	7/28/2008	mercury	0.07
040401	Black Lake near Denson, LA	3064	4/4/2005	mercury	0.1136
040401	Black Lake near Denson, LA	3064	4/4/2005	methyl mercury	0.00081
040403	Blind River near Gramercy, LA	117	1/31/2000	mercury	0.28
040403	Blind River near Gramercy, LA	117	1/11/2001	mercury	0.12
040403	Blind River near Gramercy, LA	117	1/10/2002	mercury	0.18377
040403	Blind River near Gramercy, LA	117	1/10/2002	methyl mercury	0.00219
040403	Blind River northwest of Gramercy, LA	156	1/9/2003	mercury	0.06327
040403	Blind River northwest of Gramercy, LA	156	1/9/2003	methyl mercury	0.00075
040403	Blind River northwest of Gramercy, LA	156	12/6/2004	mercury	0.06349
040403	Blind River northwest of Gramercy, LA	156	12/6/2004	methyl mercury	0.00067
040403	Blind River northwest of Gramercy, LA	156	9/17/2007	mercury	0.42444
040403	Blind River northwest of Gramercy, LA	156	9/17/2007	methyl mercury	0.00137
040403	Blind River near Gramercy, LA	538	2/26/1997	mercury	0.52
040403	Blind River near Gramercy, LA	538	2/2/1999	mercury	0.46
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	mercury	0.1163
040403	Petite Amie River east of Sorrento, LA	2846	1/29/2004	methyl mercury	0.00059
040701	Tangipahoa River west of Robert, LA	33	12/16/2002	mercury	0.00441
040701	Tangipahoa River west of Robert, LA	33	7/26/2004	mercury	0.00339
040701	Tangipahoa River west of Robert, LA	33	7/26/2004	methyl mercury	0.00003
040701	Skulls Creek west of Robert, LA	2139	3/24/2003	mercury	0.05593
040701	Skulls Creek west of Robert, LA	2139	3/24/2003	methyl mercury	0.00161
040801	Tchefuncte River near Covington, LA	409	4/20/1999	mercury	0.06
040801	Tchefuncte River near Covington, LA	409	5/21/2002	mercury	0.09842
040801	Tchefuncte River near Covington, LA	409	5/21/2002	methyl mercury	0.00177
040801	Tchefuncte River near Covington, LA	409	7/31/2002	mercury	0.08191
040801	Tchefuncte River near Covington, LA	409	7/31/2002	methyl mercury	0.00079
040801	Tchefuncte River near Covington, LA	409	7/26/2004	mercury	0.04435
040801	Tchefuncte River near Covington, LA	409	7/26/2004	methyl mercury	0.00045
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	mercury	0.24485
040905	Bayou Liberty west of Slidell, LA	422	7/23/2007	methyl mercury	0.00038
040905	Bayou Liberty near Slidell, LA	503	8/24/1995	mercury	0.03
040905	Bayou Liberty near Slidell, LA	503	6/5/1996	mercury	0.82

Subsegment	Name	Site	Collection date	Parameter	Result (ppm)
040905	Bayou Liberty near Slidell, LA	503	4/19/1999	mercury	0.04
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/24/2001	mercury	0.09
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/29/2002	mercury	0.04722
040905	Bayou Liberty at Hwy. 433 Bridge	1077	7/29/2002	methyl mercury	0.00019
040905	Bayou Liberty at Hwy. 433 Bridge	1077	9/13/2004	mercury	0.15128
040905	Bayou Liberty at Hwy. 433 Bridge	1077	9/13/2004	methyl mercury	0.0001

Table B-3. Summary of LDEQ monitoring data for mercury in the Lake Pontchartrain Basin

Sub-segment	Station	Station name	Period of record	No. of obs.	Mercury minimum (µg/L)	Mercury maximum (µg/L)	Mercury average (µg/L)
040303	228	Amite River - Amite River at mile 6.5, at Clio, LA	9/18/01–3/7/06	5	0.01	0.2	0.064
040401	1102	Blind River near confluence with Lake Maurepas		No data			
040403	117	Blind River near Gramercy, LA	4/13/81–4/14/98	103	0.05	1.3	0.192
	538	Blind River near Gramercy, LA	7/24/96–2/2/99	4	0.05	0.05	0.05
	2846	Petite Amie River east of Sorrento, LA		No data			
	156	Blind River northwest of Gramercy, LA		No data			
040501	116	Tickfaw River at Springville, LA	4/13/81–3/1/05	116	0.01	1.6	0.19
040701	108	Tangipahoa River at Arcola, LA	4/13/81–5/11/98	100	0.05	1	0.182
	33	Tangipahoa River west of Robert, LA	4/21/99–7/26/04	2	0.05	0.2	0.125
040801	107	Tchefuncte River west of Covington, LA	4/13/81–5/11/98	100	0.05	0.9	0.196
	409	Tchefuncte River near Covington, LA	8/30/94–7/26/04	5	0.05	0.2	0.08
040905	503	Bayou Liberty near Slidell, LA	8/24/95–4/19/99	3	0.05	0.05	0.05
	1077	Bayou Liberty at Hwy. 433 Bridge	7/24/01–9/13/04	1	0.05	0.05	0.05
	422	Bayou Liberty west of Slidell, LA	7/23/07	2	0.01	0.01	0.01
040906	1076	Bayou Liberty at Bayou Paquet	9/19/01–12/19/01	No data			

Table B-4. Available atmospheric deposition mercury data

Station	Period of record	No. of records	Min Hg conc. (ng/L)	Min Hg load (ng/m ²)	Max Hg conc. (ng/L)	Max Hg load (ng/m ²)	Avg Hg conc. (ng/L)	Avg Hg load (ng/m ²)
LA10	10/8/98–1/6/09	393	1.92	4.45	337.92	2,176.8	14.8	379.8
LA23	2/1/01–1/7/09	282	1.16	7.8	75.41	2,223.6	13.7	353.7
LA28	10/13/98–1/6/09	391	0.62	2.71	99.56	2,747.53	14.9	355.6

APPENDIX C: TMDL Calculations (CD-ROM)

This appendix contains files that are included only on a CD-ROM. To obtain a copy of this appendix, contact EPA.

