FINAL

TMDLs for Dissolved Oxygen and Nutrients in Selected Subsegments in the Lower Terrebonne Basin, Louisiana

(120401, 120404, 120405, 120406)

Volume I

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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] Part 130) require states to develop Total Maximum Daily Loads (TMDLs) for impaired waterbodies. A TMDL establishes the 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, and it may include a future growth (FG) component. The TMDL components are illustrated using the following equation:

$$TMDL = \Sigma\, WLAs + \Sigma\, LAs + MOS + FG$$

The study area for this TMDL includes four lower Terrebonne Basin subsegments. The lower Terrebonne Basin is in Terrebonne Parish. Land use in the lower Terrebonne Basin is dominated by wetlands. Heavy rainfall events typically occur in March and April as frontal weather systems pass through.

The Louisiana Department of Environmental Quality (LDEQ) has included four lower Terrebonne Basin subsegments on the state's 2004 section 303(d) list of impaired waterbodies. The subsegments are listed for dissolved oxygen and nutrient impairments. The impaired designated uses for the subsegments (Table ES-1) are primary and secondary contact recreation (PCR and SCR), fish and wildlife propagation (FWP), outstanding natural resource (ONR), and shellfish propagation (SFP). The subsegments are either fully supporting (F) or not supporting (N).

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

Subsegment	Subsegment name	Subsegment description	Designated use				
			PCR	SCR	FWP	ONR	SFP
120401	Bayou Penchant	Bayou Chene to Lake Penchant	F	F	N	N	
120404	Lake Penchant	Lake Penchant	F	F	N		
120405	Lake Hatch and Lake Theriot	Lake Hatch and Lake Theriot	F	F	N		
120406	Lake de Cade	Lake de Cade	F	F	F		F

A water quality model (LA-QUAL) was set up to simulate dissolved oxygen, 25-day carbonaceous biochemical oxygen demand (CBOD), ammonia nitrogen, and nitrate+nitrite. The model was calibrated using data from fieldwork conducted in July 2006. The projection simulation was run at critical flows and temperatures to address seasonality, as the Clean Water

Act requires. Reductions of existing nonpoint source loads were required for the projection simulation to show maintenance of the dissolved oxygen standard, 5 milligrams per liter (mg/L). There were no reductions to point sources. In general, the modeling in this study was consistent with guidance in the Louisiana TMDL technical procedures manual (LDEQ 2005). TMDLs for oxygen-demanding substances (CBOD, ammonia, and sediment oxygen demand [SOD]) were calculated using the projection simulation.

In TMDL development, allowable loads 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 human-induced nonpoint sources. An explicit MOS of 10 percent and an FG component of 10 percent were also included.

The dissolved oxygen TMDL establishes load limitations for oxygen-demanding substances and goals for reducing those pollutants. When oxygen-demanding substances are controlled and limited to ensure that the dissolved oxygen criterion is supported, nutrients are also controlled and limited. Implementing the dissolved oxygen TMDL through future wastewater discharge permits, if required, and implementing best management practices to control and reduce runoff of soil and oxygen-demanding pollutants from nonpoint sources in the watershed will also control and reduce the nutrient loading from those sources.

Table ES-2 presents a summary of the dissolved oxygen TMDLs for the subsegments addressed in this report. The numeric water quality criterion that applies to the impaired subsegments and used to calculate the total allowable dissolved oxygen pollutant loads is 5 mg/L.

Table ES-3 presents a summary of the reduction percentages for LAs. Reduction percentages from baseline conditions for total oxygen demand ranged from less than 1 to 21 percent. There were no reductions for WLAs.

Table ES-2. Summary of dissolved oxygen TMDLs, WLAs, LAs, MOSs, and FGs for the lower Terrebonne Basin

Subsegment	Oxygen demand (lb/d)				
120401	SOD	CBOD	Ammonia	Organic N	Total
WLA	0.00	0.00	0.00	0.00	0.00
MOS for WLA	0.00	0.00	0.00	0.00	0.00
FG for WLA	0.00	0.00	0.00	0.00	0.00
LA	35,121.04	95,353.91	1,889.29	42,639.13	175,003.37
MOS for LA	4,390.13	11,919.24	236.16	5,329.89	21,875.42
FG for LA	4,390.13	11,919.24	236.16	5,329.89	21,875.42
TMDL	43,901.30	119,192.39	2,361.61	53,298.91	218,754.22

Table ES-2. (continued)

Subsegment	Oxygen demand (lb/d)				
120404	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0.00	0.00	0.00	0.00	0.00
MOS for WLA	0.00	0.00	0.00	0.00	0.00
FG for WLA	0.00	0.00	0.00	0.00	0.00
LA	12,674.81	8,045.13	373.67	8,398.65	29,492.25
MOS for LA	1,584.35	1,005.64	46.71	1,049.83	3,686.53
FG for LA	1,584.35	1,005.64	46.71	1,049.83	3,686.53
TMDL	15,843.51	10,056.41	467.08	10,498.31	36,865.32
Subsegment	**Oxygen demand (lb/d)**				
120405	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0.00	0.00	0.00	0.00	0.00
MOS for WLA	0.00	0.00	0.00	0.00	0.00
FG for WLA	0.00	0.00	0.00	0.00	0.00
LA	50,867.98	5,509.87	671.26	3,031.74	60,080.84
MOS for LA	6,358.50	688.73	83.91	378.97	7,510.11
FG for LA	6,358.50	688.73	83.91	378.97	7,510.11
TMDL	63,584.98	6,887.33	839.07	3,789.67	75,101.06
Subsegment	**Oxygen demand (lb/d)**				
120406	**SOD**	**CBOD**	**Ammonia**	**Organic N**	**Total**
WLA	0.00	0.67	0.96	0.48	2.12
MOS for WLA	0.00	0.08	0.12	0.06	0.26
FG for WLA	0.00	0.08	0.12	0.06	0.26
LA	46,618.22	38,758.46	4,754.46	14,269.76	104,400.90
MOS for LA	5,827.28	4,844.81	594.31	1,783.72	13,050.11
FG for LA	5,827.28	4,844.81	594.31	1,783.72	13,050.11
TMDL	58,272.78	48,448.91	5,944.28	17,837.80	130,503.77

Table ES-3. Summary of reduction percentages for LAs in the lower Terrebonne Basin

Subsegment	Oxygen demanding				
	SOD	**CBOD**	**Ammonia**	**Organic N**	**Total**
120401	0.00	0.00	0.00	0.00	0.00
120404	0.22	0.00	0.00	0.00	0.09
120405	0.00	60.21	39.69	70.75	21.15
120406	0.00	0.00	0.00	0.00	0.00

Table ES-4 presents a summary of the nutrient TMDLs for the subsegments addressed in this report. The state's nutrient criteria are narrative and include the following language (LDEQ 2007):

> The naturally occurring range of nitrogen-phosphorous ratios shall be maintained. This range shall not apply to designated intermittent streams. To establish the appropriate range of ratios and compensate for natural seasonal fluctuations, the administrative authority will use site-specific studies to establish limits for nutrients. Nutrient

concentrations that produce aquatic growth to the extent that it creates a public nuisance or interferes with designated water uses shall not be added to any surface waters.

Table ES-4. Summary of nutrient TMDLs, WLAs, LAs, MOSs, and FGs for the lower Terrebonne Basin

Subsegment	∑ WLA (lb/d)	∑ LA (lb/d)	MOS	FG (10%) (lb/d)	Total allowable loading(lb/d)	Percent reduction
Total phosphorus						
120405	0.000	0.096	Implicit	0.011	0.106	0.000
120406	0.000	0.158	Implicit	0.018	0.176	0.000
Total nitrogen						
120405	0.000	0.868	Implicit	0.10	0.96	0.000
120406	0.000	1.403	Implicit	0.16	1.56	0.000

Hurricane Katrina made landfall on Monday, August 29, 2005, as a Category 4 hurricane. The storm brought heavy winds and rain to southeast Louisiana, breaching several levees and flooding up to 80 percent of New Orleans and large areas of coastal Louisiana. Both Hurricanes Katrina and Rita have caused a significant amount of change in sedimentation and water quality in southern Louisiana. Many wastewater treatment facilities were temporarily or permanently damaged. Some wastewater treatment facilities will be rebuilt; others will be relocated.

The proposed TMDLs in this report were developed on the basis of pre- and post-hurricane water quality conditions. Some point sources in this TMDL have been updated with post-hurricane information, where available. Post-hurricane water quality conditions and other factors could delay the implementation of these proposed TMDLs, render some proposed TMDLs obsolete, or require modifications of the TMDLs. Although hurricane effects might be valid for some TMDLs, any deviation from the TMDLs should be justified using site-specific data or information.

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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] Part 130) require states to develop Total Maximum Daily Loads (TMDLs) for waterbodies that are not supporting their designated uses, even if pollutant sources have implemented technology-based controls. A TMDL establishes 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).

Monitoring data collected by the Louisiana Department of Environmental Quality (LDEQ) indicate that observed dissolved oxygen levels sometimes do not meet the state's water quality criteria for four subsegments in the lower Terrebonne Basin. The impaired designated uses for the subsegments are primary and secondary contact recreation, fish and wildlife propagation, outstanding natural resource water, and shellfish propagation. The subsegments are either fully supporting (F) or not supporting (N) the designated uses. Table 1-1 presents information from Louisiana's 2004 section 303(d) list for the four subsegments. For example, prolonged hot weather decreases oxygen concentrations and can cause fish kills even in clean waters because warm water cannot hold as much oxygen as cold water (Scorecard 2005).

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

Subsegment	Subsegment name	Subsegment description	Designated use				
			PCR	SCR	FWP	ONR	SFP
120401	Bayou Penchant	Bayou Chene to Lake Penchant	F	F	N	N	
120404	Lake Penchant	Lake Penchant	F	F	N		
120405	Lake Hatch and Lake Theriot	Lake Hatch and Lake Theriot	F	F	N		
120406	Lake de Cade	Lake de Cade	F	F	F		F

Oxygen concentrations in the water column fluctuate under natural conditions, but severe depletion usually results from human activities that introduce large quantities of biodegradable organic materials into surface waters. In polluted waters, bacterial degradation of organic materials can result in a net decline in oxygen concentrations in the water. Oxygen depletion can also result from chemical reactions that place a chemical oxygen demand on receiving waters. Other factors, such as temperature and salinity, influence the amount of oxygen dissolved in water. Prolonged hot weather decreases oxygen concentrations and can cause fish kills even in clean waters because warm water cannot hold as much oxygen as cold water (Scorecard 2005).

Other factors that affect dissolved oxygen concentrations include the following (Murphy 2005):

- Volume and velocity of water flowing in the waterbody
- Climate and season
- The type and number of organisms in the waterbody

- Altitude
- Dissolved or suspended solids
- Amount of nutrients in the water
- Organic waste
- Riparian vegetation
- Ground water inflow

Low dissolved oxygen concentrations in streams can be linked to both natural conditions and human activities. In Louisiana natural stream conditions like low flow, high temperature, and high organic content often result in dissolved oxygen levels already below current water quality criteria, making it difficult to develop standards for best management practices, or BMPs (Mason et al. 2007). Additional data for these 303(d)-listed areas are needed to determine whether the low dissolved oxygen occurs naturally or is related to human activity (i.e., is anthropogenic).

2 BACKGROUND INFORMATION

2.1 General Description

The study region consisted of four subsegments in the lower portion of the Terrebonne Basin. They include Bayou Penchant (subsegment 120401), Lake Penchant (subsegment 120404), Lake Hatch and Lake Theriot (subsegment 120405), and Lake de Cade (subsegment 120406). In Louisiana, the lower Terrebonne Basin includes portions of Terrebonne Parish. Table 2-1 lists the parish and approximate drainage area of each subsegment and Figure 2-1 shows the locations of the subsegments. The watershed's U.S. Geological Survey (USGS) hydrologic unit code is 08090302.

Table 2-1. Drainage area and parish of each subsegment

Subsegment name	Subsegment	Parish	Area (mi^2)	Area (km^2)
Bayou Penchant	120401	Terrebonne	181	470
Lake Penchant	120404	Terrebonne	29	76
Lake Hatch and Lake Theriot	120405	Terrebonne	32	83
Lake de Cade	120406	Terrebonne	53	137

2.2 Land Use

Land use data were obtained from the 2001 USGS National Land Cover Dataset (NLCD; Table 2-2 and Figure 2-2). The predominant land use in the impaired subsegments is wetland. The percentage of wetlands in the watersheds ranges from 69 percent to 82.1 percent followed by open water. There is very little, if none, barren, developed, scrub/shrub, or forest in any subsegments. Subsegments 120405 and 120406 have larger areas of pasture/hay. Subsegment 120401 is almost entirely wetland and open water.

Table 2-2. Land uses percentages for each listed subsegment in the lower Terrebonne Basin

Land use	Percent of total area			
	Bayou Penchant (120401)	Lake Penchant (120404)	Lake Hatch and Lake Theriot (120405)	Lake de Cade (1201406)
Water	9.89	7.95	7.17	28.61
Developed	0.00	0.00	0.16	0.18
Barren	0.35	0.00	0.00	0.02
Forest	0.00	0.00	0.00	0.01
Grassland/shrub	0.00	0.00	0.00	0.00
Pasture/hay	0.00	0.00	3.22	2.16
Cultivated crops	0.00	0.00	0.01	0.10
Wetlands	89.76	92.05	89.44	68.93
TOTAL	100.00	100.00	100.00	100.00

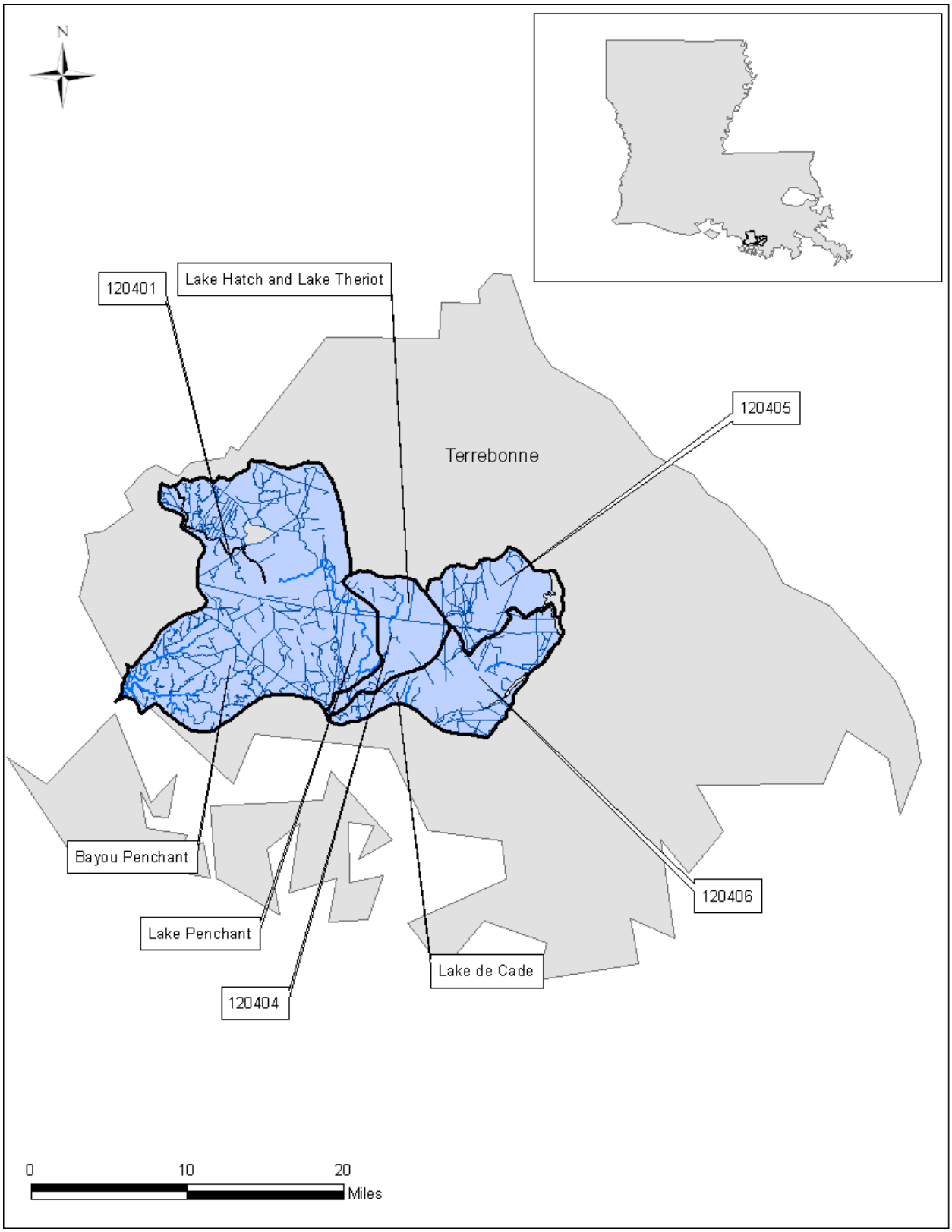

Figure 2-1. Locations of lower Terrebonne Basin subsegments.

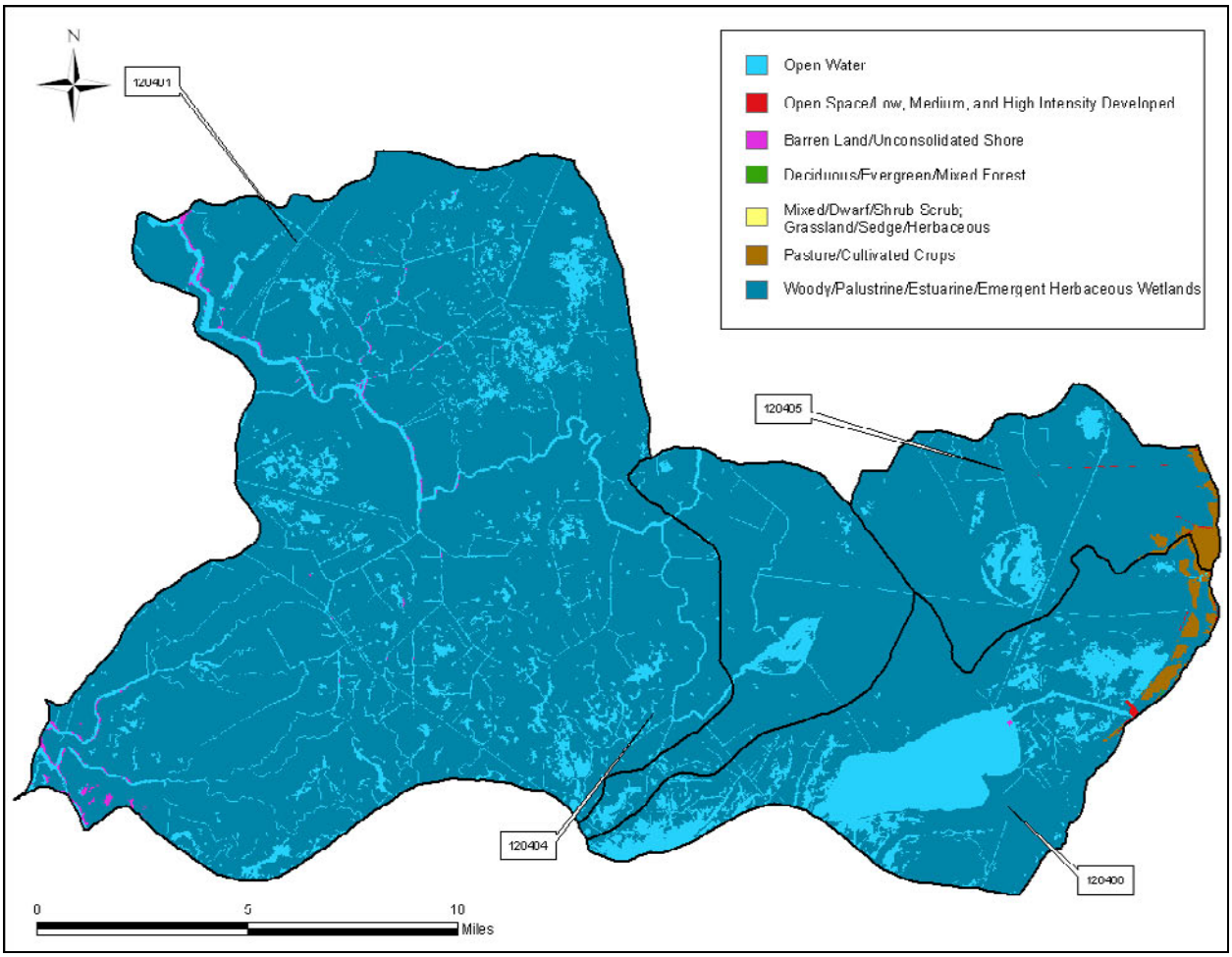

Figure 2-2. Land use in the lower Terrebonne Basin subsegments.

2.3 Hydrologic Setting

Because reversing flows occur at times throughout the Terrebonne Basin, there are very few USGS flow gages in the Terrebonne Basin. The USGS online hydrology database (NWISWeb) contains three stations with flow data for the listed subsegments that are impaired for dissolved oxygen and nutrients. Two stations—Carrion Crow Bayou (USGS station 0738165033; subsegment 120401) and Bayou Penchant near Theriot (USGS station 0738165055; subsegment 120401)—had only one peak discharge value, so these were not used. The remaining station is on Bayou Penchant south of Morgan City (USGS 073816503; subsegment 120401). Not using negative flows, the average flow on this station is 2,833 cubic feet per second (cfs) with a minimum of 25 cfs and a maximum of 10,900 cfs.

2.4 Designated Uses and Water Quality Criteria

Louisiana's 2004 section 303(d) list indicates that the four listed subsegments—all assigned a use of primary or secondary contact recreation, fish and wildlife propagation, outstanding natural resource, or shellfish propagation—do not meet applicable water quality standards because of unknown sources. Primary contact recreation includes any recreational or other water contact involving full-body exposure to water and a considerable probability of ingesting water.

Examples of the use are swimming and water skiing. Secondary contact recreation involves activities like fishing, wading, or boating, where water contact is accidental or incidental, and there is a minimal chance of ingesting appreciable amounts of water. 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 the department as waters of ecological significance. Characteristics of outstanding natural resource waters include highly diverse or unique in-stream or riparian habitat, high species diversity, balanced trophic structure, unique species, or similar qualities. Shellfish propagation involves the use of water to maintain biological systems that support economically important species of shellfish so that their productivity is preserved and the health of human consumers of these species is protected.

The assessment methodology presented in LDEQ's 305(b) report (LDEQ 2004) specifies that primary contact recreation, secondary contact recreation, and fish and wildlife propagation uses are to be fully supported. The state minimum dissolved oxygen criterion for the subsegments in this TMDL is 5 milligrams per liter (mg/L) year-round.

Louisiana does not have numeric water quality standards for nutrients, but its narrative standard for nutrients states the following:

- The naturally occurring range of nitrogen-phosphorus ratios shall be maintained (except for intermittent streams), and
- Nutrient concentrations that produce aquatic growth to the extent that it creates a public nuisance or interferes with designated water uses shall not be added to any surface waters.

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 Identification of Sources

2.5.1 Point Sources

LDEQ stores permit information using internal databases. LDEQ generated a list of point source discharges in the study area by using the TEMPO and PTS databases. Information on point source discharges to the listed subsegments was obtained from the Electronic Document Management System (EDMS) database at LDEQ. Data were pulled from EDMS and analyzed for the TMDLs. Each facility was evaluated on the basis of its discharges and permit limits to determine whether the facility would be used in developing the TMDLs. The evaluation yielded a permitted point source discharges in subsegment 120406 (Table 2-3).

Table 2-3. Point source in the lower Terrebonne Basin

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (gpd)	Weekly ave BOD (mg/L)
LAG480431	001	The Offshore Drilling Company	Lake Decade NE bank, near Theriot	Lake Decade	1,780	45

2.5.2 Nonpoint Sources

Louisiana's section 303(d) list does not identify the suspected cause of the dissolved oxygen impairment in the subsegments of the Upper Terrebonne Basin. The source is listed as *unknown*.

3 CHARACTERIZATION OF EXISTING WATER QUALITY

3.1 Water Quality Data

Water quality data were obtained from LDEQ's routine ambient water quality monitoring program (Figure 3-1). Appendix A includes summaries of the data for the 303(d)-listed constituents, along with additional constituents used in the TMDL development process. Dissolved oxygen data were available for each of the four listed subsegments (see Table 3-1).

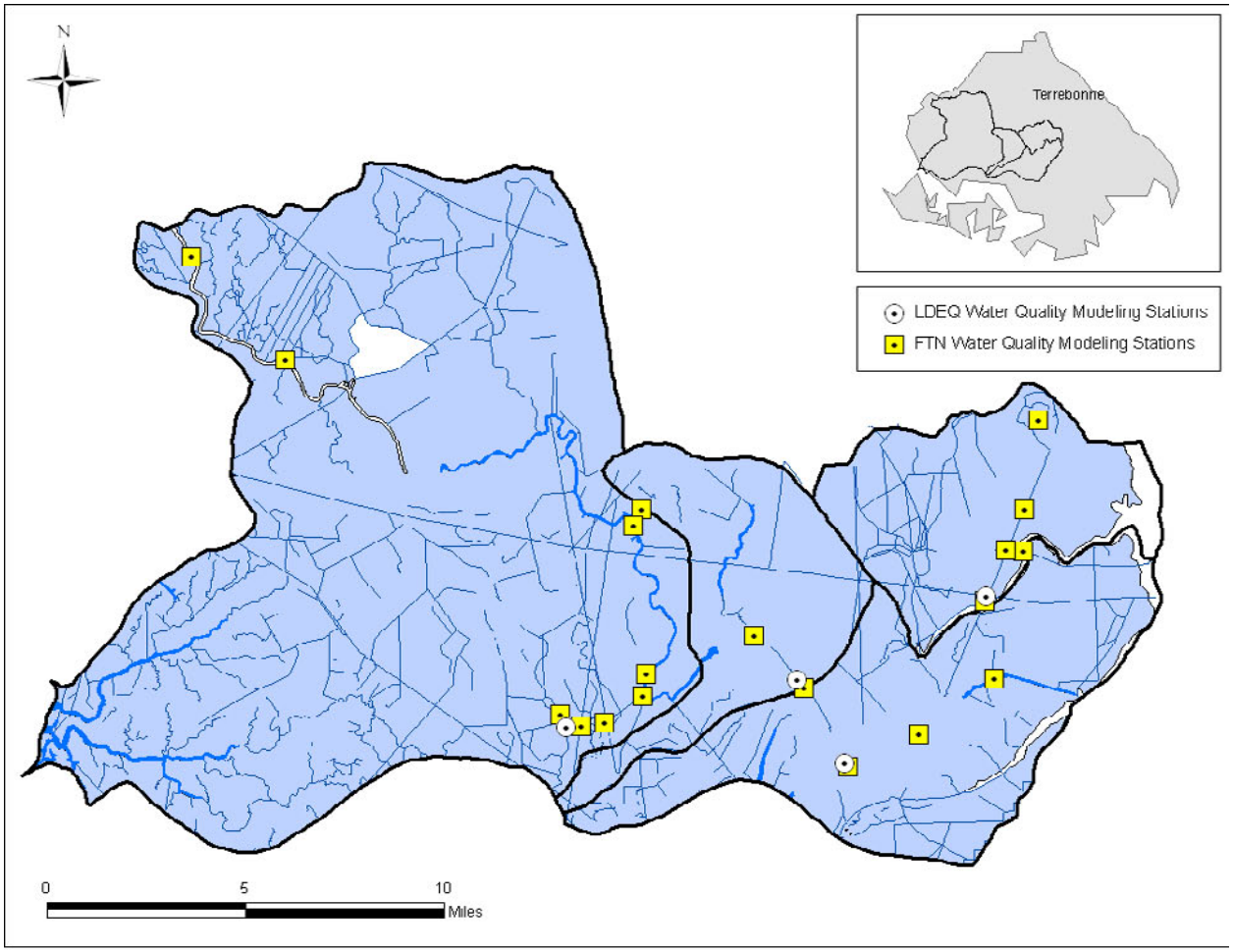

Figure 3-1. Locations of monitoring stations in the lower Terrebonne Basin.

Table 3-1. LDEQ water quality monitoring stations and dissolved oxygen data summaries

Subsegment	LDEQ station	Station name	Period of record	No. of obs.	DO min (mg/L)	DO max (mg/L)	DO ave. (mg/L)
120401	932	Bayou Carencro at Brady Canal, LA	1/26/00–10/18/00	10	3.6	9.4	5.72
120404	935	Peoples Canal north of Bayou Mauvais Bois Ridge, LA	1/26/00–12/20/00	12	2.7	8.2	5.54
120405	936	Minors Canal north of Marmande Ridge, LA	1/26/00–12/20/00	12	3.3	9.5	6.16
120406	937	Lake de Cade, LA	1/12/00–4/20/04	16	4.64	10.6	7.35

Note: DO = dissolved oxygen

A field survey of the four model subsegments was conducted in the Terrebonne Basin during July 2006. The hydrologic conditions during the field survey were typical for the Terrebonne Basin during summer (high temperatures and generally low flows). A list of the field survey sites and the types of data collected at each site is presented in Table 3-2. The water quality samples were analyzed for 20-day carbonaceous biochemical oxygen demand (CBOD) time series, total Kjeldahl nitrogen (TKN), ammonia nitrogen (NH_3-N), nitrate+nitrite nitrogen, total phosphorus, chlorophyll *a*, total organic carbon (TOC), and total suspended solids (TSS). The in situ measurements and water quality sampling results are summarized in Appendix A. Appendix A also contains summaries of the depth, widths, and flows measured with the acoustic Doppler current profiler (ADCP) instrument. Plots of the continuous monitoring data are presented in Appendix A. Copies of the field notes from the field survey are included in Appendix B.

Table 3-2. Data types from July 2006 monitoring

Subsegment	Site ID	Site name	Data types collected
120401	120401-A	Bayou Penchant southeast of Bayou Chene	In situ, sample
120401	120401-B	Bayou Penchant near Bayou Copasaw	In situ, flow
120401	120401-C	Bayou Copasaw near Bayou Penchant	In situ, sample, flow
120401	120401-D	Bayou Penchant near Brady Canal	In situ, sample
120401	120401-E	Little Carencro Bayou	In situ, flow
120401	120401-F	Carencro Bayou (Bayou Carrion Crow)	In situ, flow
120401	120401-G	Bayou Penchant near Kent Bayou Oil and Gas Field	In situ, sample
120404	120404-A	Lake Penchant	In situ, sample, depth
120404	935	Peoples Canal north of Bayou Mauvais, Bois Ridge, LA	In situ, sample, cross section, flow
120405	120405-A	Lake Hatch	In situ, sample, depth
120405	120405-C	Marmande Canal between Minors Canal and Lake Theriot	Flow
120405	120405-D	Marmande Canal east of Minors Canal	In situ, sample, level logger
120405	120405-E	Minors Canal north of Lake Theriot	in situ, cross section
120405	936	Minors Canal north of Marmande Ridge, LA	In situ, sample
120406	120406-A	Falgout Canal Bayou	In situ, sample, level logger
120406	120406-B	Lake DeCade (eastern part)	In situ, depth, contin. in situ
120406	937	Lake DeCade (western part)	In situ, sample, depth

3.2 Comparison of Observed Data to Criteria

Water quality monitoring data were obtained from LDEQ and during the July 2006 sampling event. Table 3-3 provides a summary of the LDEQ dissolved oxygen data available for stations in the model subsegments. Each station has between 10 and 16 data points. All four stations had dissolved oxygen observations below the water quality criterion of 5 mg/L.

Table 3-3. Summary of LDEQ dissolved oxygen data for the lower Terrebonne Basin

LDEQ station	Subsegment	Period of record	No. of samples	DO min. (mg/L)	DO max. (mg/L)	DO ave. (mg/L)	Percent samples < 5 mg/L
932	120401	1/26/00–10/18/00	10	3.6	9.4	5.72	30
935	120404	1/26/00–12/20/00	12	2.7	8.2	5.54	25
936	120405	1/26/00–12/20/00	12	3.3	9.5	6.16	33
937	120406	1/12/00–4/20/04	16	4.6	10.6	7.35	13

Note: DO = dissolved oxygen

Table 3-4 provides a summary of the July 2006 dissolved oxygen data for stations in the model subsegments. Each station has between 2 and 18 data points. All four stations had dissolved oxygen observations below the water quality criterion of 5 mg/L, except for subsegment 120406.

Table 3-4. Summary of dissolved oxygen data from July 2006 monitoring event

Subsegment	Number of locations	Range of sample depths	Number of samples	DO min. (mg/L)	DO max. (mg/L)	DO ave. (mg/L)	Percent samples < 5 mg/L
120401	7	3–11	18	3.0	8.9	5.1	38.9
120404	2	2.25	2	3.7	6.0	4.8	50.0
120405	4	1–15	7	3.1	10.4	6.9	14.3
120406	3	2.5–3	3	6.5	7.3	6.9	0.0

Note: DO = dissolved oxygen

4 WATER QUALITY MODEL SETUP AND CALIBRATION

4.1 Model Setup

LA-QUAL (Version 8.11) was chosen to simulate dissolved oxygen in the TMDL subsegments. LA-QUAL is a steady-state model that LDEQ developed based on the QUAL-TX (Version 3.4) model. Several modifications were made to the QUAL-TX model, including the addition of new aeration equations that better represent conditions in Louisiana.

LA-QUAL evaluates the relationships between pollutant sources and water quality. Model configuration involved setting up the model segments and setting initial conditions, boundary conditions, and hydraulic and kinetic parameters. This section describes the configuration and key components of the model.

Two models were used for the lower Terrebonne Basin: Bayou Penchant (120401)/Lake Penchant (120404); and Bayou Black (120202)/Intracoastal Waterways (120304 and 120403). Only the main stems of the systems were explicitly simulated and thus segmented for modeling purposes. Segmentation refers to separating a waterbody into smaller computational units. Segmentation occurred around major hydrological features, such as tributaries. Tributaries were represented through boundary condition designation. Appendix C contains diagrams of the model segmentations and stream kilometers.

4.2 Calibration Period

The calibration period was selected to coincide with the intensive field monitoring that had occurred in July 2006. The data used for calibration are the averages of the samples taken during the measurement period from July 10 through July 13, 2006. These dates were selected for calibration because they were the only dates for which data were available. This period is considered the critical period because high temperatures decrease dissolved oxygen saturation values and increase rates for oxygen-demanding processes, such as biochemical oxygen demand (BOD) decay, nitrification, and sediment oxygen demand (SOD). In addition, lower flow rates do not cause strong reaeration, so the exchange of oxygen between air and water is low.

4.3 Model Options (Data Type 2)

Data type 2 is used to identify the constituents being modeled to achieve calibration—for this TMDL, dissolved oxygen, BOD, and a nitrogen series (ammonia nitrogen, and nitrate+nitrite).

4.4 Program Constants (Data Type 3)

LA-QUAL is programmed with certain default program parameters. Data type 3 is used to override the default parameters and is optional; that is, values need to be entered only if values other than the default values are desired. Default values were used for all program parameters except for the hydraulic calculation method. This parameter was changed from method 1 to method 2. For descriptions of the parameters and their default values, see the LA-QUAL user manual (Wiland Consulting, Inc. 2005).

4.5 Temperature Correction of Kinetics (Data Type 4)

Data type 4 contains factors used for temperature correction in rate equations. The temperature correction factors used in the model were consistent with the *Standard Operating Procedure for Louisiana TMDL Technical Procedures* (LTP) when these factors were available (LDEQ 2005). The correction factors were as follows:

- Correction for BOD decay: 1.047 (LTP and model default)
- Correction for SOD: 1.065 (LTP and model default)
- Correction for ammonia N decay: 1.083 (model default)
- Correction for organic N decay: 1.020 (model default)
- Correction for reaeration: 1.024 (LTP and model default)

4.6 Hydraulics (Data Type 9)

These data types describe the hydraulic characteristics of the model reaches. The stream hydraulics were specified in the input file for the model using the following power functions:

$$width = a \times Q^b + c$$
$$depth = d \times Q^e + f$$

where:

a =	width coefficient	=	0.0
b =	width exponent	=	0.0
c =	width constant	=	average width of segment
d =	depth coefficient	=	0.0
e =	depth exponent	=	0.0
f =	depth constant	=	average depth of segment

The average width and depth for each segment were based on observed measurements in July 2006; they are shown in Table 4-1. Slight adjustments in some reaches to better simulate observed hydrology and water quality.

Table 4-1. Average channel widths and depths for each model segment

Model reach	120401/120404		120405/120406	
	Width (m)	Depth (m)	Width (m)	Depth (m)
1	135	1.00	1,527	1.55
2	110	1.00	1,029	1.55
3	90	1.77	25	1.55
4	155	1.77	10	1.55
5	90	1.77	2,428	0.80
6	110	1.77	20	1.90
7	35	1.77	46	1.55
8	2,131	1.77	110	1.55
9	983	1.77	30	1.55
10	148	1.77	970	0.75
11	61	1.77	50	1.55
12	72	1.40	20	1.55
13	72	1.40	--	--
14	70	1.40	--	--
15	65	1.40	--	--
16	65	1.40	--	--
17	88	1.40	--	--

4.7 Dispersion (Data Types 10 and 27)

Dispersion was specified in the model because subsegments in these models are tidally influenced. The tidal influence creates diurnal flow reversals that provide mixing and dispersive transport. Lower boundary conditions were added to the model using results from monitoring locations near the end of the reaches from the intensive study in July 2006.

4.8 Initial Conditions (Data Type 11)

Initial conditions were set for temperature, dissolved oxygen, nitrate+nitrite, and chlorophyll *a* using observed water quality data, while ammonia data were set to a constant. Because LA-QUAL is a steady-state model, the initial conditions affect only the number of iterations needed to reach steady-state conditions. Setting initial conditions on the basis of observed data reduces the amount of iterations the model must perform to reach steady-state.

Salinity, nitrate+nitrite, phosphorus, phytoplankton, and macrophytes were the parameters not simulated in the model. Their initial conditions were set to zero so that the model would not assume a fixed concentration and include their effects.

4.9 Water Quality Kinetics (Data Types 12 and 13)

Several kinetic rates, including reaeration, SOD, CBOD decay, nitrification, and mineralization (organic nitrogen decay) rates, were used in the model. Data types 12 and 13 focus on different rates used by the model. Data type 12 is needed only if BOD or dissolved oxygen is being simulated, and data type 13 is needed only if nitrogen or phosphorus is being simulated. For this TMDL, both data types were included.

The model calculates the reaeration rate by using one of a standard set of equations. For this TMDL, the O'Conner-Dobbins equation was used. This equation is applicable to moderately deep to deep channels (1 ft to 30 ft with flow between 0.5 ft/s and 12.2 ft/d). The equation is

$$K_2 = \frac{3.932 \times V^{0.969}}{D^{1.5}}$$

where:

V = stream velocity (meters per second)
D = stream depth (meters)

For the portion of the models that simulates lakes, a different method was used. This equation is

$$K_2 = \frac{a}{D}$$

where:

a = oxygen transfer coefficient (meters per day)
D = stream depth (meters)

The input files that list these values are provided in Appendix D. Table 4-2 summarizes these rates. The CBOD decay rate varied per subsegment and was based on the measured $CBOD_3$,

$CBOD_5$, $CBOD_{12}$, $CBOD_{20}$, and $CBOD_{25}$ data. Slight adjustments were made in some reaches to better simulate observed water quality. The SOD was calibrated in the model and varied per subsegment reach. SOD was calibrated after the CBOD levels were finalized. The SOD rates changed iteratively until modeled dissolved oxygen concentrations agreed well with measured water column dissolved oxygen concentrations.

Table 4-2. Water quality kinetics rates

Program constant	120401/120404	120405/120406
Background SOD ($g/m^2/d$)	0.6–2.8	1.2–2.5
BOD #1 decay rate (aerobic) (1/d)	0.05–0.12	0.01–0.31
Organic nitrogen settling rate (m/d)	0.02	0.003–0.01
Ammonia nitrogen oxidation rate (1/d)	0.1–0.15	0.2
Oxygen transfer coefficient "*a*" (m/d)	0.93	0.93

4.10 Incremental Data (Data Types 16, 17, and 18)

These data types include information on inflows and outflows from the model reaches. For this TMDL, incremental information for flow, temperature, dissolved oxygen, BOD, organic nitrogen, ammonia, and nitrate+nitrite was included. Appendix D contains the input files with these values. Incremental flow was determined from flow measurements obtained during the July 2006 monitoring.

4.11 Nonpoint Source Loads (Data Type 19)

This data type accounts for nonpoint source loads not associated with incremental and tributary flows. The nonpoint source loads that are specified in the model can be most easily understood as resuspended load from the bottom sediments and are modeled as SOD, CBOD loads, and organic nitrogen loads. The SOD (from data type 12) and the mass loads of organic nitrogen and CBOD (data type 19) were all treated as calibration parameters; their values were adjusted until the model output was similar to the calibration target values.

Typically, these three calibration parameters were adjusted in a specific order based on the interactions between state variables in the model. First, the organic nitrogen loads were adjusted until the predicted organic nitrogen concentrations were similar to the observed concentrations. Organic nitrogen was calibrated first because none of the other state variables will affect the organic nitrogen concentrations. Next, the CBOD loads were adjusted until the predicted CBOD concentrations were similar to the observed concentrations. Finally, the SOD rates were adjusted until the predicted dissolved oxygen concentrations were similar to the observed concentrations. The SOD rate was not adjusted below 0.5 grams per square meter per day ($g/m^2/day$). The dissolved oxygen was calibrated last because all the other state variables affect dissolved oxygen.

4.12 Headwater Flow, Water Quality, and Junction Data (Data Types 20, 21, 22, and 23)

These data types account for flow and water quality from upstream of the modeled subsegment. Headwater flow and water quality data were derived from monitoring data. In general, the flow measured at the most upstream station was taken as the headwater flow. Water quality data (mainly CBOD and dissolved oxygen) were estimated from the monitoring data at the most upstream stations.

4.13 Wasteload Flow and Water Quality Data (Data Types 24, 25, and 26)

These data types account for flow and water quality from point sources discharging into the listed waterbodies. The model included one permitted outflows. There were also 6 tributaries or outflows that were included as input in these data types. The input file that lists inputs and their associated flows and concentrations are provided in Table 4-3. Data from tributaries was developed from observed data. Permit design flows were used as the flows from permits. Dissolved oxygen was set to 5.0 mg/L for the permitted facility. Permitted BOD discharge limits were used for CBOD. Organic nitrogen and nitrate+nitrite were assumed from surrounding waters for the point source and ammonia was assumed. Data for tributaries was obtained from observed data, assumption, and calibration.

Table 4-3. Summary of point sources and tributaries used in LA-QUAL

Subsegment	Point source/ tributary name	Flow (mgd)	DO (mg/L)	CBOD (mg/L)	Org N (mg/L)	Ammonia (mg/L)	NO_3+NO_2 (mg/L)	Comment
120401	Trib 1 outflow	-166.775	3.70	3.42	0.95	0.05	0.02	Flow to another waterbody
120401	Trib 2 inflow	51.713	3.70	3.42	2.00	0.05	0.02	Tributary
120401	Trib 3 outflow	-441.501	3.70	3.42	0.95	0.05	0.02	Flow to another waterbody
120401	Trib 5 inflow	69.166	3.70	10.00	4.00	0.05	0.02	Tributary
120401	Trib 6 outflow	-73.045	3.70	3.42	0.95	0.05	0.02	Flow to another waterbody
120404	Trib 4 outflow	0.000	3.70	3.42	0.95	0.05	0.02	Flow to another waterbody
120406	LAG480431	0.003	5.00	45.00	0.80	0.10	0.04	Point source

4.14 Calibration and Model Results

Model calibration was a multistep process using ammonia, CBOD, and SOD concentrations for each reach, starting with the most upstream reach and working down to the outflow reach. Organic nitrogen was first adjusted so that predicted concentrations matched observed data. The ammonia and nitrate loads were then adjusted so that the predicted nitrogen concentrations would match the observed concentrations. After ammonia was calibrated, the CBOD loads were adjusted until the predicted CBOD concentrations were similar to the observed concentrations. Finally, SOD was adjusted until the predicted dissolved oxygen concentrations were similar to the observed concentrations.

Table 4-4 lists the oxygen demand loadings for calibration conditions, which were based on existing conditions. Overall, the model did well in predicting the observed values for temperature, ammonia, BOD, and dissolved oxygen, and the model was considered adequately calibrated on the basis of the data available. Plots of observed and calibration water quality are presented in Appendix E. Figure 4-1 is an example calibration plot.

Table 4-4. Existing oxygen demand

Subsegment	Oxygen demand (lb/d)				
	SOD	$CBOD_u$	Ammonia	Organic N	Total
120401	43,901	159,751	3,470	70,918	278,040
120404	15,878	10,106	473	10,554	37,011
120405	63,585	8,731	803	5,835	78,954
120406	58,273	48,322	5,923	17,675	130,192

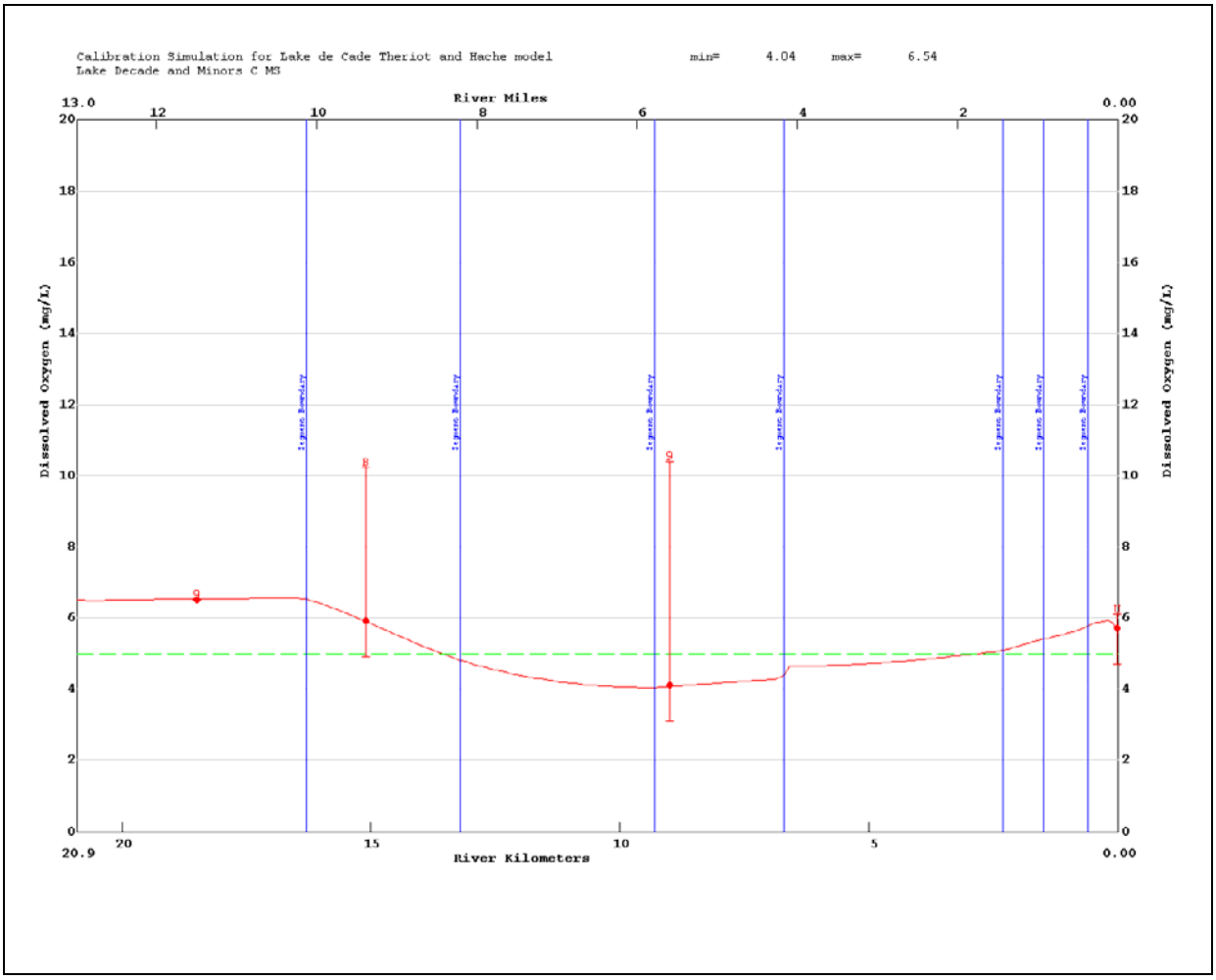

Figure 4-1. Calibration plot for dissolved oxygen in subsegment 120406.

5 WATER QUALITY MODEL PROJECTION

EPA's regulations at 40 CFR 130.7 require that parties determining TMDLs take into account critical conditions for stream flow, loading, and water quality parameters. The calibrated model was used to project water quality for critical conditions. Two scenarios were run for the critical conditions: baseline and TMDL. The model was run for baseline conditions, which used the same water quality and model parameters as the calibration model; however, the flow and temperature were changed to critical conditions and effluent water quality from permitted dischargers were changed to permit limits. The TMDL model run was the same as the baseline run; however, pollutant loadings were reduced so that dissolved oxygen met criteria at all locations. Identifying critical conditions and the model input data used for critical conditions are discussed in this section. Appendix F contains the baseline output files and Appendix G contains the TMDL output files. The output files include the input parameters.

5.1 Identification of Critical Conditions

The LDEQ LTP defines critical conditions in terms of flow and temperature. Critical flow conditions for tidally influenced regions are simulated using one-third the average or typical flow averaged over one tidal cycle, irrespective of flow. In addition, all point sources are assumed to be discharging at design capacity and at their permit limits. The LTP specifies that the critical temperature should be determined by calculating the 90th percentile seasonal temperature for the waterbody being modeled, if data are available. Otherwise, 30 degrees Celsius (ºC) was used.

5.2 Temperature Inputs

The critical temperatures for the headwaters were based on the 90th percentile temperature of LDEQ ambient monitoring in the representative subsegment. A critical temperature of 30 °C was used for incremental and wasteload inputs. Because these subsegments have a year-round standard for dissolved oxygen, a winter projection simulation was not performed. The most critical time of year for meeting a constant dissolved oxygen standard is the period of high temperatures and low flows.

5.3 Headwater and Tributary (Wasteload) Inputs

The inputs for the headwater and tributaries for the projection simulation were based on guidance in the LTP. According to the LTP, the critical flow rates for tidal systems for summer should be set to one-third the average or typical flow averaged over one tidal cycle, irrespective of flow. These flows were calculated for headwater and tributary model flows and used in the baseline and TMDL model predictions.

Dissolved oxygen from headwaters and tributaries were set to the water quality criterion of 5 mg/L or the observed concentration, whichever was greater. CBOD levels from headwaters and tributaries were reduced until modeled dissolved oxygen met the criteria. The ammonia levels were low from both the headwaters and tributaries; therefore, the ammonia inputs were not changed from the calibration values.

5.4 Point Source Inputs

Ammonia and organic nitrogen levels were changed from observed or assumed concentrations to proposed concentrations. The nitrogen concentrations were assumed to be half the amount of the oxygen demand, with two-thirds assumed to be ammonia loading and one-third as organic nitrogen loading. These assumptions are consistent with information presented in the LTP. If necessary, input concentrations were reduced to keep the dissolved oxygen concentration above 5 mg/L.

5.5 Downstream Values

Modeling parameters for downstream boundary conditions were the same as the calibration parameters except for temperature and dissolved oxygen. The temperature was set to the critical condition. The dissolved oxygen value, if below criteria, was set to the water quality standard of 5.0 mg/L.

5.6 Baseline Model Results

Baseline line conditions were run under critical conditions for calibrated parameters and water quality values. Plots of baseline water quality are presented in Appendix H. Baseline oxygen demand is presented in Table 5-1.

Table 5-1. Baseline oxygen demand

Subsegment	Oxygen demand (lb/d)				
	SOD	$CBOD_u$	Ammonia	Organic N	Total
120401	43,901	119,192	2,362	53,299	218,754
120404	15,878	10,056	467	10,498	36,900
120405	63,585	17,311	1,391	12,957	95,243
120406	58,273	48,449	5,944	17,838	130,501

5.7 Model Results for Projection

Several steps were used to develop the reduction percentages for oxygen demand. The TMDL was calculated by first iteratively reducing SOD. After meeting the dissolved oxygen criterion by reducing SOD, the CBOD reduction rate was calculated by the SOD/CBOD relationship ($SOD = a \times \sqrt{CBOD}$). Slight adjustments were made to the SOD reduction rate, and an updated CBOD reduction rate was calculated. This process was repeated until the optimal reduction rates were determined.

To meet the dissolved oxygen standard, 5.0 mg/L, total oxygen demand must be reduced from less than 1 to 21 percent. This percentage reduction for nonpoint source loads represents a percentage of the entire nonpoint source loading, not a percentage of the man-made nonpoint source loading. The nonpoint source loads in this report were not divided between natural and man-made because it would be difficult to estimate natural nonpoint source loads. Plots of predicted water quality are presented in Appendix I.

6 TMDL DEVELOPMENT

A TMDL is the total amount of a pollutant that a receiving waterbody can assimilate 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 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, and it may include a future growth (FG) component. The TMDL components are illustrated using the following equation:

$$TMDL = \Sigma WLAs + \Sigma LAs + MOS + FG$$

The LA is the portion of the TMDL assigned to nonpoint sources such as natural background loadings. For this TMDL, the LA was calculated by subtracting the WLA, MOS, and FG from the total TMDL allocation. LAs were not allocated to separate nonpoint sources because of the lack of available source characterization data.

The WLA portion of the TMDL equation is the total loading of a pollutant that is assigned to point sources. The permitted or average (expected or observed) flows were used to calculate the WLAs. If the permitted or average flow was unavailable, the permit maximum flow was used The permit maximum flow was usually the maximum flow covered by the specific type of general permit. For example, the LPDES Class II Sanitary General Permit covers facilities with flow of up to 25,000 gallons per day. Sometimes the permit maximum flow was significantly greater than the expected flow, and therefore the permit maximum was used only when other flows were not available.

Section 303(d) of the Clean Water Act and the regulations at 40 CFR 130.7 require that TMDLs include an MOS to account for uncertainty in available data or in the actual effect that controls will have on the loading reductions and receiving water quality. The MOS may be expressed explicitly as unallocated assimilative capacity or implicitly using conservative assumptions in establishing the TMDL. In addition to the MOS, an FG component may be added to account specifically for FG in the TMDL area.

There are two ways to incorporate the MOS (USEPA 1991). One way is to implicitly incorporate it by using conservative model assumptions to develop allocations, including the following:

- *Using slightly higher water temperatures than the suggested water temperature.* If dissolved oxygen meets the criterion with higher water temperature, it will meet the criterion with lower water temperature when other factors remain unchanged.
- *Using the dissolved oxygen water quality criterion for model inflows.* Dissolved oxygen from headwaters and tributaries was set to the water quality criterion, which is lower than the 90 percent saturation level of dissolved oxygen at 30 ºC.

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 explicit: 10 percent of each targeted TMDL was reserved as the MOS to account for any uncertainty in the TMDL. Using 10 percent of the TMDL load provides an additional level of protection to the designated uses of the subsegments of concern.

The MOS is an allocation for scientific uncertainly, while the FG is an allocation for growth. Ten percent of the load was allocated for FG in the area covered by the TMDL. This growth includes future urban development, including point sources, MS4 areas, agriculture, and other nonpoint sources. The FG could also be used for sources not accounted for or unknown and therefore not otherwise included in the TMDL.

6.1 Dissolved Oxygen TMDLs

The dissolved oxygen TMDLs are presented as oxygen demand from CBOD, ammonia, organic nitrogen, and SOD, and they were derived using the LA-QUAL model. A summary of the TMDLs is presented in Table 6-1. The TMDLs were calculated from SOD, CBOD, ammonia, and organic nitrogen from nonpoint source model inputs, tributary flows, incremental flows, and background. Table 6-2 presents a summary of the reduction percentages for LAs; there were no reductions for WLAs, thus reductions from point sources are not required as a result of this TMDL. The reduction percentages for total oxygen demand ranged from less than 1 to 21 percent.

The WLA is presented in Table 6-3. It was calculated using weekly average permit limit and the expected discharge flow. The nitrogen loading was assumed to be half the amount of the oxygen demand, with two-thirds was assumed to be ammonia loading and one-third as organic nitrogen loading. These assumptions are consistent with information presented in the LTP. Reductions from point source discharges are not required as a result of this TMDL.

Table 6-1. Summary of dissolved oxygen TMDLs, WLAs, LAs, MOSs, and FGs for the lower Terrebonne Basin

Subsegment	Oxygen demand (lb/d)				
120401	SOD	CBOD	Ammonia	Organic Nitrogen	Total
WLA	0.00	0.00	0.00	0.00	0.00
MOS for WLA	0.00	0.00	0.00	0.00	0.00
FG for WLA	0.00	0.00	0.00	0.00	0.00
LA	35,121.04	95,353.91	1,889.29	42,639.13	175,003.37
MOS for LA	4,390.13	11,919.24	236.16	5,329.89	21,875.42
FG for LA	4,390.13	11,919.24	236.16	5,329.89	21,875.42
TMDL	43,901.30	119,192.39	2,361.61	53,298.91	218,754.22

Table 6-1. (continued)

Subsegment	Oxygen demand (lb/d)				
120404	**SOD**	**CBOD**	**Ammonia**	**Organic Nitrogen**	**Total**
WLA	0.00	0.00	0.00	0.00	0.00
MOS for WLA	0.00	0.00	0.00	0.00	0.00
FG for WLA	0.00	0.00	0.00	0.00	0.00
LA	12,674.81	8,045.13	373.67	8,398.65	29,492.25
MOS for LA	1,584.35	1,005.64	46.71	1,049.83	3,686.53
FG for LA	1,584.35	1,005.64	46.71	1,049.83	3,686.53
TMDL	15,843.51	10,056.41	467.08	10,498.31	36,865.32
Subsegment	**Oxygen demand (lb/d)**				
120405	**SOD**	**CBOD**	**Ammonia**	**Organic Nitrogen**	**Total**
WLA	0.00	0.00	0.00	0.00	0.00
MOS for WLA	0.00	0.00	0.00	0.00	0.00
FG for WLA	0.00	0.00	0.00	0.00	0.00
LA	50,867.98	5,509.87	671.26	3,031.74	60,080.84
MOS for LA	6,358.50	688.73	83.91	378.97	7,510.11
FG for LA	6,358.50	688.73	83.91	378.97	7,510.11
TMDL	63,584.98	6,887.33	839.07	3,789.67	75,101.06
Subsegment	**Oxygen demand (lb/d)**				
120406	**SOD**	**CBOD**	**Ammonia**	**Organic Nitrogen**	**Total**
WLA	0.00	0.67	0.96	0.48	2.12
MOS for WLA	0.00	0.08	0.12	0.06	0.26
FG for WLA	0.00	0.08	0.12	0.06	0.26
LA	46,618.22	38,758.46	4,754.46	14,269.76	104,400.90
MOS for LA	5,827.28	4,844.81	594.31	1,783.72	13,050.11
FG for LA	5,827.28	4,844.81	594.31	1,783.72	13,050.11
TMDL	58,272.78	48,448.91	5,944.28	17,837.80	130,503.77

Table 6-2. Summary of percent reductions for LAs in the lower Terrebonne Basin

Subsegment	Percent reduction				
	SOD	**CBOD**	**Ammonia**	**Organic Nitrogen**	**Total**
120401	0.00	0.00	0.00	0.00	0.00
120404	0.22	0.00	0.00	0.00	0.09
120405	0.00	60.21	39.69	70.75	21.15
120406	0.00	0.00	0.00	0.00	0.00

Table 6-3. WLAs for lower Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	Parm.	Conc. (mg/L)	Load (lb/d)
LAG480431	001	The Offshore Drilling Company	0.00178	BOD	45.0	0.668
				Ammonia	15.0	0.223
				Org. Nit.	7.5	0.139

6.1.1 Seasonal Variation

Critical conditions for dissolved oxygen in Louisiana waterbodies have been determined to be the following: negligible nonpoint runoff and low stream flow combined with high water temperatures. Oxygen-demanding substances can enter a water system during high flows and settle to the bottom, where they exert a large oxygen demand during the high-temperature/low-flow seasons. Water temperature is one of the leading factors that affect dissolved oxygen in the three segments. High water temperatures lower the dissolved oxygen saturation concentration, decreasing the amount of dissolved oxygen that the stream can contain. In addition, high temperature increases CBOD decay and SOD. Therefore, it is most important to develop a TMDL to address the high-water-temperature conditions.

6.1.2 Sensitivity Analysis

A sensitivity analysis was performed on the model parameters using the sensitivity function built into LA-QUAL. LA-QUAL automatically changed the requested parameters by a set amount while keeping all other parameters constant. The calibration scenario was used as the baseline for the sensitivity analysis. For the analysis, all parameters were varied by ±30 percent. The results for dissolved oxygen and BOD are shown in Table 6-4. Result plots are shown in Appendix J. Changes to the stream reaeration, stream velocity, and background SOD had the largest influence on dissolved oxygen levels. Stream dispersion had no effect on dissolved oxygen.

Table 6-4. Results of sensitivity analysis

		BOD (mg/L)						DO (mg/L)					
		BOD aerobic decay rate	BOD settling rate	Stream dispersion	Stream reaeration	Background SOD	Stream velocity	BOD aerobic decay rate	BOD settling rate	Stream dispersion	Stream reaeration	Background SOD	Stream velocity
120401	-30%	6.16	5.44	6.21	5.44	5.44	4.58	5.81	5.62	5.71	5.42	6.17	5.69
	base	5.44	5.44	5.44	5.44	5.44	5.44	5.62	5.62	5.62	5.62	5.62	5.62
	30%	4.82	5.44	4.84	5.44	5.44	5.99	5.46	5.62	5.55	5.75	4.98	5.59
120404	-30%	1.71	1.27	1.24	1.27	1.27	0.85	4.70	4.70	4.70	4.04	4.70	4.70
	base	1.27	1.27	1.27	1.27	1.27	1.27	4.70	4.70	4.70	4.70	4.70	4.70
	30%	0.96	1.27	1.31	1.27	1.27	1.60	4.65	4.70	4.70	4.70	3.97	4.70
120405 (Lake Hatch)	-30%	17.91	14.07	15.21	14.07	14.07	11.03	6.99	6.68	6.47	6.59	7.74	7.56
	base	14.07	14.07	14.07	14.07	14.07	14.07	6.68	6.68	6.68	6.68	6.68	6.68
	30%	11.52	14.07	13.15	14.07	14.07	16.53	6.53	6.68	6.81	6.75	5.61	6.17
120405 (Lake Theriot)	-30%	2.72	2.72	2.72	2.72	2.72	2.72	2.64	5.47	6.00	5.12	6.73	6.36
	base	2.72	2.72	2.72	2.72	2.72	2.72	5.78	5.78	5.78	5.78	5.78	5.78
	30%	2.72	2.72	2.72	2.72	2.72	2.72	2.72	5.66	5.62	6.16	4.83	5.43
120406	-30%	2.72	2.10	2.41	2.10	2.10	1.22	4.41	4.04	4.03	3.07	4.87	4.34
	base	2.10	2.10	2.10	2.10	2.10	2.10	4.04	4.04	4.04	4.04	4.04	4.04
	30%	1.43	2.10	1.86	2.10	2.10	2.72	3.80	4.04	4.05	4.63	3.20	3.86

6.1.3 Ammonia Toxicity Analysis

An analysis was performed on the model input and modeled results to determine whether the modeled ammonia concentrations exceeded EPA criteria for ammonia toxicity (USEPA 1999). The EPA criteria are dependent on temperature and pH. Temperature was taken from the model output. Because pH is not included in the model, it was obtained from levels observed during the July 2006 monitoring event. The resulting criteria and the model-predicted ammonia concentrations are presented in Table 6-5. These concentrations were below the EPA ammonia toxicity criteria and show that the criteria will not be exceeded during critical conditions. These results do not require ammonia or organic nitrogen permit limits for the permits included in this document. If LDEQ determines there is no reasonable potential for a discharger to exceed the ammonia or organic nitrogen WLAs, then a permit may omit these parameters and still comply with this TMDL. The ammonia toxicity calculations are included in Appendix K.

Table 6-5. Predicted ammonia concentration and calculated critical criteria

Subsegment	Predicted ammonia (mg/L)		Calculated critical criteria (mg/L)	
	Minimum	Maximum	Minimum	Maximum
120401	0.09	0.15	0.32	1.70
120404	0.04	0.16	1.98	2.04
120405	0.04	0.11	0.11	1.27
120406	0.06	0.11	0.92	0.92

6.2 Nutrient TMDLs

Nutrients can enter a water system through surface runoff. Once they are in the environment, the most recognizable effect is algae blooms. The buildup of nutrients that leads to the blooms can occur over time even if the effects are not noticed in the short term. When algae die, the result is increased oxygen demand, which is detrimental to aquatic life.

The state's nutrient criteria are narrative and include the following language (LDEQ 2007):

> The naturally occurring range of nitrogen-phosphorous ratios shall be maintained. This range shall not apply to designated intermittent streams. To establish the appropriate range of ratios and compensate for natural seasonal fluctuations, the administrative authority will use site-specific studies to establish limits for nutrients. Nutrient concentrations that produce aquatic growth to the extent that it creates a public nuisance or interferes with designated water uses shall not be added to any surface waters.

To accomplish this, water quality data were collected from non-nutrient impaired subsegments in the Terrebonne Basin. The data included total phosphorus, nitrate+nitrite, and TKN. The nitrate+nitrite and TKN were summed to obtain the total nitrogen concentration. Table 6-6 presents the average concentrations by monitoring location for the non-impaired subsegments. The minimum, mean, and maximum are presented for total phosphorus and total nitrogen.

The data in Table 6-6 were compared with the observed data for the nutrient-impaired subsegments in Table 6-7. The total nitrogen to total phosphorus ratio and mean concentrations in the nutrient listed subsegments are within the ratio and concentration ranges for the non-

impaired subsegments. Because of this, no nutrient reductions were necessary for the subsegments listed in Table 6-7.

Table 6-6. Nutrient concentrations in non-impaired subsegments

Subsegment	Subsegment name	Site ID	Total P (mg/L)	NO_2+NO_3 (mg/L)	TKN (mg/L)	Total N (mg/L)	Total N/ total P ratio
120205	Lake Palourde	338	0.15	0.16	1.17	1.33	8.87
120402	Bayou Chene	933	0.15	0.80	0.81	1.60	10.67
120506	Bayou du Large	941	0.15	0.25	0.98	1.23	8.20
120508	Houma Navigation Canal	344	0.13	0.36	0.77	1.13	8.69
120703	Bayou du Large	950	0.14	0.10	0.94	1.04	7.43
		Minimum	0.13	0.10	0.77	1.04	8.00
		Mean	0.14	0.33	0.93	1.27	9.07
		Maximum	0.15	0.80	1.17	1.60	10.67

Table 6-7. Nutrient concentrations in the impaired subsegments in the lower Terrebonne Basin

Subsegment	Subsegment name	Total P (mg/L)	NO_2+NO_3 (mg/L)	TKN (mg/L)	Total N (mg/L)	Total N/ total P ratio
120405	Lake Hatch and Lake Theriot	0.11	0.37	0.89	1.25	11.36
120406	Lake de Cade	0.11	0.19	0.95	0.82	7.45

Because of the lack of flow data for the Terrebonne Basin, the monthly water yield (runoff in millimeters) was used to obtain TMDL loadings. The monthly water yield for the Southeast Climate Division was obtained from the Louisiana Office of State Climatology. The monthly water yield was divided by the number of days in the month to obtain runoff intensity. The average water yield was 2.402 millimeters.

The nutrient TMDLs are presented in Table 6-8. The water yield was used with the mean reference stream concentration to determine the LA portion of the TMDL. Because no reductions to nutrients were required, it is assumed that the point sources may continue to discharge at their current concentration level of nutrients and not make any deleterious effect on water quality. Any increase in nutrient effluent concentrations could require additional monitoring and modeling and a revision to this TMDL.

Table 6-8. Summary of nutrient TMDLs, WLAs, LAs, MOSs, and FGs for the lower Terrebonne Basin

Subsegment	∑ WLA (lb/d)	∑ LA (lb/d)	MOS	FG (10%) (lb/d)	Total allowable loading(lb/d)	Percent reduction
Total phosphorus						
120405	0.000	0.096	Implicit	0.011	0.106	0.000
120406	0.000	0.158	Implicit	0.018	0.176	0.000
Total nitrogen						
120405	0.000	0.868	Implicit	0.10	0.96	0.000
120406	0.000	1.403	Implicit	0.16	1.56	0.000

7 FUTURE ACTIVITIES

7.1 TMDL Implementation Strategies

EPA Region 6 has funded a use attainability assessment (UAA) study for the *Development of Site-Specific Dissolved Oxygen Criteria for the Terrebonne Basin, Louisiana*. On January 31, 2008, the contractor (Tetra Tech, Inc.) submitted a draft report for EPA's review. In addition, the state is involved in analyzing available data for the Barataria and Terrebonne basin waters to evaluate and possibly revise the existing dissolved oxygen criterion.

Once LDEQ adopts and EPA approves the revised dissolved oxygen criteria, LDEQ will reassess the 303(d) listed subsegments for dissolved oxygen and nutrients in the Terrebonne Basin. If the reassessment of a subsegment indicates a subsegment is not impaired on the basis of revised criteria, if appropriate, the dissolved oxygen and nutrients TMDLs may be withdrawn, and EPA will publish a public notice. If the reassessment of a subsegment indicates that the subsegment is impaired on the basis of the revised criteria, if appropriate, the dissolved oxygen and nutrients TMDLs may be revised, and EPA will publish a public notice.

Reasonable assurance is needed that the water quality criterion will be attained. As a first step to implement these dissolved oxygen and nutrients TMDLs, it is recommended that LDEQ complete a reassessment of the 303(d)-listed subsegments in the Terrebonne Basin using the new adopted dissolved oxygen criteria to verify if the subsegment is not impaired or still considered impaired. WLAs will be implemented through Louisiana Pollutant Discharge Elimination System (LPDES) permit procedures. Part of the LAs might be implemented through the LDEQ 305(b) program and set priorities for the Clean Water Act section 319 program. BMPs from the implementation plan will be implemented throughout the subsegment. This approach will reduce the loadings and improve dissolved oxygen levels in the subsegment and subsequent downstream subsegments.

Hurricane Katrina made landfall on Monday, August 29, 2005, as a Category 4 hurricane. The storm brought heavy winds and rain to southeast Louisiana, breaching several levees and flooding up to 80 percent of New Orleans and large areas of coastal Louisiana. Both Hurricanes Katrina and Rita have caused a significant amount of change in sedimentation and water quality in southern Louisiana. Many wastewater treatment facilities were temporarily or permanently damaged. Some wastewater treatment facilities will be rebuilt; others will be relocated. Several federal and state agencies, including EPA and LDEQ, are engaged in collecting environmental data and assessing the recovery of the Gulf of Mexico waters.

The proposed TMDLs in this report were developed on the basis of pre- and post-hurricane water quality conditions. Some point sources in this TMDL have been updated with post-hurricane information, where available. Post-hurricane water quality conditions and other factors could delay the implementation of these proposed TMDLs, render some proposed TMDLs obsolete, or require modifications of the TMDLs. Although hurricane effects may be valid for some TMDLs, any deviation from the TMDLs should be justified using site-specific data or information.

7.2 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. The LDEQ 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 section 303(d) list of impaired waters.

LDEQ has implemented a watershed approach to surface water quality monitoring. Through the approach, the entire state is sampled on a 4-year cycle. Long-term trend monitoring sites at various locations on the large rivers and Lake Pontchartrain are sampled throughout the 4-year cycle. Sampling is conducted monthly 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 during each biennial cycle; sampling occurs statewide each year. The 4-year cycle follows an initial 5-year rotation that covered all basins in the state according to the TMDL priorities.
Monitoring will allow LDEQ to determine whether there has been any improvement in water quality following TMDL implementation. As the monitoring results are evaluated at the end of each year, waterbodies might be added to or removed from the section 303(d) list of impaired waterbodies.

8 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 was published in the *Federal Register* on October 30, 2007, and the review period closed on November 29, 2007.

LDEQ submitted the only comments received during the public comment period. Comments and additional information submitted during this public comment period were used to inform or revise this TMDL document. The comments and responses to these TMDLs, along with comments on similar TMDLs with the same public review period, will be included in the document: *EPA Responses to Comments for Dissolved Oxygen, Nutrients, pH, and Mercury TMDLs in the Red River, Sabine River, and Terrebonne Basins, Louisiana.*

EPA will submit the final TMDLs to LDEQ for implementation and incorporation into LDEQ's current water quality management plan.

REFERENCES

LDEQ (Louisiana Department of Environmental Quality). 2004. *Water Quality Integrated Report*. Prepared pursuant to section 305(b) of the Federal Water Pollution Control Act. <http://www.deq.louisiana.gov/protal/Default.aspx?tabid=2201>. Accessed April 5, 2007.

LDEQ (Louisiana Department of Environmental Quality). 2005. *Standard Operating Procedure for Louisiana Total Maximum Daily Load Technical Procedures*. 9th revision. Louisiana Department of Environmental Quality Office of Environmental Assessment, Baton Rouge, LA.

LDEQ (Louisiana Department of Environmental Quality). 2007. Title 33, Environmental Quality; Part IX, Water Quality; Subpart 1, Water Pollution Control. <http://www.deq.louisiana.gov/portal/LinkClick.aspx?link=planning%2fregs%2ftitle33%2f33v09.pdf&tabid=1674.> Accessed September 14, 2007.

Mason, A.E., Y. Xu, P. Saksa, A. Viosca, J.M. Grace, J. Beebe, and R. Stich. 2007. Streamflow and Nutrient Dependence of Temperature Effects on Dissolved Oxygen in Low-order Forest Streams. In *Watershed Management to Meet Water Quality Standards and TMDLs (Total Maximum Daily Load): Proceedings of the 10–14 March 2007, San Antonio, TX 701P0207*. American Society of Agricultural and Biological Engineers, St. Joseph, MI.

Murphy, S. 2005. *General Information on Dissolved Oxygen*. City of Boulder/U.S. Geological Survey Water Quality Monitoring. <http://bcn.boulder.co.us/basin/data/BACT/info/DO.html>.Accessed April 8, 2007.

Scorecard. 2005. Pollutants or Environmental Stressors Impairing Water Quality. Scorecard: The Pollution Information Site. <http://www.scorecard.org/env-releases/def/cwa_cause_class_def.html>. Accessed April 8, 2007.

USEPA (U.S. Environmental Protection Agency). 1991. *Guidance for Water Quality-based Decisions: The TMDL Process*. EPA 440/-4-91-001. U.S. Environmental Protection Agency, Office of Water, Washington, DC.

USEPA (U.S. Environmental Protection Agency). 1999. *1999 Update of Ambient Water Quality Criteria for Ammonia*. EPA 822-R-99-014. U.S. Environmental Protection Agency, Office of Water, Washington, DC.

Wiland Consulting, Inc. 2005. *LA-QUAL for Windows. User's Manual*. Model Version 7.02. Prepared for Louisiana Department of the Environment, Watershed Support Division, Engineering Section, by Wiland Consulting, Inc., Austin, TX.

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Table A-1. In situ data collected during the July 2006 sampling event

Subsegment	Site ID	Site name	Date	Time	Sample depth (ft)	Water temp. (°C)	DO (mg/L)	Specific conductivity (µmhos/cm)	pH (s.u.)
120401	120401-A	Bayou Penchant southeast of Bayou Chene	7/18/06	1000	3	31.3	5.7	420	8.3
					6	31.1	5.2	420	8.3
					11	31.1	5.3	420	8.2
	120401-B	Bayou Penchant near Bayou Copasaw	7/20/06	1035	3	32.6	6.1	640	7.5
					5.5	32.2	5.6	640	7.3
					10	32.1	5.4	613	7.3
	120401-C	Bayou Copasaw near Bayou Penchant	7/20/06	1122	3	32.2	6.6	501	7.8
					5	31.9	6.1	500	7.6
					9	31.9	5.8	501	7.7
	120401-D	Bayou Penchant near Brady Canal	7/20/06	952	3	31.6	4.3	570	7.4
					5.5	31.5	4.1	570	7.3
					10	31.5	3.7	575	7.2
	120401-E	Little Carencro Bayou	7/20/06	910	3	32.7	3.5	1,559	7.5
					7	32.6	3.3	1,660	7.4
	120401-F	Carencro Bayou (Bayou Carrion Crow)	7/20/06	840	3	32.2	3.5	1,670	7.4
					6	32.2	3.0	2,070	7.3
	120401-G	Bayou Penchant near Kent Bayou Oil and Gas Field	7/18/06	1124	3	32.6	8.9	411	8.8
					10	30.9	5.1	416	8.3
120404	935	Peoples Canal north of Bayou Mauvais Bois Ridge, LA	7/20/06	732	2.25	31.5	3.7	394	7.0
	120404-A	Lake Penchant	7/20/06	754	2.25	31.0	6.0	345	7.0
120405	936	Minors Canal north of Marmande Ridge, LA	7/17/06	1719	3	32.7	10.4	575	8.4
					9	32.4	3.1	533	7.4
	120405-A	Lake Hatch	7/21/06	1115	1.5	31.1	8.7	516	9.3
	120405-B	Lake Theriot							
	120405-C	Marmande Canal between Minors Canal and Lake Theriot	7/17/06	1645	3	32.1	7.5	530	7.8
					8	32.1	5.9	493	7.6
					15	32.1	6.1	490	7.6
	120405-D	Marmande Canal east of Minors Canal	7/17/06	1610	1	31.6	6.9	480	7.6
120406	937	Lake DeCade (western part)	7/17/06	1032	2.5	31.3	6.5	5,050	7.7
	120406-A	Falgout Canal Bayou	7/17/06	1500	3	31.4	7.0	3,750	8.1
	120406-B	Lake DeCade (eastern part)	7/17/06	1800	3	31.4	7.3	4,055	8.0

Table A-2. Water quality data from July 2006 sampling event

Subsegment	Site ID	Date	TSS (mg/L)	Total phos. (mg/L)	Chloro -phyll *a* (µg/L)	TOC (mg/L)	TKN (mg/L)	Ammonia as N (mg/L)	NO_3 + NO_2 N (mg/L)
120401	120401-A	7/18/06	59	0.22	0.070	7.00	1.70	< 0.1	0.56
	120401-C	7/20/06	22	0.11	0.024	8.10	1.50	< 0.1	0.05
	120401-D	7/20/06	26	0.12	0.038	7.90	2.90	0.13	0.05
	120401-G	7/18/06	40	0.23	0.080	6.70	1.90	< 0.1	0.09
120404	935	7/20/06	19	0.11	< 0.02	6.80	1.00	< 0.1	< 0.04
	120404-A	7/20/06	14	0.08	< 0.02	6.60	0.91	< 0.1	< 0.04
120405	936	7/17/06	21	0.15	0.053	7.50	1.50	< 0.1	0.04
	120405-A-1	7/21/06	14	0.09	0.094	11.00	1.90	< 0.1	< 0.04
	120405-A-2	7/21/06	14	0.09	0.088	10.00	2.20	< 0.1	< 0.04
	120405-D	7/17/06	43	0.13	0.028	7.10	1.10	< 0.1	< 0.04
120406	937	7/17/06	17	0.11	< 0.02	7.20	1.00	< 0.1	< 0.04
	120406-A	7/17/06	34	0.17	0.030	8.30	1.50	< 0.1	< 0.04

Table A-3. CBOD monitoring results from July 2006 sampling event

Subsegment	Site ID	$CBOD_3$ (mg/L)	$CBOD_5$ (mg/L)	$CBOD_{12}$ (mg/L)	$CBOD_{18}$ (mg/L)	$CBOD_{25}$ (mg/L)	$CBOD_u$ decay rate (1/day)	$CBOD_U$ (mg/L)
120401	120401-A	2.2	4.1	7.5	7.1	12.0	0.05	16.08
	120401-C	2.2	3.1	5.7	5.8	6.0	0.18	6.17
	120401-D	< 2	2.6	5.4	5.0	5.2	0.59	5.21
	120401-G	3.7	5.4	16.0	18.0	18.0	0.15	19.33
120404	935	< 2	< 2	3.4	3.3	3.5	0.36	3.42
	120404-A	< 2	< 2	3.2	2.8	2.9	0.27	3.01
120405	936	3.0	4.3	8.2	8.8	4.7	0.35	7.16
	120405-A-1	4.9	7.0	8.2	9.3	20.0	0.04	28.07
	120405-A-2	4.6	6.6	9.9	17.0	25.0	0.04	37.98
	120405-D	< 2	2.6	5.3	4.2	4.0	0.60	4.50
120406	937	< 2	2.1	2.9	2.0	3.2	0.31	2.72
	120406-A	2.4	3.6	5.5	4.9	5.3	0.33	5.26

Table A-4. Summary of Acoustic Doppler Current Profiler data for 120401-B and 120401-C

Station	120401-B		120401-C		
Run	R1	R2	R1	R2	R3
Geometry					
Area (ft^2)	2,038	2,048	1,815	1,930	1,899
River width (ft)	354	352	381	422	414
Calculated average depth (ft)	5.8	5.8	4.8	4.6	4.6
Average depth (ft)	5.8		4.6		
Flows					
Total discharge (cfs)	594.33	597.47	186.7	138.13	218.09
Flow direction (deg)	170.1	174.5	240.5	250.5	239.0
Average flow (cfs)	595.9		181.0		

Table A-5. Summary of Acoustic Doppler Current Profiler data for 120401-E and 120401-F

Station	120401-E			120401-F		
Run	R1	R2	R1	R2	R4	R5
Geometry						
Area (ft^2)	930	933	23	614	726	643
River width (ft)	216	217	14	138	191	159
Calculated average depth (ft)	4.3	4.3	1.6	4.4	3.8	4.0
Average depth (ft)	4.3		3.5			
Flows						
Total discharge (cfs)	-449.4	-436.4	-0.8	-20.33	-29	-19.4
Flow direction (deg)	84.9	76.9	45.1	64.0	31.1	66.5
Average flow (cfs)	-442.9		-17.4			

Table A-6. Summary of Acoustic Doppler Current Profiler data for 120405-C and 120405-E

Station	120405-C			120405-E
Run	R1	R2	R3	R1
Geometry				
Area (ft^2)	104	1930	753	965
River width (ft)	13	422	121	190
Calculated average depth (ft)	7.9	4.6	6.2	5.1
Average depth (ft)	185.4			5.1
Flows				
Total discharge (cfs)	11.66	138.13	-38.91	108.84
Flow direction (deg)	177.1	250.5	110.6	202.4
Average flow (cfs)	37.0			108.8

Table A-7. Available total nitrite+nitrate data for the lower Terrebonne Basin

Subsegment	Station	Station name	Period of record	No. of Obs.	Total NO_2+NO_3 minimum (mg/L)	Total NO_2+NO_3 maximum (mg/L)	Total NO_2+NO_3 average (mg/L)
120102	969	Bayou Poydras	2/1/00-11/16/04	20	0.02	1.74	0.25
120103	336	Bayou Choctaw	1/15/91-11/16/04	109	0.02	2.28	0.32
120105	971	Chamberlin Canal	2/1/00-11/16/04	23	0.02	1.58	0.23
120106	972	Bayou Plaquemine	2/1/00-11/16/04	21	0.05	1.67	0.53
120109	975	ICWW	2/1/00-11/16/04	23	0.09	1.97	0.96

Table A-8. Available total Kjeldahl nitrogen data for the lower Terrebonne Basin

Subsegment	Station	Station name	Period of record	No. of Obs.	TKN minimum (mg/L)	TKN maximum (mg/L)	TKN average (mg/L)
120102	969	Bayou Poydras	2/1/00-11/16/04	23	0.35	2.21	1.22
120103	336	Bayou Choctaw	1/15/91-11/16/04	109	0.23	2.88	1.01
120105	971	Chamberlin Canal	2/1/00-11/16/04	23	0.52	2.6	1.24
120106	972	Bayou Plaquemine	2/1/00-11/16/04	23	0.13	2.0	0.90
120109	975	ICWW	2/1/00-11/16/04	23	0.15	1.61	0.80

Table A-9. Available total phosphorus data for the lower Terrebonne Basin

Subsegment	Station	Station name	Period of record	No. of Obs.	Total phos. minimum (mg/L)	Total phos. maximum (mg/L)	Total phos. average (mg/L)
120102	969	Bayou Poydras	2/1/00-11/16/04	23	0.13	0.67	0.30
120103	336	Bayou Choctaw	1/15/91-11/16/04	109	0.07	0.76	0.24
120105	971	Chamberlin Canal	2/1/00-11/16/04	23	0.17	0.56	0.32
120106	972	Bayou Plaquemine	2/1/00-11/16/04	22	0.14	0.65	0.26
120109	975	ICWW	2/1/00-11/16/04	23	0.12	0.59	0.27

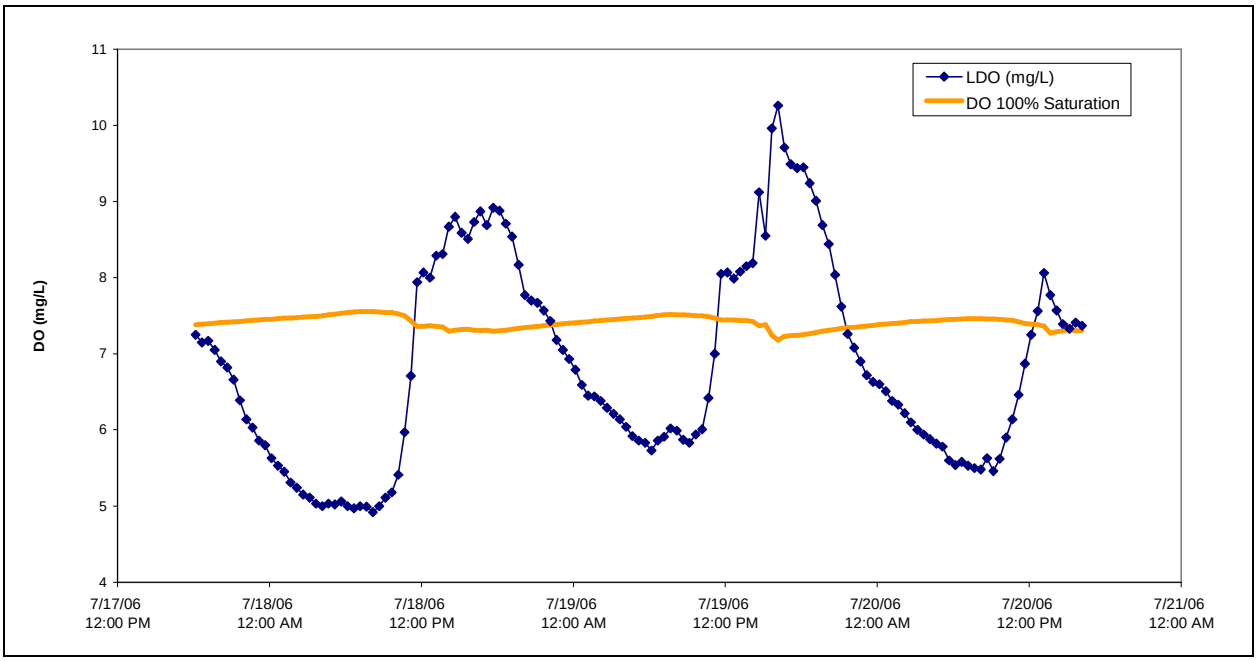

Figure A-1. Continuous monitoring dissolved oxygen data at Lake de Cade (120406-B).

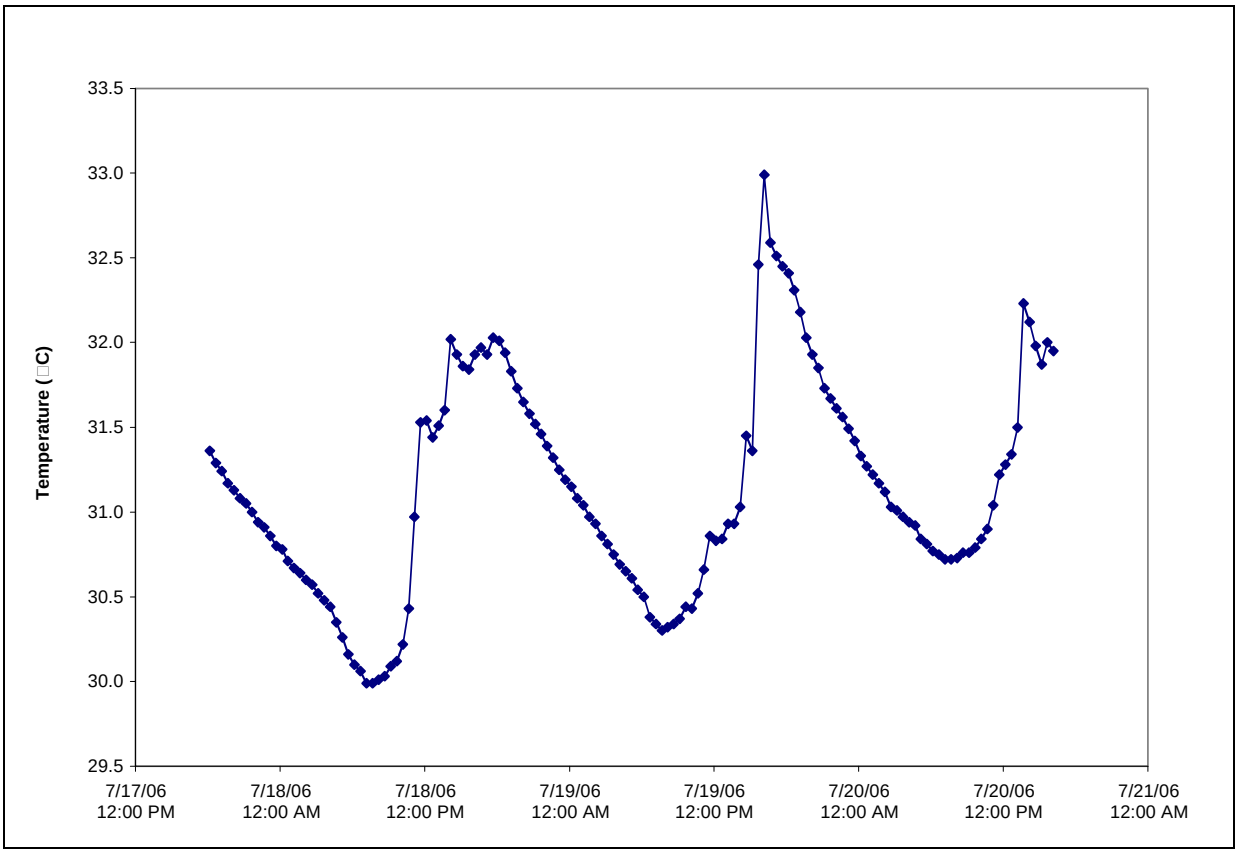

Figure A-2. Continuous temperature data at Lake de Cade (120406-B).

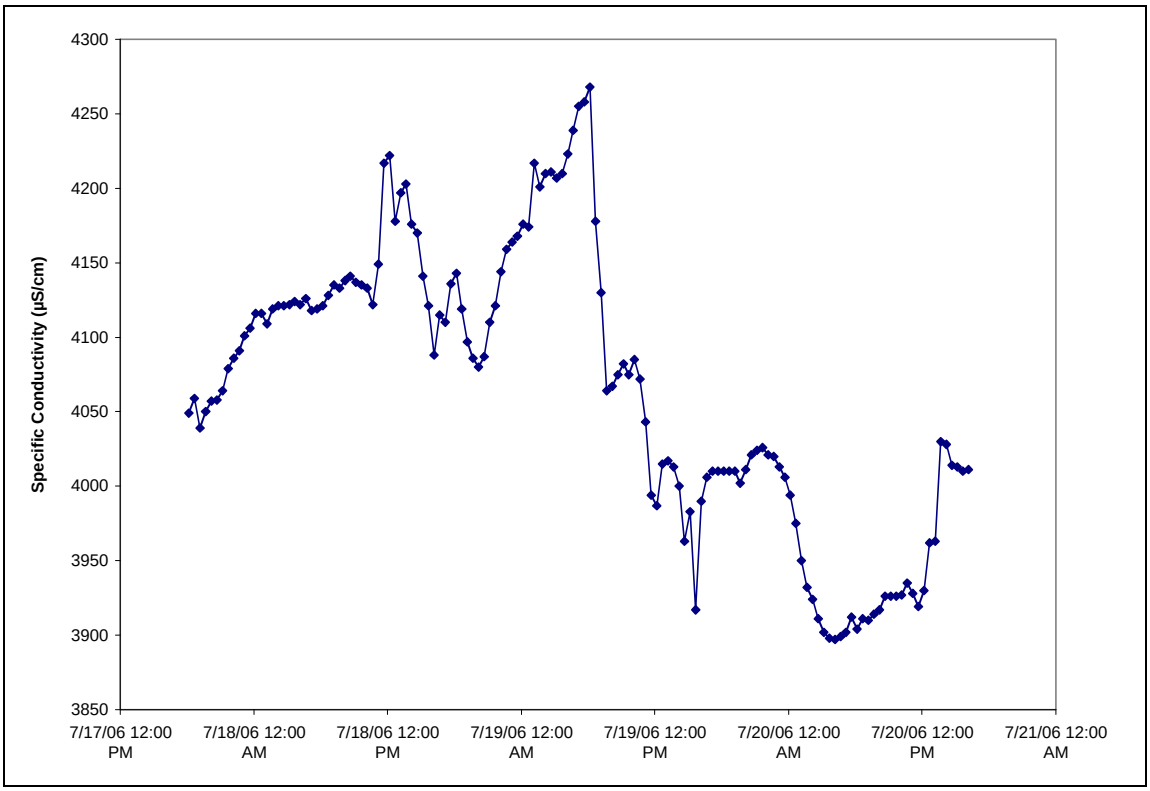

Figure A-3. Continuous specific conductivity data at Lake de Cade (120406-B).

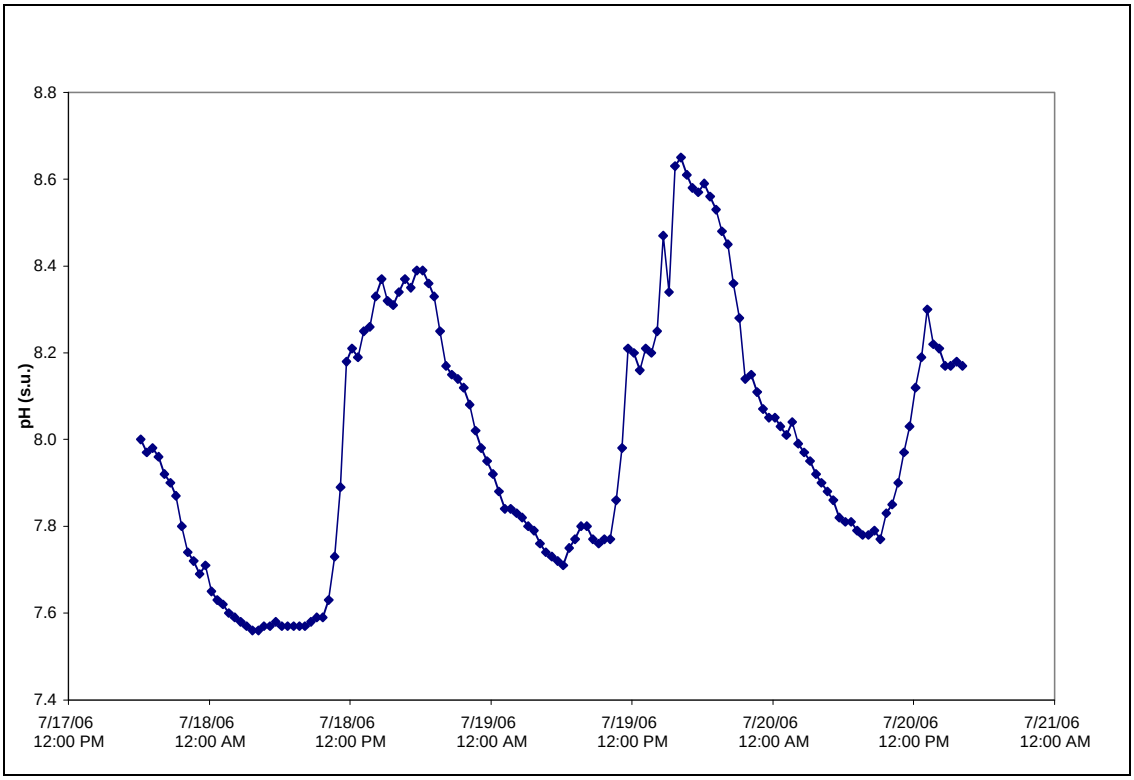

Figure A-4. Continuous pH data at Lake de Cade (120406-B).

APPENDIX B
FIELD SURVEY NOTES
(CD-ROM)

This appendix contains large files, which are provided only on a CD-ROM. To obtain a copy of this appendix, please contact EPA.

APPENDIX C:
MODEL VECTOR DIAGRAMS

Figure C-1. Vector diagram for subsegment 120401 1
Figure C-2. Vector diagram for subsegment 120404 2
Figure C-3. Combined vector diagram for subsegments 120401 and 120404 3
Figure C-4. Vector diagram for subsegment 120406 4
Figure C-5. Vector diagram for subsegment 120405 5
Figure C-6. Combined vector diagram for subsegments 120405 and 120406 6

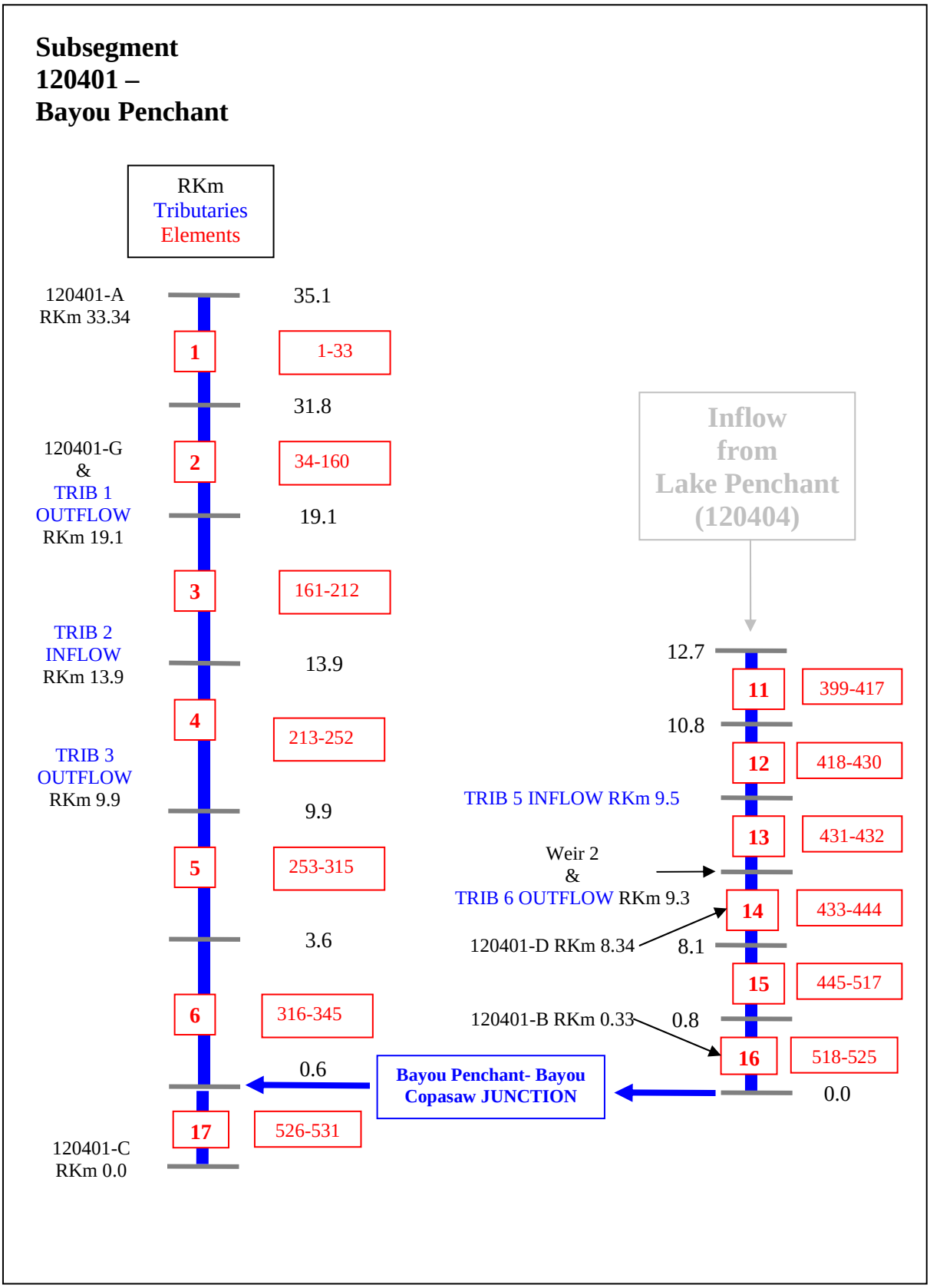

Figure C-1. Vector diagram for subsegment 120401.

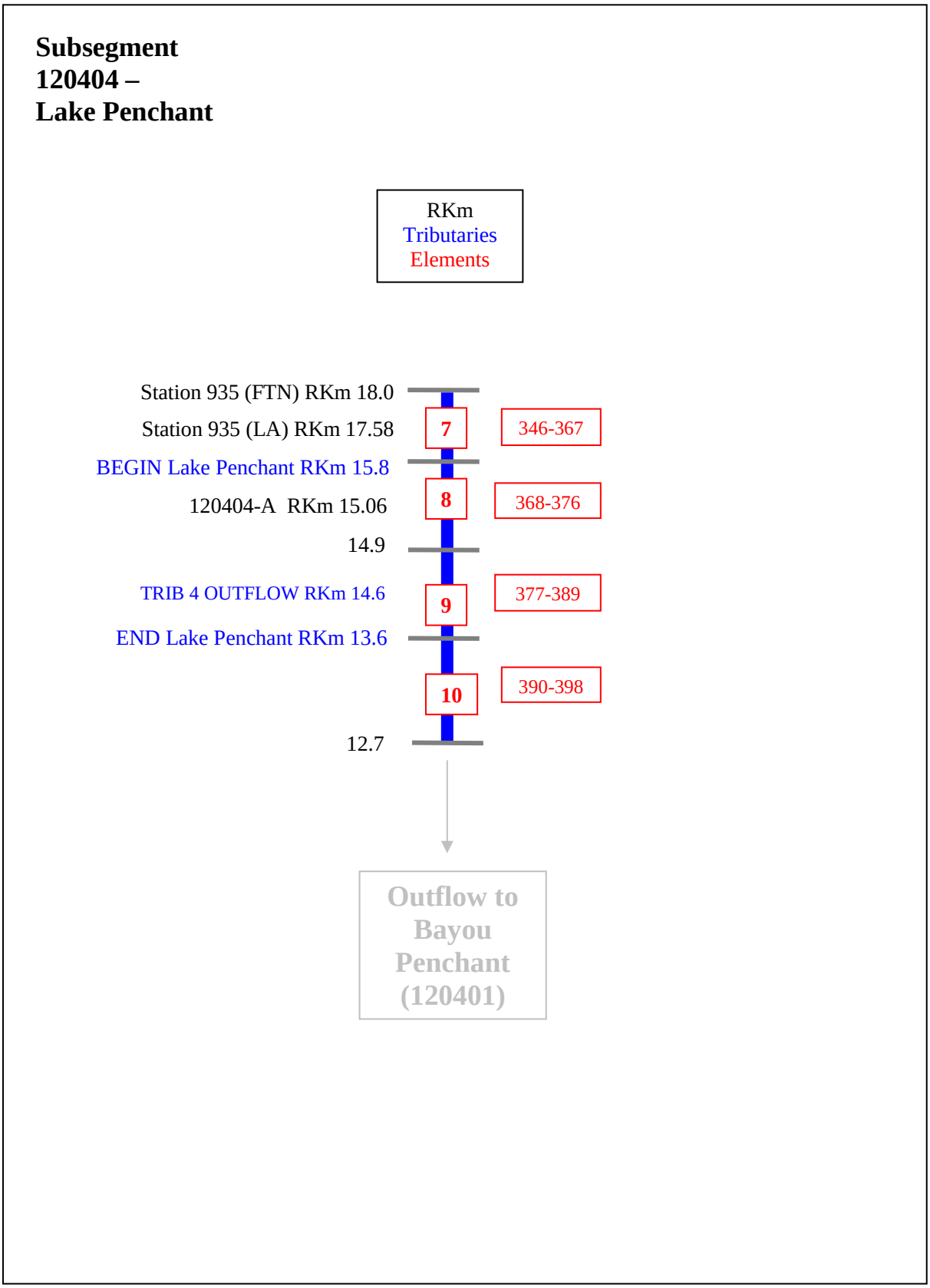

Figure C-2. Vector diagram for subsegment 120404.

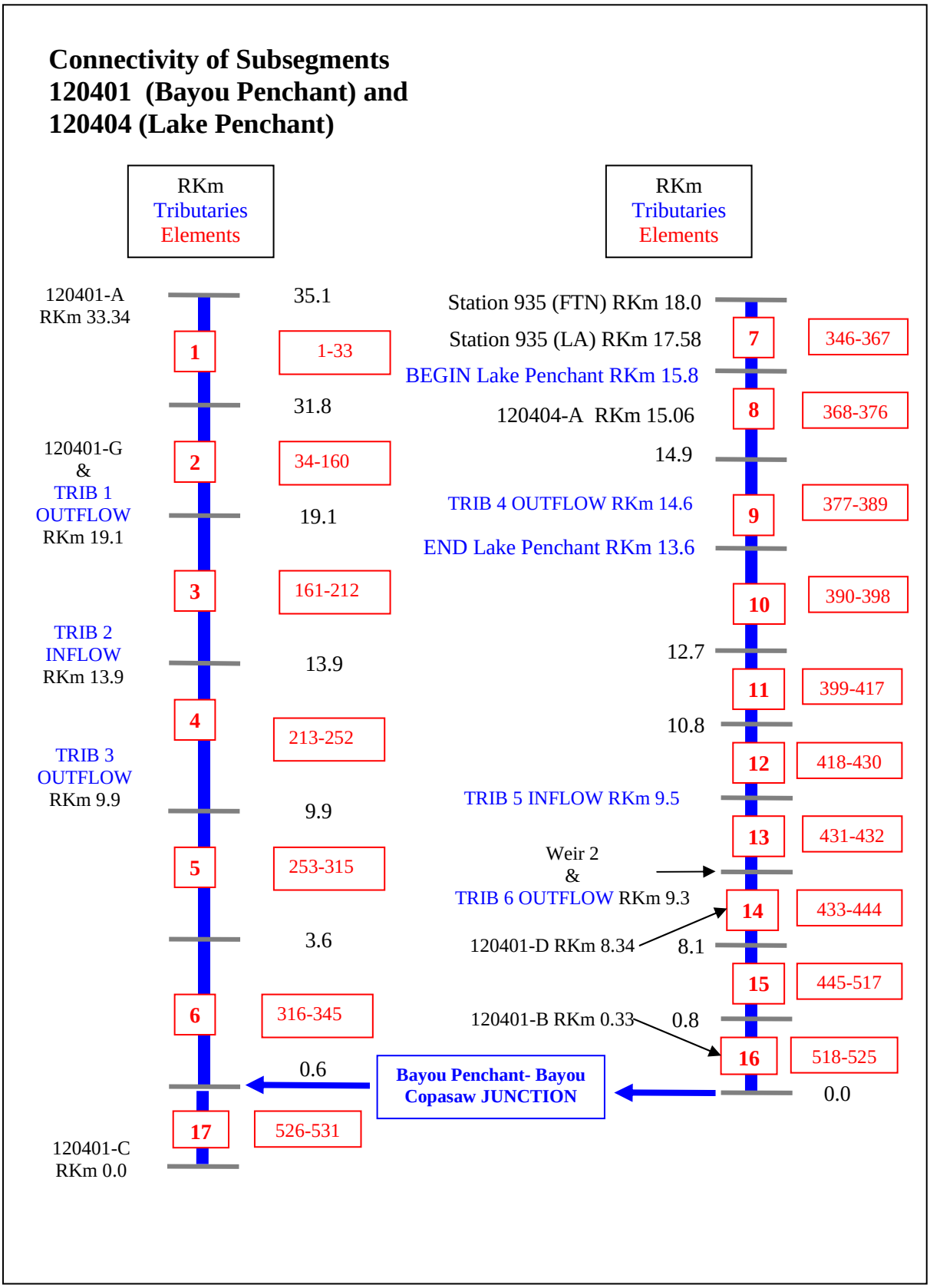

Figure C-3. Combined vector diagram for subsegments 120401 and 120404.

Subsegment 120406 (Lake de Cade)

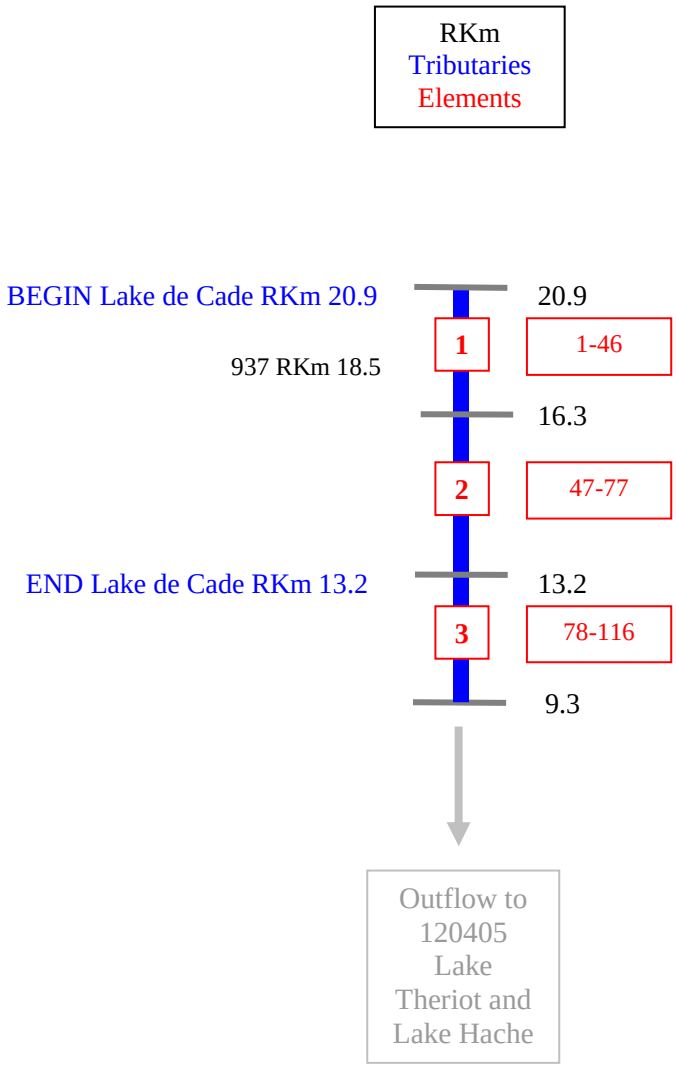

Figure C-4. Vector diagram for subsegment 120406.

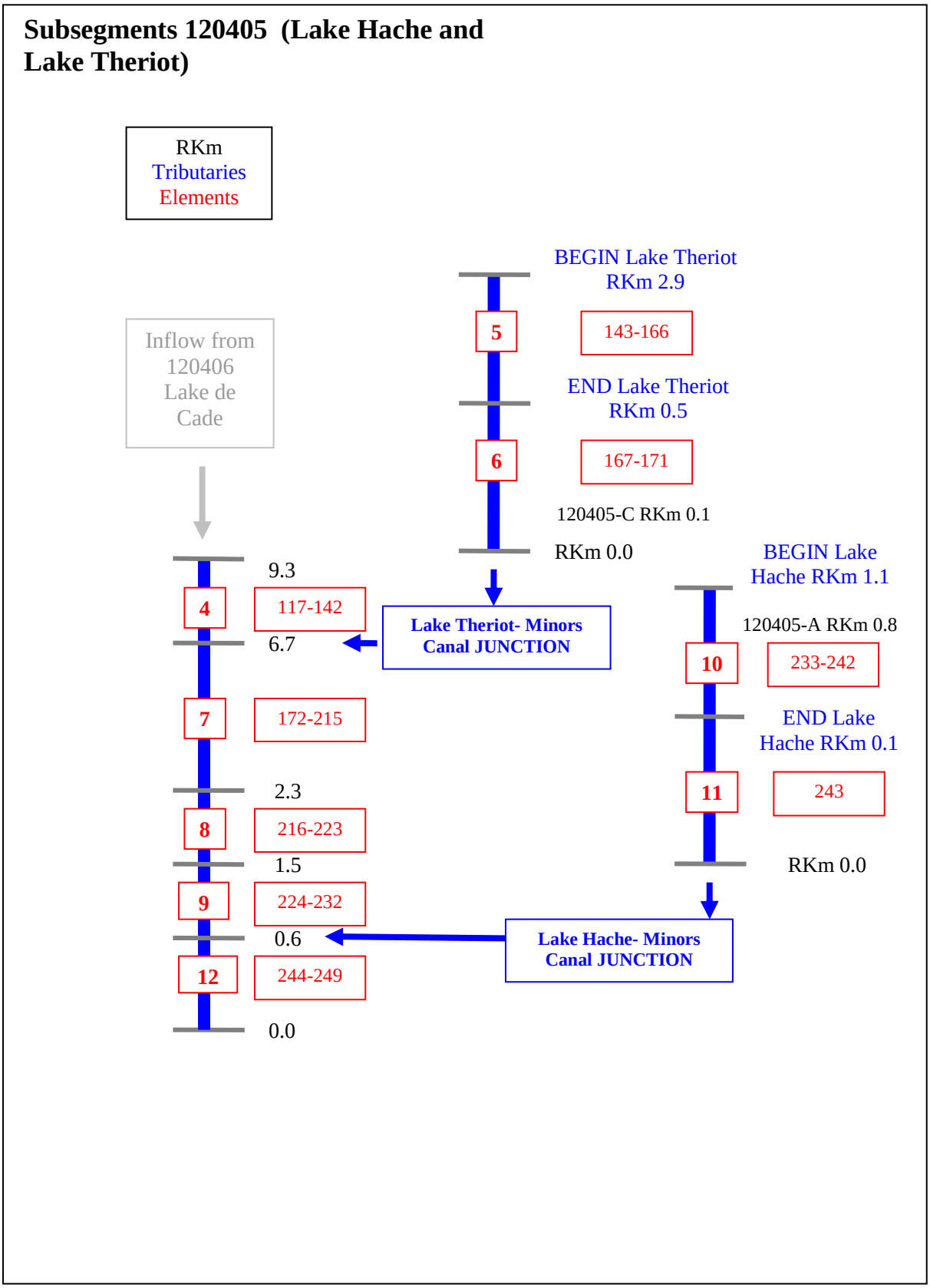

Figure C-5. Vector diagram for subsegment 120405.

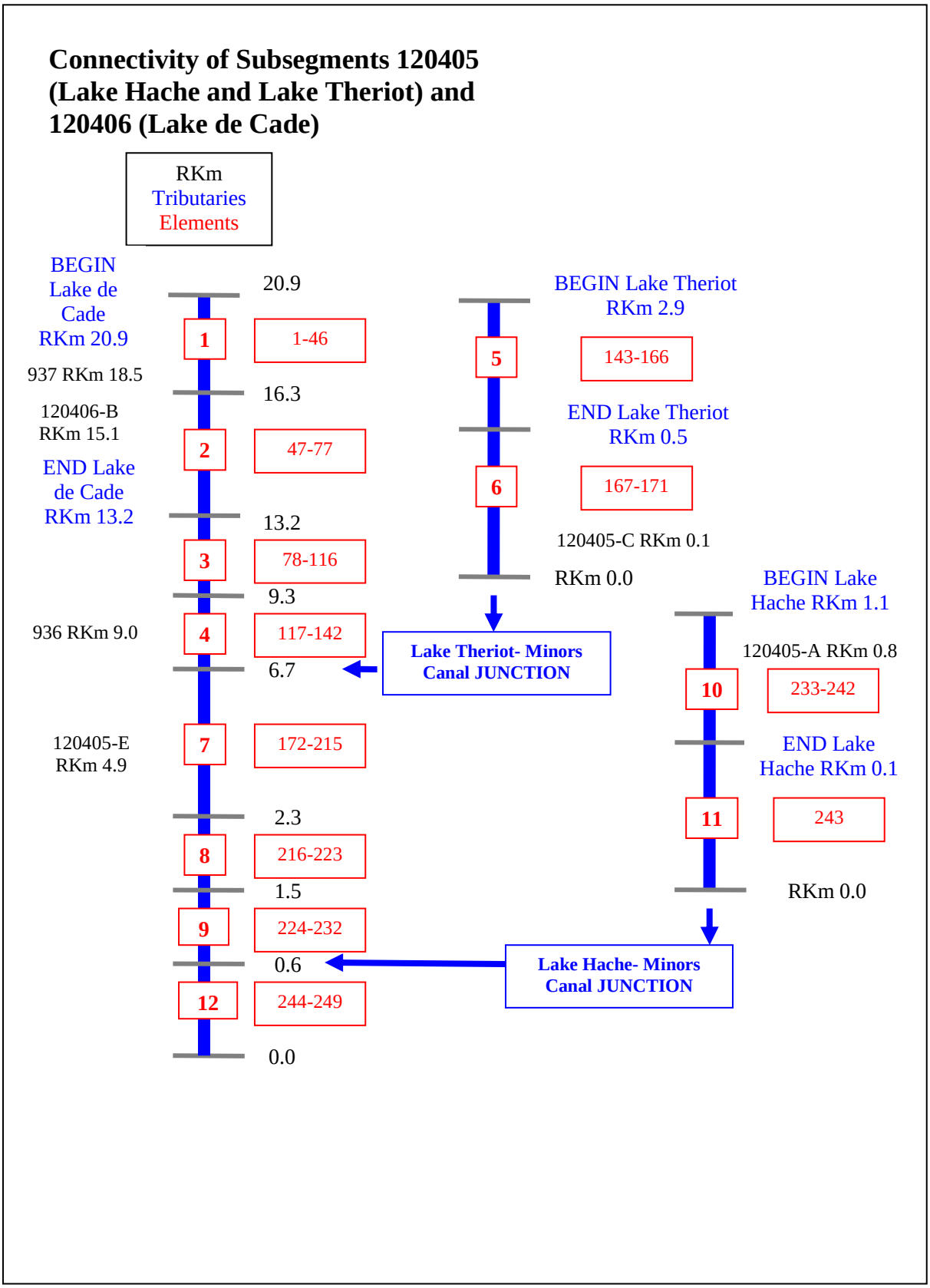

Figure C-6. Combined vector diagram for subsegments 120405 and 120406.

APPENDIX D:
MODEL OUTPUT FOR CALIBRATION

Calibration output file for subsegments 120401/120404 1
Calibration output file for subsegments 120405/120406 145

Calibration output file for subsegments 120401/120404

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality
Input file is D:\LA TMDL 2006\Additional\TO95\TT_Models\Lake_Bayou_Penchant\cal\Penchant_CAL.txt
Output produced at 11:59 on 02/25/2008
$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$
CARD TYPE      CONTROL TITLES
TITLE01        LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
TITLE02        Calibration Simulation for Lake Penchant and Bayou Penchant mode
CNTROL03   NO   SEQU                    <Warning: legacy control - line ignored>
CNTROL04  YES   METR
CNTROL05  YES   OXYG                     <Warning: legacy control - line ignored>
ENDATA01
$$$ DATA TYPE 2 (MODEL OPTIONS) $$$
CARD TYPE      MODEL OPTION
MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03   NO   CONSERVATIVE MATERIAL #1                    UNITS =
MODOPT04   NO   CONSERVATIVE MATERIAL #2                    UNITS =
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND #1
MODOPT07   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND #2
MODOPT08  YES   NITROGEN SERIES
MODOPT09   NO   PHOSPHORUS
MODOPT10   NO   CHLOROPHYLL A
MODOPT11   NO   MACROPHYTES
MODOPT12   NO   COLIFORMS
MODOPT13   NO   NONCONSERVATIVE MATERIAL                    UNITS =
ENDATA02
$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$
CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE
PROGRAM        HYDRAULIC CALCULATION METHOD      =        2.00000 (widths and depths)
PROGRAM        DISPERSION EQUATION               =        1.00000 (values entered as a constant)
PROGRAM        TIDE HEIGHT                       =        0.60000 meters
PROGRAM        HEADWATER EXCHANGE RATIO          =        1.00000
ENDATA03
$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$
 CARD TYPE     RATE CODE     THETA VALUE
ENDATA04
$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$
CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE
ENDATA05
$$$ DATA TYPE 6 (ALGAE CONSTANTS) $$$
CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE
ENDATA06
$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$
CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE
ENDATA07
```

```
$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                        BEGIN      END   ELEM   REACH    ELEMS  BEGIN   END
CARD TYPE  REACH  ID  NAME                          REACH     REACH  LENGTH  LENGTH   PER RCH  ELEM  ELEM
                                          km        km     km     km            NUM   NUM
REACH ID    1   1  Bayou Chene to Blackbird Bayou     35.10  TO  31.80  0.1000    3.30     33      1    33
REACH ID    2   2  Blackbird Bayou to 120401-G       31.80  TO  19.10  0.1000   12.70    127     34   160
REACH ID    3   3  120401-G to Turtle Bayou          19.10  TO  13.90  0.1000    5.20     52    161   212
REACH ID    4   4  Turtle Bayou to Carenero Bayou    13.90  TO   9.90  0.1000    4.00     40    213   252
REACH ID    5   5  Carenero Bayou to un canal 2       9.90  TO   3.60  0.1000    6.30     63    253   315
REACH ID    6   6  un canal 2 to Corasaw conf.        3.60  TO   0.60  0.1000    3.00     30    316   345
REACH ID    7   7  935 to Peoples Canal and L.P      18.00  TO  15.80  0.1000    2.20     22    346   367
REACH ID    8   8  Peoples C. and L.P to N. Outlet   15.80  TO  14.90  0.1000    0.90      9    368   376
REACH ID    9   9  N. Outlet to L. Penchant W. Sid   14.90  TO  13.60  0.1000    1.30     13    377   389
REACH ID   10  10  L. P. W. Side to L. P W. Outlet   13.60  TO  12.70  0.1000    0.90      9    390   398
REACH ID   11  11  L. P W. Outlet to Superior Cana    12.70  TO  10.80  0.1000    1.90     19    399   417
REACH ID   12  12  Superior Canal to un canal 1       10.80  TO   9.50  0.1000    1.30     13    418   430
REACH ID   13  13  unnamed canal to Brady C/Weir 2     9.50  TO   9.30  0.1000    0.20      2    431   432
REACH ID   14  14  Brady C/Weir 2 to Km#              9.30  TO   8.10  0.1000    1.20     12    433   444
REACH ID   15  15  Km# to Pipeline Canal              8.10  TO   0.80  0.1000    7.30     73    445   517
REACH ID   16  16  Pipeline Canal to Corasaw conf.    0.80  TO   0.00  0.1000    0.80      8    518   525
REACH ID   17  17  Corasaw conf. to 120401-C          0.60  TO   0.00  0.1000    0.60      6    526   531
ENDATA08
$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID     WIDTH     WIDTH     WIDTH     DEPTH     DEPTH     DEPTH     SLOPE   MANNINGS
                         "A"       "B"       "C"       "D"       "E"       "F"               "N"
HYDR-1      1   1      0.000     0.000   135.000     0.000     0.000     1.000   0.00010   1.460
HYDR-1      2   2      0.000     0.000   110.000     0.000     0.000     1.000   0.00010   1.460
HYDR-1      3   3      0.000     0.000    90.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      4   4      0.000     0.000   155.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      5   5      0.000     0.000    90.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      6   6      0.000     0.000   110.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      7   7      0.000     0.000    35.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      8   8      0.000     0.000  2131.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1      9   9      0.000     0.000   983.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1     10  10      0.000     0.000   148.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1     11  11      0.000     0.000    61.000     0.000     0.000     1.768   0.00010   1.460
HYDR-1     12  12      0.000     0.000    72.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     13  13      0.000     0.000    72.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     14  14      0.000     0.000    70.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     15  15      0.000     0.000    65.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     16  16      0.000     0.000    65.000     0.000     0.000     1.402   0.00010   1.460
HYDR-1     17  17      0.000     0.000    88.000     0.000     0.000     1.402   0.00010   1.460
ENDATA09
$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                        RANGE       "A"           "B"           "C"           "D"
HYDR        1   1     0.00       0.600         0.000         0.000         0.000
HYDR        2   2     0.00       0.500         0.000         0.000         0.000
HYDR        3   3     0.00       0.400         0.000         0.000         0.000
HYDR        4   4     0.00       0.300         0.000         0.000         0.000
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HYDR      5  5    0.00     0.300     0.000     0.000     0.000
HYDR      6  6    0.00     0.400     0.000     0.000     0.000
HYDR      7  7    0.00     0.000     0.000     0.000     0.000
HYDR      8  8    0.00     0.000     0.000     0.000     0.000
HYDR      9  9    0.00     0.000     0.000     0.000     0.000
HYDR     10  10    0.00     0.000     0.000     0.000     0.000
HYDR     11  11    0.00     0.300     0.000     0.000     0.000
HYDR     12  12    0.00     0.200     0.000     0.000     0.000
HYDR     13  13    0.00     0.100     0.000     0.000     0.000
HYDR     14  14    0.00     0.100     0.000     0.000     0.000
HYDR     15  15    0.00     0.100     0.000     0.000     0.000
HYDR     16  16    0.00     0.100     0.000     0.000     0.000
HYDR     17  17    0.00     0.500     0.000     0.000     0.000
ENDATA10
$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$
CARD TYPE    REACH  ID     TEMP    SALIN     DO     NH3    NO3+2    PHOS    CHL A    MACRO
INITIAL       1  1    31.20    0.00    5.00    0.10    0.33    0.00   70.00    0.00
INITIAL       2  2    31.80    0.00    5.00    0.10    0.33    0.00   75.00    0.00
INITIAL       3  3    31.80    0.00    5.00    0.10    0.33    0.00   80.00    0.00
INITIAL       4  4    31.80    0.00    5.00    0.10    0.33    0.00   60.00    0.00
INITIAL       5  5    31.80    0.00    5.00    0.10    0.33    0.00   40.00    0.00
INITIAL       6  6    31.80    0.00    5.00    0.10    0.33    0.00   24.00    0.00
INITIAL       7  7    31.50    0.00    5.00    0.12    0.05    0.00   10.00    0.00
INITIAL       8  8    31.00    0.00    5.00    0.12    0.05    0.00   10.00    0.00
INITIAL       9  9    31.00    0.00    5.00    0.12    0.05    0.00   10.00    0.00
INITIAL      10  10    31.50    0.00    5.00    0.12    0.05    0.00   25.00    0.00
INITIAL      11  11    31.50    0.00    5.00    0.12    0.05    0.00   38.00    0.00
INITIAL      12  12    31.50    0.00    5.00    0.10    0.05    0.00   38.00    0.00
INITIAL      13  13    31.50    0.00    5.00    0.10    0.05    0.00   38.00    0.00
INITIAL      14  14    31.50    0.00    5.00    0.10    0.05    0.00   38.00    0.00
INITIAL      15  15    32.30    0.00    5.00    0.10    0.05    0.00   38.00    0.00
INITIAL      16  16    32.30    0.00    5.00    0.10    0.05    0.00   30.00    0.00
INITIAL      17  17    32.30    0.00    5.00    0.10    0.05    0.00   24.00    0.00
ENDATA11
$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                          BOD    ANAER                    BOD2    ANAER
CARD    RCH  RCH  K2                K2      K2      K2   BKGRND     BOD     BOD    CONV    BOD2    BOD2    BOD2    CONV    BOD2
TYPE    NUM   ID  OPT              "A"     "B"     "C"     SOD   DECAY    SETT  TO SOD   DECAY   DECAY    SETT  TO SOD   DECAY
                                          g/m²/d  per day     m/d            per day  per day     m/d            per day
COEFF-1   1   1   3 OCONNER-DOBB  0.000   0.000   0.000   2.500   0.120   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   2   2   3 OCONNER-DOBB  0.000   0.000   0.000   2.700   0.120   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   3   3   3 OCONNER-DOBB  0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   4   4   3 OCONNER-DOBB  0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   5   5   3 OCONNER-DOBB  0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   6   6   3 OCONNER-DOBB  0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   7   7   3 OCONNER-DOBB  0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   8   8  20 K2=a/D        0.930   0.000   0.000   0.600   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   9   9  20 K2=a/D        0.930   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  10  10   3 OCONNER-DOBB  0.000   0.000   0.000   2.800   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  11  11   3 OCONNER-DOBB  0.000   0.000   0.000   2.800   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
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COEFF-1  12  12  3 OCONNER-DOBB   0.000   0.000   0.000   2.800   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  13  13  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  14  14  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  15  15  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  16  16  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  17  17  3 OCONNER-DOBB   0.000   0.000   0.000   1.500   0.050   0.000   0.000   0.000   0.000   0.000   0.000   0.000
ENDATA12
$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$
CARD TYPE    REACH  ID     ORG-N    ORG-N  ORGN CONV     NH3     NH3    PHOS    DENIT
                      DECA    SETT  TO NH3 SRCE    DECA    SRCE    SRCE    RATE
COEFF-2        1   1    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        2   2    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        3   3    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        4   4    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        5   5    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        6   6    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2        7   7    0.020   0.000   0.000   0.100   0.000   0.000   0.000
COEFF-2        8   8    0.020   0.000   0.000   0.100   0.000   0.000   0.000
COEFF-2        9   9    0.020   0.000   0.000   0.100   0.000   0.000   0.000
COEFF-2       10  10    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       11  11    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       12  12    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       13  13    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       14  14    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       15  15    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       16  16    0.020   0.000   0.000   0.150   0.000   0.000   0.000
COEFF-2       17  17    0.020   0.000   0.000   0.150   0.000   0.000   0.000
ENDATA13
$$$ DATA TYPE 14 (ALGAE AND MACROPHYTE COEFFICIENTS) $$$
CARD TYPE    REACH  ID    SECCHI   ALGAE:    ALGAE   ALG CONV    ALGAE    ALGAE    MACRO    MACRO
                      DEPTH    CHL A    SETT    TO SOD     GROW     RESP     GROW     RESP  SHADING
ENDATA14
$$$ DATA TYPE 15 (COLIFORM AND NONCONSERVATIVE COEFFICIENTS) $$$
CARD TYPE    REACH  ID   COLIFORM      NCM      NCM   NCM CONV
                     DIE-OFF    DECAY     SETT    TO SOD
ENDATA15
$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$
CARD TYPE    REACH  ID     OUTFLOW     INFLOW     TEMP    SALIN     CM-I    CM-II  IN/DIST  OUT/DIST
INCR-1         1   1    -0.70000    0.50000   31.13    0.00    0.00    0.00  0.15152  -0.21212
INCR-1         2   2    -5.20000    5.00000   31.13    0.00    0.00    0.00  0.39370  -0.40945
INCR-1         3   3    -0.70000    0.50000   31.13    0.00    0.00    0.00  0.09615  -0.13462
INCR-1         4   4    -0.70000    0.50000   31.13    0.00    0.00    0.00  0.12500  -0.17500
INCR-1         5   5    -0.70000    0.50000   31.13    0.00    0.00    0.00  0.07937  -0.11111
INCR-1         6   6    -0.70000    0.50000   31.13    0.00    0.00    0.00  0.16667  -0.23333
INCR-1         7   7     0.00000    0.00000    0.00    0.00    0.00    0.00  0.00000   0.00000
INCR-1         8   8     0.00000    1.53760   31.13    0.00    0.00    0.00  1.70844   0.00000
INCR-1         9   9    -1.60000    3.58780   31.13    0.00    0.00    0.00  2.75985  -1.23077
INCR-1        10  10    -0.50000    0.50000   31.13    0.00    0.00    0.00  0.55556  -0.55556
INCR-1        11  11    -0.50000    0.50000   31.13    0.00    0.00    0.00  0.26316  -0.26316
INCR-1        12  12    -0.50000    0.50000   31.13    0.00    0.00    0.00  0.38462  -0.38462
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INCR-1      13  13    0.00000   0.00000    0.00    0.00    0.00    0.00  0.00000  0.00000
INCR-1      14  14    0.00000   0.02550   31.13    0.00    0.00    0.00  0.02125  0.00000
INCR-1      15  15    0.00000   0.20390   31.13    0.00    0.00    0.00  0.02793  0.00000
INCR-1      16  16    0.00000   0.02550   31.13    0.00    0.00    0.00  0.03187  0.00000
INCR-1      17  17    0.00000   0.00000    0.00    0.00    0.00    0.00  0.00000  0.00000
ENDATA16
$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$
CARD TYPE    REACH  ID      DO     BOD    ORG-N    NH3-N    NO3-N    BOD#2
INCR-2       1   1    5.00   50.00   1.30    0.10    0.04    0.00
INCR-2       2   2    5.00   50.00   3.10    0.10    0.04    0.00
INCR-2       3   3    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2       4   4    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2       5   5    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2       6   6    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2       7   7    0.00    0.00   0.00    0.00    0.00    0.00
INCR-2       8   8    5.00    9.30   1.30    0.10    0.04    0.00
INCR-2       9   9    5.00    9.30   2.80    0.10    0.04    0.00
INCR-2      10  10    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2      11  11    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2      12  12    5.00   10.00   1.30    0.10    0.04    0.00
INCR-2      13  13    0.00    0.00   0.00    0.00    0.00    0.00
INCR-2      14  14    5.00   10.00   0.85    0.10    0.04    0.00
INCR-2      15  15    5.00   10.00   0.85    0.10    0.04    0.00
INCR-2      16  16    5.00   10.00   0.85    0.10    0.04    0.00
INCR-2      17  17    0.00    0.00   0.00    0.00    0.00    0.00
ENDATA17
$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
 CARD TYPE    REACH  ID     PHOS    CHL A    COLI     NCM
ENDATA18
$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$
CARD TYPE    REACH  ID    BOD#1    ORG-N    COLI     NCM      DO    BOD#2
NONPOINT      1   1    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      2   2    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      3   3    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      4   4    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      5   5    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      6   6    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      7   7    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      8   8    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      9   9    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     10  10    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     11  11    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     12  12    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     13  13    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     14  14    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     15  15    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     16  16    0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT     17  17    0.00    0.00    0.00    0.00    0.00    0.00
ENDATA19
$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$
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CARD TYPE    ELEMENT   NAME                UNIT    FLOW    FLOW   TEMP   SALIN    CM-I    CM-II
                                          m³/s    cfs   deg C    ppt
HDWTR-1        1    Bayou Chene          0  30.66731 1082.885  31.50    0.00    0.000    0.000  0.00
HDWTR-1      346    Station 935          0   0.11327   4.000  31.20    0.00    0.000    0.000  0.00
ENDATA20
$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$
CARD TYPE    ELEMENT   NAME                     DO    BOD#1    ORG-N    NH3-N    NO3-N    BOD#2
                                            mg/L     mg/L     mg/L     mg/L     mg/L     mg/L
HDWTR-2        1    Bayou Chene             6.20    16.08     1.60     0.10     0.56     0.00
HDWTR-2      346    Station 935             4.70     3.42     0.90     0.10     0.04     0.00
ENDATA21
$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
CARD TYPE    ELEMENT   NAME                    PHOS    CHL A     COLI      NCM
                                            mg/L     mg/L     mg/L     mg/L
ENDATA22
$$$ DATA TYPE 23 (JUNCTION DATA) $$$
CARD TYPE   JUNCTION   UPSTRM    RIVER    NAME
         ELEMENT  ELEMENT    KILOM
JUNCTION       526    345      0.60   Penchant-Copasaw 1
ENDATA23
$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$
CARD TYPE  ELEMENT    RKILO  NAME                  FLOW      FLOW     FLOW    TEMP    SALIN     CM-I    CM-II
                                            m³/s       cfs     MGD   deg C     ppt
WSTLD-1     161     19.10  TRIB 1 OUTFLOW      -7.30570 -257.96964 -166.755  931.00     8.00     0.000     0.000
WSTLD-1     213     13.90  TRIB 2 INFLOW        2.26536   79.99153   51.708   31.80     0.00     0.000     0.000
WSTLD-1     253      9.90  TRIB 3 OUTFLOW     -19.34050 -682.92725 -441.453  131.00     8.00     0.000     0.000
WSTLD-1     380     14.60  TRIB 4 OUTFLOW       0.00000    0.00000    0.000   31.80     0.00     0.000     0.000
WSTLD-1     431      9.50  TRIB 5 INFLOW        3.02992  106.98871   69.159   31.50     0.00     0.000     0.000
WSTLD-1     433      9.30  TRIB 6 OUTFLOW      -3.19980 -112.98729  -73.036  231.00     0.00     0.000     0.000
ENDATA24
$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                 % BOD                    %
CARD TYPE    ELEMENT   NAME                     DO      BOD     RMVL     ORG-N    NH3-N   NITRIF    NO3-N    BOD#2
                                            mg/L     mg/L             mg/L     mg/L             mg/L     mg/L

WSTLD-2       161    TRIB 1 OUTFLOW           3.70     3.40     0.00     1.00     0.05     0.00     0.00     0.00
WSTLD-2       213    TRIB 2 INFLOW            3.70     3.40     0.00     2.00     0.05     0.00     0.00     0.00
WSTLD-2       253    TRIB 3 OUTFLOW           3.70     3.40     0.00     1.00     0.05     0.00     0.00     0.00
WSTLD-2       380    TRIB 4 OUTFLOW           3.70     3.40     0.00     1.00     0.05     0.00     0.00     0.00
WSTLD-2       431    TRIB 5 INFLOW            3.70    10.00     0.00     4.00     0.05     0.00     0.00     0.00
WSTLD-2       433    TRIB 6 OUTFLOW           3.70     3.40     0.00     1.00     0.05     0.00     0.00     0.00
ENDATA25
$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
CARD TYPE    ELEMENT   NAME                    PHOS    CHL A     COLI      NCM
                                            mg/L     mg/L     mg/L     mg/L
ENDATA26
$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$
CARD TYPE    CONSTITUENT                 CONCENTRATION
LOWER BC     TEMPERATURE                      32.200     deg C
LOWER BC     SALINITY                          0.000     ppt
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LOWER BC    CONSERVATIVE MATERIAL I              0.000
LOWER BC    CONSERVATIVE MATERIAL II             0.000
LOWER BC    DISSOLVED OXYGEN                   6.100    mg/L
LOWER BC    BIOCHEMICAL OXYGEN DEMAND            2.200    mg/L
LOWER BC    ORGANIC NITROGEN                   0.000    mg/L
LOWER BC    AMMONIA NITROGEN                   0.100    mg/L
LOWER BC    NITRATE + NITRITE                  0.050    mg/L
LOWER BC    PHOSPHORUS                         0.000    mg/L
LOWER BC    CHLOROPHYLL A                     24.000    µg/L
LOWER BC    COLIFORM                        0.000    #/100 mL
LOWER BC    NONCONSERVATIVE MATERIAL             0.000
ENDATA27
$$$ DATA TYPE 28 (DAM DATA) $$$
CARD TYPE    ELEMENT   NAME              EQN     "A"     "B"     "H"
ENDATA28
$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$
CARD TYPE      PARAMETER     COL 1    COL 2    COL 3    COL 4    COL 5    COL 6    COL 7    COL 8
ENDATA29
$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$
NUMBER OF PLOTS =  2
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  2  3  4  5  6 17
NUMBER OF REACHES IN PLOT 1 =  10
PLOT RCH  7  8  9 10 11 12 13 14 15 16
ENDATA30
$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 BayouPenchant.OVL            :Bayou Penchant 120401
OVERLAY 2 LakePenchant.OVL             :Lake Penchant 120404
ENDATA31
   .....NO ERRORS DETECTED IN INPUT DATA
   .....HYDRAULIC CALCULATIONS COMPLETED
   .....TRIDIAGONAL MATRIX TERMS INITIALIZED
   .....OXYGEN DEPENDENT RATES CONVERGENT IN   6 ITERATIONS
   .....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING:  NEGATIVE CONCENTRATIONS SET TO ZERO FOR Nitrate+Nitrite Nitrogen
   .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
   .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12
INTERMEDIATE REPORT
 Dissolved Oxygen                          LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
   mg/L                                 Calibration Simulation for Lake Penchant and Bayou Penchant mode
 ID  RCH  ELEM      +0      +1      +2      +3      +4      +5      +6      +7      +8      +9
  1   1   1      6.20    6.20    6.20    6.20    6.20    6.20    6.20    6.20    6.20    6.20
  1   1  11      6.20    6.21    6.21    6.21    6.21    6.21    6.21    6.21    6.21    6.21
  1   1  21      6.21    6.21    6.21    6.21    6.21    6.21    6.22    6.22    6.22    6.22
  1   1  31      6.22    6.22    6.22
  2   2  34      6.22    6.22    6.22    6.22    6.22    6.21    6.21    6.21    6.21    6.21
  2   2  44      6.21    6.21    6.21    6.21    6.21    6.20    6.20    6.20    6.20    6.20
  2   2  54      6.20    6.20    6.20    6.20    6.20    6.19    6.19    6.19    6.19    6.19
  2   2  64      6.19    6.19    6.19    6.19    6.19    6.18    6.18    6.18    6.18    6.18
  2   2  74      6.18    6.18    6.18    6.18    6.18    6.18    6.17    6.17    6.17    6.17
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2	2	84	6.17	6.17	6.17	6.17	6.17	6.17	6.16	6.16	6.16	6.16
2	2	94	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.15	6.15	6.15
2	2	104	6.15	6.15	6.15	6.15	6.15	6.15	6.15	6.15	6.14	6.14
2	2	114	6.14	6.14	6.14	6.14	6.14	6.14	6.14	6.14	6.14	6.14
2	2	124	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13
2	2	134	6.13	6.13	6.12	6.12	6.12	6.12	6.12	6.12	6.12	6.12
2	2	144	6.12	6.12	6.12	6.12	6.11	6.11	6.11	6.11	6.11	6.11
2	2	154	6.11	6.11	6.11	6.11	6.11	6.11	6.11			
3	3	161	6.13	6.16	6.20	6.23	6.26	6.29	6.32	6.35	6.38	6.41
3	3	171	6.44	6.46	6.49	6.52	6.55	6.57	6.60	6.62	6.65	6.67
3	3	181	6.70	6.72	6.74	6.77	6.79	6.81	6.83	6.85	6.87	6.90
3	3	191	6.92	6.94	6.95	6.97	6.99	7.01	7.03	7.05	7.06	7.08
3	3	201	7.10	7.11	7.13	7.14	7.16	7.17	7.19	7.20	7.21	7.23
3	3	211	7.24	7.24								
4	4	213	6.96	6.98	7.00	7.02	7.04	7.06	7.08	7.10	7.12	7.14
4	4	223	7.15	7.17	7.18	7.20	7.21	7.23	7.24	7.25	7.26	7.27
4	4	233	7.28	7.29	7.30	7.31	7.32	7.32	7.33	7.34	7.34	7.35
4	4	243	7.35	7.36	7.36	7.36	7.36	7.37	7.37	7.37	7.37	7.37
5	5	253	7.37	7.36	7.36	7.36	7.35	7.35	7.34	7.34	7.33	7.33
5	5	263	7.32	7.31	7.30	7.30	7.29	7.28	7.27	7.26	7.25	7.24
5	5	273	7.23	7.21	7.20	7.19	7.18	7.16	7.15	7.14	7.12	7.11
5	5	283	7.09	7.08	7.06	7.05	7.03	7.01	7.00	6.98	6.96	6.94
5	5	293	6.93	6.91	6.89	6.87	6.85	6.83	6.81	6.79	6.77	6.75
5	5	303	6.73	6.71	6.69	6.67	6.65	6.63	6.60	6.58	6.56	6.54
5	5	313	6.51	6.49	6.47							
6	6	316	6.44	6.41	6.38	6.35	6.33	6.30	6.27	6.25	6.23	6.20
6	6	326	6.18	6.16	6.14	6.12	6.10	6.08	6.06	6.04	6.02	6.01
6	6	336	5.99	5.97	5.96	5.94	5.93	5.91	5.90	5.89	5.88	5.89
17	17	526	6.07	6.06	6.06	6.06	6.05	6.05				
7	7	346	4.71	4.73	4.76	4.78	4.81	4.84	4.87	4.89	4.92	4.95
7	7	356	4.98	5.00	5.03	5.05	5.08	5.10	5.12	5.15	5.17	5.19
7	7	366	5.21	5.23								
8	8	368	7.00	7.03	7.03	7.03	7.02	7.02	7.02	7.02	7.02	
9	9	377	6.28	5.95	5.81	5.77	5.78	5.83	5.89	5.96	6.04	6.13
9	9	387	6.22	6.32	6.41							
10	10	390	6.29	6.19	6.10	6.02	5.96	5.91	5.88	5.85	5.84	
11	11	399	5.83	5.82	5.82	5.81	5.81	5.80	5.80	5.79	5.79	5.78
11	11	409	5.77	5.77	5.77	5.76	5.76	5.75	5.75	5.74	5.74	
12	12	418	5.71	5.68	5.66	5.63	5.61	5.59	5.57	5.54	5.52	5.50
12	12	428	5.48	5.46	5.41							
13	13	431	4.69	4.73								
14	14	433	4.76	4.82	4.87	4.93	4.98	5.03	5.09	5.14	5.18	5.23
14	14	443	5.28	5.32								
15	15	445	5.36	5.40	5.44	5.48	5.51	5.55	5.58	5.62	5.65	5.68
15	15	455	5.71	5.74	5.77	5.80	5.82	5.85	5.87	5.90	5.92	5.95
15	15	465	5.97	5.99	6.01	6.03	6.05	6.07	6.09	6.11	6.12	6.14
15	15	475	6.16	6.17	6.19	6.20	6.21	6.23	6.24	6.25	6.26	6.28
15	15	485	6.29	6.30	6.31	6.32	6.32	6.33	6.34	6.35	6.36	6.36
15	15	495	6.37	6.38	6.38	6.39	6.39	6.40	6.40	6.40	6.41	6.41
15	15	505	6.42	6.42	6.42	6.42	6.42	6.43	6.43	6.43	6.43	6.43

15	15	515	6.43	6.43	6.43							
16	16	518	6.43	6.42	6.42	6.41	6.40	6.39	6.38	6.35		

INTERMEDIATE REPORT

Effective BOD LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	11	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	21	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	31	16.08	16.08	16.08							
2	2	34	16.11	16.14	16.17	16.20	16.23	16.26	16.29	16.32	16.35	16.38
2	2	44	16.41	16.44	16.47	16.50	16.52	16.55	16.58	16.61	16.64	16.67
2	2	54	16.70	16.73	16.75	16.78	16.81	16.84	16.87	16.90	16.92	16.95
2	2	64	16.98	17.01	17.04	17.06	17.09	17.12	17.15	17.18	17.20	17.23
2	2	74	17.26	17.29	17.31	17.34	17.37	17.40	17.42	17.45	17.48	17.50
2	2	84	17.53	17.56	17.58	17.61	17.64	17.66	17.69	17.72	17.74	17.77
2	2	94	17.80	17.82	17.85	17.88	17.90	17.93	17.95	17.98	18.01	18.03
2	2	104	18.06	18.08	18.11	18.13	18.16	18.18	18.21	18.24	18.26	18.29
2	2	114	18.31	18.34	18.36	18.39	18.41	18.44	18.46	18.49	18.51	18.54
2	2	124	18.56	18.59	18.61	18.64	18.66	18.68	18.71	18.73	18.76	18.78
2	2	134	18.81	18.83	18.85	18.88	18.90	18.93	18.95	18.97	19.00	19.02
2	2	144	19.05	19.07	19.09	19.12	19.14	19.16	19.19	19.21	19.23	19.26
2	2	154	19.28	19.30	19.33	19.35	19.37	19.40	19.42			
3	3	161	19.40	19.39	19.37	19.35	19.34	19.32	19.30	19.28	19.27	19.25
3	3	171	19.23	19.21	19.20	19.18	19.16	19.15	19.13	19.11	19.10	19.08
3	3	181	19.06	19.04	19.03	19.01	18.99	18.98	18.96	18.94	18.93	18.91
3	3	191	18.89	18.88	18.86	18.84	18.82	18.81	18.79	18.77	18.76	18.74
3	3	201	18.72	18.71	18.69	18.67	18.66	18.64	18.62	18.61	18.59	18.58
3	3	211	18.56	18.50								
4	4	213	17.15	17.13	17.10	17.08	17.06	17.04	17.02	16.99	16.97	16.95
4	4	223	16.93	16.91	16.88	16.86	16.84	16.82	16.80	16.78	16.75	16.73
4	4	233	16.71	16.69	16.67	16.65	16.62	16.60	16.58	16.56	16.54	16.52
4	4	243	16.50	16.47	16.45	16.43	16.41	16.39	16.37	16.35	16.33	16.31
5	5	253	16.29	16.24	16.18	16.13	16.07	16.01	15.96	15.91	15.85	15.80
5	5	263	15.74	15.69	15.64	15.58	15.53	15.48	15.42	15.37	15.32	15.27
5	5	273	15.21	15.16	15.11	15.06	15.01	14.96	14.91	14.85	14.80	14.75
5	5	283	14.70	14.65	14.60	14.55	14.51	14.46	14.41	14.36	14.31	14.26
5	5	293	14.21	14.17	14.12	14.07	14.02	13.97	13.93	13.88	13.83	13.79
5	5	303	13.74	13.70	13.65	13.60	13.56	13.51	13.47	13.42	13.38	13.33
5	5	313	13.29	13.24	13.20							
6	6	316	13.14	13.08	13.02	12.96	12.91	12.85	12.79	12.74	12.68	12.63
6	6	326	12.57	12.52	12.46	12.41	12.35	12.30	12.25	12.19	12.14	12.09
6	6	336	12.03	11.98	11.93	11.88	11.83	11.78	11.72	11.67	11.59	11.32
17	17	526	9.39	9.38	9.36	9.35	9.28	8.45				
7	7	346	3.25	3.08	2.92	2.78	2.64	2.50	2.38	2.26	2.14	2.03
7	7	356	1.93	1.84	1.74	1.66	1.57	1.49	1.42	1.35	1.28	1.22
7	7	366	1.16	1.10								
8	8	368	2.65	2.87	2.93	2.96	2.97	2.97	2.98	2.98	2.98	
9	9	377	3.58	4.01	4.34	4.59	4.79	4.94	5.06	5.16	5.24	5.31
9	9	387	5.36	5.41	5.45							

10	10	390	5.48	5.51	5.54	5.57	5.59	5.62	5.65	5.67	5.70	
11	11	399	5.71	5.73	5.74	5.76	5.77	5.78	5.80	5.81	5.82	5.84
11	11	409	5.85	5.86	5.88	5.89	5.90	5.91	5.93	5.94	5.95	
12	12	418	5.98	6.00	6.03	6.05	6.08	6.10	6.13	6.15	6.17	6.20
12	12	428	6.22	6.25	6.33							
13	13	431	7.95	7.94								
14	14	433	7.93	7.91	7.88	7.86	7.84	7.82	7.80	7.78	7.76	7.74
14	14	443	7.72	7.70								
15	15	445	7.68	7.66	7.64	7.62	7.61	7.59	7.57	7.55	7.53	7.52
15	15	455	7.50	7.48	7.46	7.45	7.43	7.41	7.39	7.38	7.36	7.34
15	15	465	7.33	7.31	7.29	7.27	7.26	7.24	7.22	7.21	7.19	7.18
15	15	475	7.16	7.14	7.13	7.11	7.09	7.08	7.06	7.05	7.03	7.01
15	15	485	7.00	6.98	6.97	6.95	6.94	6.92	6.91	6.89	6.88	6.86
15	15	495	6.85	6.83	6.82	6.80	6.79	6.77	6.76	6.74	6.73	6.71
15	15	505	6.70	6.68	6.67	6.66	6.64	6.63	6.61	6.60	6.59	6.57
15	15	515	6.56	6.54	6.53							
16	16	518	6.52	6.50	6.49	6.48	6.46	6.45	6.44	6.52		

INTERMEDIATE REPORT

Biochemical Oxygen Demand LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	11	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	21	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08
1	1	31	16.08	16.08	16.08							
2	2	34	16.11	16.14	16.17	16.20	16.23	16.26	16.29	16.32	16.35	16.38
2	2	44	16.41	16.44	16.47	16.50	16.52	16.55	16.58	16.61	16.64	16.67
2	2	54	16.70	16.73	16.75	16.78	16.81	16.84	16.87	16.90	16.92	16.95
2	2	64	16.98	17.01	17.04	17.06	17.09	17.12	17.15	17.18	17.20	17.23
2	2	74	17.26	17.29	17.31	17.34	17.37	17.40	17.42	17.45	17.48	17.50
2	2	84	17.53	17.56	17.58	17.61	17.64	17.66	17.69	17.72	17.74	17.77
2	2	94	17.80	17.82	17.85	17.88	17.90	17.93	17.95	17.98	18.01	18.03
2	2	104	18.06	18.08	18.11	18.13	18.16	18.18	18.21	18.24	18.26	18.29
2	2	114	18.31	18.34	18.36	18.39	18.41	18.44	18.46	18.49	18.51	18.54
2	2	124	18.56	18.59	18.61	18.64	18.66	18.68	18.71	18.73	18.76	18.78
2	2	134	18.81	18.83	18.85	18.88	18.90	18.93	18.95	18.97	19.00	19.02
2	2	144	19.05	19.07	19.09	19.12	19.14	19.16	19.19	19.21	19.23	19.26
2	2	154	19.28	19.30	19.33	19.35	19.37	19.40	19.42			
3	3	161	19.40	19.39	19.37	19.35	19.34	19.32	19.30	19.28	19.27	19.25
3	3	171	19.23	19.21	19.20	19.18	19.16	19.15	19.13	19.11	19.10	19.08
3	3	181	19.06	19.04	19.03	19.01	18.99	18.98	18.96	18.94	18.93	18.91
3	3	191	18.89	18.88	18.86	18.84	18.82	18.81	18.79	18.77	18.76	18.74
3	3	201	18.72	18.71	18.69	18.67	18.66	18.64	18.62	18.61	18.59	18.58
3	3	211	18.56	18.50								
4	4	213	17.15	17.13	17.10	17.08	17.06	17.04	17.02	16.99	16.97	16.95
4	4	223	16.93	16.91	16.88	16.86	16.84	16.82	16.80	16.78	16.75	16.73
4	4	233	16.71	16.69	16.67	16.65	16.62	16.60	16.58	16.56	16.54	16.52
4	4	243	16.50	16.47	16.45	16.43	16.41	16.39	16.37	16.35	16.33	16.31
5	5	253	16.29	16.24	16.18	16.13	16.07	16.01	15.96	15.91	15.85	15.80
5	5	263	15.74	15.69	15.64	15.58	15.53	15.48	15.42	15.37	15.32	15.27

5	5	273	15.21	15.16	15.11	15.06	15.01	14.96	14.91	14.85	14.80	14.75
5	5	283	14.70	14.65	14.60	14.55	14.51	14.46	14.41	14.36	14.31	14.26
5	5	293	14.21	14.17	14.12	14.07	14.02	13.97	13.93	13.88	13.83	13.79
5	5	303	13.74	13.70	13.65	13.60	13.56	13.51	13.47	13.42	13.38	13.33
5	5	313	13.29	13.24	13.20							
6	6	316	13.14	13.08	13.02	12.96	12.91	12.85	12.79	12.74	12.68	12.63
6	6	326	12.57	12.52	12.46	12.41	12.35	12.30	12.25	12.19	12.14	12.09
6	6	336	12.03	11.98	11.93	11.88	11.83	11.78	11.72	11.67	11.59	11.32
17	17	526	9.39	9.38	9.36	9.35	9.28	8.45				
7	7	346	3.25	3.08	2.92	2.78	2.64	2.50	2.38	2.26	2.14	2.03
7	7	356	1.93	1.84	1.74	1.66	1.57	1.49	1.42	1.35	1.28	1.22
7	7	366	1.16	1.10								
8	8	368	2.65	2.87	2.93	2.96	2.97	2.97	2.98	2.98	2.98	
9	9	377	3.58	4.01	4.34	4.59	4.79	4.94	5.06	5.16	5.24	5.31
9	9	387	5.36	5.41	5.45							
10	10	390	5.48	5.51	5.54	5.57	5.59	5.62	5.65	5.67	5.70	
11	11	399	5.71	5.73	5.74	5.76	5.77	5.78	5.80	5.81	5.82	5.84
11	11	409	5.85	5.86	5.88	5.89	5.90	5.91	5.93	5.94	5.95	
12	12	418	5.98	6.00	6.03	6.05	6.08	6.10	6.13	6.15	6.17	6.20
12	12	428	6.22	6.25	6.33							
13	13	431	7.95	7.94								
14	14	433	7.93	7.91	7.88	7.86	7.84	7.82	7.80	7.78	7.76	7.74
14	14	443	7.72	7.70								
15	15	445	7.68	7.66	7.64	7.62	7.61	7.59	7.57	7.55	7.53	7.52
15	15	455	7.50	7.48	7.46	7.45	7.43	7.41	7.39	7.38	7.36	7.34
15	15	465	7.33	7.31	7.29	7.27	7.26	7.24	7.22	7.21	7.19	7.18
15	15	475	7.16	7.14	7.13	7.11	7.09	7.08	7.06	7.05	7.03	7.01
15	15	485	7.00	6.98	6.97	6.95	6.94	6.92	6.91	6.89	6.88	6.86
15	15	495	6.85	6.83	6.82	6.80	6.79	6.77	6.76	6.74	6.73	6.71
15	15	505	6.70	6.68	6.67	6.66	6.64	6.63	6.61	6.60	6.59	6.57
15	15	515	6.56	6.54	6.53							
16	16	518	6.52	6.50	6.49	6.48	6.46	6.45	6.44	6.52		

INTERMEDIATE REPORT

Organic Nitrogen — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
1	1	11	1.60	1.60	1.60	1.60	1.59	1.59	1.59	1.59	1.59	1.59
1	1	21	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
1	1	31	1.59	1.59	1.59							
2	2	34	1.59	1.59	1.59	1.60	1.60	1.60	1.60	1.60	1.60	1.61
2	2	44	1.61	1.61	1.61	1.61	1.61	1.62	1.62	1.62	1.62	1.62
2	2	54	1.63	1.63	1.63	1.63	1.63	1.63	1.64	1.64	1.64	1.64
2	2	64	1.64	1.64	1.65	1.65	1.65	1.65	1.65	1.65	1.66	1.66
2	2	74	1.66	1.66	1.66	1.66	1.67	1.67	1.67	1.67	1.67	1.67
2	2	84	1.68	1.68	1.68	1.68	1.68	1.68	1.69	1.69	1.69	1.69
2	2	94	1.69	1.69	1.70	1.70	1.70	1.70	1.70	1.70	1.71	1.71
2	2	104	1.71	1.71	1.71	1.71	1.72	1.72	1.72	1.72	1.72	1.72
2	2	114	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.74	1.74	1.74
2	2	124	1.74	1.74	1.74	1.75	1.75	1.75	1.75	1.75	1.75	1.76

2	2	134	1.76	1.76	1.76	1.76	1.76	1.76	1.77	1.77	1.77	1.77
2	2	144	1.77	1.77	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.79
2	2	154	1.79	1.79	1.79	1.79	1.79	1.80	1.80			
3	3	161	1.80	1.80	1.80	1.79	1.79	1.79	1.79	1.79	1.79	1.79
3	3	171	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79
3	3	181	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78
3	3	191	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.77	1.77
3	3	201	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77
3	3	211	1.77	1.77								
4	4	213	1.79	1.79	1.79	1.79	1.78	1.78	1.78	1.78	1.78	1.78
4	4	223	1.78	1.78	1.78	1.78	1.78	1.78	1.77	1.77	1.77	1.77
4	4	233	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.76
4	4	243	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76
5	5	253	1.76	1.75	1.75	1.75	1.75	1.75	1.74	1.74	1.74	1.74
5	5	263	1.73	1.73	1.73	1.73	1.73	1.72	1.72	1.72	1.72	1.72
5	5	273	1.71	1.71	1.71	1.71	1.71	1.70	1.70	1.70	1.70	1.70
5	5	283	1.69	1.69	1.69	1.69	1.68	1.68	1.68	1.68	1.68	1.67
5	5	293	1.67	1.67	1.67	1.67	1.66	1.66	1.66	1.66	1.66	1.65
5	5	303	1.65	1.65	1.65	1.65	1.65	1.64	1.64	1.64	1.64	1.64
5	5	313	1.63	1.63	1.63							
6	6	316	1.63	1.62	1.62	1.62	1.62	1.61	1.61	1.61	1.60	1.60
6	6	326	1.60	1.60	1.59	1.59	1.59	1.59	1.58	1.58	1.58	1.58
6	6	336	1.57	1.57	1.57	1.56	1.56	1.56	1.56	1.56	1.56	1.60
17	17	526	1.93	1.93	1.93	1.93	1.91	1.69				
7	7	346	0.89	0.87	0.86	0.85	0.83	0.82	0.81	0.79	0.78	0.77
7	7	356	0.76	0.75	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.66
7	7	366	0.65	0.64								
8	8	368	0.75	0.77	0.78	0.79	0.79	0.79	0.79	0.79	0.79	
9	9	377	1.05	1.25	1.41	1.54	1.65	1.73	1.80	1.86	1.92	1.96
9	9	387	2.00	2.03	2.06							
10	10	390	2.04	2.03	2.01	2.00	1.98	1.97	1.96	1.94	1.93	
11	11	399	1.92	1.91	1.91	1.90	1.90	1.89	1.89	1.88	1.87	1.87
11	11	409	1.86	1.86	1.85	1.85	1.84	1.83	1.83	1.82	1.82	
12	12	418	1.81	1.80	1.80	1.79	1.79	1.78	1.77	1.77	1.76	1.75
12	12	428	1.75	1.74	1.78							
13	13	431	2.76	2.76								
14	14	433	2.76	2.76	2.75	2.75	2.75	2.74	2.74	2.74	2.73	2.73
14	14	443	2.73	2.72								
15	15	445	2.72	2.72	2.71	2.71	2.70	2.70	2.70	2.69	2.69	2.69
15	15	455	2.68	2.68	2.68	2.67	2.67	2.67	2.66	2.66	2.66	2.65
15	15	465	2.65	2.65	2.64	2.64	2.64	2.63	2.63	2.62	2.62	2.62
15	15	475	2.61	2.61	2.61	2.60	2.60	2.60	2.59	2.59	2.59	2.59
15	15	485	2.58	2.58	2.58	2.57	2.57	2.57	2.56	2.56	2.56	2.55
15	15	495	2.55	2.55	2.54	2.54	2.54	2.53	2.53	2.53	2.52	2.52
15	15	505	2.52	2.51	2.51	2.51	2.51	2.50	2.50	2.50	2.49	2.49
15	15	515	2.49	2.48	2.48							
16	16	518	2.48	2.47	2.47	2.47	2.47	2.46	2.46	2.44		

INTERMEDIATE REPORT

Ammonia Nitrogen
mg/L

LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
1	1	11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
1	1	21	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
1	1	31	0.10	0.10	0.10							
2	2	34	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	44	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	54	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	64	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	74	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	84	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	94	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	104	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	114	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	124	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	134	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	144	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
2	2	154	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
3	3	161	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
3	3	171	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
3	3	181	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
3	3	191	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	201	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	211	0.11	0.11								
4	4	213	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
4	4	223	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
4	4	233	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
4	4	243	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
5	5	253	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11
5	5	263	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	273	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	283	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	293	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	303	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
5	5	313	0.11	0.11	0.11							
6	6	316	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
6	6	326	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
6	6	336	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
17	17	526	0.12	0.12	0.12	0.12	0.12	0.12				
7	7	346	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09
7	7	356	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08
7	7	366	0.08	0.08								
8	8	368	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	
9	9	377	0.09	0.10	0.11	0.12	0.13	0.13	0.14	0.14	0.15	0.15
9	9	387	0.16	0.16	0.16							
10	10	390	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	
11	11	399	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
11	11	409	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	
12	12	418	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	12	428	0.14	0.13	0.13							

13	13	431	0.10	0.10								
14	14	433	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11
14	14	443	0.11	0.11								
15	15	445	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12
15	15	455	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
15	15	465	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
15	15	475	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
15	15	485	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14
15	15	495	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
15	15	505	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
15	15	515	0.14	0.14	0.14							
16	16	518	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14		

INTERMEDIATE REPORT

Nitrate+Nitrite Nitrogen — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.56	0.56	0.56	0.55	0.55	0.55	0.55	0.55	0.55	0.54
1	1	11	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.53
1	1	21	0.53	0.52	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.51
1	1	31	0.51	0.51	0.51							
2	2	34	0.50	0.50	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49
2	2	44	0.49	0.48	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.47
2	2	54	0.47	0.47	0.47	0.46	0.46	0.46	0.46	0.46	0.45	0.45
2	2	64	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.44	0.44
2	2	74	0.43	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42
2	2	84	0.42	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.40	0.40
2	2	94	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.39	0.39	0.38
2	2	104	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37
2	2	114	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35
2	2	124	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.33
2	2	134	0.33	0.33	0.33	0.33	0.33	0.32	0.32	0.32	0.32	0.32
2	2	144	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30
2	2	154	0.30	0.30	0.30	0.29	0.29	0.29	0.29			
3	3	161	0.29	0.29	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27
3	3	171	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.24
3	3	181	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.22	0.22	0.22
3	3	191	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20
3	3	201	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18
3	3	211	0.18	0.18								
4	4	213	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.13
4	4	223	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	0.11
4	4	233	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09
4	4	243	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07
5	5	253	0.07	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.03
5	5	263	0.03	0.02	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.00
5	5	273	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	313	0.00	0.00	0.00							

6	6	316	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	17	526	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	346	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	366	0.00	0.00								
8	8	368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	9	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	9	387	0.00	0.00	0.00							
10	10	390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	11	399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	12	428	0.00	0.00	0.00							
13	13	431	0.00	0.00								
14	14	433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	14	443	0.00	0.00								
15	15	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	515	0.00	0.00	0.00							
16	16	518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

Total Nitrogen — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

mg/L — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.26	2.26	2.25	2.25	2.25	2.25	2.25	2.24	2.24	2.24
1	1	11	2.24	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.22	2.22
1	1	21	2.22	2.22	2.22	2.21	2.21	2.21	2.21	2.21	2.20	2.20
1	1	31	2.20	2.20	2.20							
2	2	34	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
2	2	44	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
2	2	54	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.19	2.19	2.19
2	2	64	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	74	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	84	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	94	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	104	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	114	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	124	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	134	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	144	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
2	2	154	2.19	2.19	2.19	2.19	2.19	2.19	2.19			
3	3	161	2.19	2.18	2.18	2.18	2.18	2.17	2.17	2.17	2.16	2.16
3	3	171	2.16	2.15	2.15	2.15	2.15	2.14	2.14	2.14	2.14	2.13

3	3	181	2.13	2.13	2.12	2.12	2.12	2.12	2.11	2.11	2.11	2.11
3	3	191	2.10	2.10	2.10	2.09	2.09	2.09	2.09	2.08	2.08	2.08
3	3	201	2.08	2.07	2.07	2.07	2.07	2.06	2.06	2.06	2.06	2.06
3	3	211	2.05	2.05								
4	4	213	2.05	2.04	2.04	2.04	2.03	2.03	2.03	2.02	2.02	2.02
4	4	223	2.01	2.01	2.01	2.00	2.00	2.00	1.99	1.99	1.99	1.98
4	4	233	1.98	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96
4	4	243	1.95	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.93	1.93
5	5	253	1.93	1.92	1.92	1.91	1.90	1.90	1.89	1.89	1.88	1.87
5	5	263	1.87	1.86	1.86	1.85	1.84	1.84	1.83	1.83	1.82	1.82
5	5	273	1.82	1.82	1.82	1.81	1.81	1.81	1.81	1.81	1.80	1.80
5	5	283	1.80	1.80	1.80	1.79	1.79	1.79	1.79	1.79	1.78	1.78
5	5	293	1.78	1.78	1.78	1.78	1.77	1.77	1.77	1.77	1.77	1.76
5	5	303	1.76	1.76	1.76	1.76	1.75	1.75	1.75	1.75	1.75	1.74
5	5	313	1.74	1.74	1.74							
6	6	316	1.74	1.73	1.73	1.73	1.72	1.72	1.72	1.72	1.71	1.71
6	6	326	1.71	1.71	1.70	1.70	1.70	1.69	1.69	1.69	1.69	1.68
6	6	336	1.68	1.68	1.68	1.67	1.67	1.67	1.67	1.66	1.67	1.71
17	17	526	2.06	2.05	2.05	2.05	2.04	1.81				
7	7	346	1.01	0.99	0.96	0.94	0.93	0.92	0.90	0.89	0.88	0.86
7	7	356	0.85	0.84	0.82	0.81	0.80	0.79	0.77	0.76	0.75	0.74
7	7	366	0.73	0.72								
8	8	368	0.83	0.86	0.87	0.87	0.87	0.88	0.88	0.88	0.88	
9	9	377	1.15	1.36	1.52	1.66	1.77	1.86	1.94	2.01	2.06	2.11
9	9	387	2.15	2.19	2.22							
10	10	390	2.20	2.19	2.17	2.15	2.14	2.12	2.11	2.09	2.08	
11	11	399	2.07	2.06	2.06	2.05	2.04	2.04	2.03	2.03	2.02	2.01
11	11	409	2.01	2.00	1.99	1.99	1.98	1.98	1.97	1.97	1.96	
12	12	418	1.95	1.95	1.94	1.93	1.92	1.92	1.91	1.90	1.90	1.89
12	12	428	1.88	1.88	1.91							
13	13	431	2.86	2.86								
14	14	433	2.86	2.86	2.85	2.85	2.85	2.85	2.84	2.84	2.84	2.84
14	14	443	2.83	2.83								
15	15	445	2.83	2.83	2.82	2.82	2.82	2.82	2.81	2.81	2.81	2.80
15	15	455	2.80	2.80	2.80	2.79	2.79	2.79	2.78	2.78	2.78	2.78
15	15	465	2.77	2.77	2.77	2.76	2.76	2.76	2.76	2.75	2.75	2.75
15	15	475	2.74	2.74	2.74	2.74	2.73	2.73	2.73	2.72	2.72	2.72
15	15	485	2.72	2.71	2.71	2.71	2.70	2.70	2.70	2.70	2.69	2.69
15	15	495	2.69	2.68	2.68	2.68	2.68	2.67	2.67	2.67	2.66	2.66
15	15	505	2.66	2.66	2.65	2.65	2.65	2.64	2.64	2.64	2.64	2.63
15	15	515	2.63	2.63	2.62							
16	16	518	2.62	2.62	2.62	2.61	2.61	2.61	2.60	2.58		

INTERMEDIATE REPORT

Chlorophyll a — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

µg/L — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	70.15	70.30	70.45	70.61	70.76	70.91	71.06	71.21	71.36	71.52
1	1	11	71.67	71.82	71.97	72.12	72.27	72.42	72.58	72.73	72.88	73.03
1	1	21	73.18	73.33	73.48	73.64	73.79	73.94	74.09	74.24	74.39	74.55
1	1	31	74.70	74.85	75.00							

2	2	34	75.04	75.08	75.12	75.16	75.20	75.24	75.28	75.31	75.35	75.39
2	2	44	75.43	75.47	75.51	75.55	75.59	75.63	75.67	75.71	75.75	75.79
2	2	54	75.83	75.87	75.91	75.94	75.98	76.02	76.06	76.10	76.14	76.18
2	2	64	76.22	76.26	76.30	76.34	76.38	76.42	76.46	76.50	76.54	76.57
2	2	74	76.61	76.65	76.69	76.73	76.77	76.81	76.85	76.89	76.93	76.97
2	2	84	77.01	77.05	77.09	77.13	77.17	77.20	77.24	77.28	77.32	77.36
2	2	94	77.40	77.44	77.48	77.52	77.56	77.60	77.64	77.68	77.72	77.76
2	2	104	77.80	77.83	77.87	77.91	77.95	77.99	78.03	78.07	78.11	78.15
2	2	114	78.19	78.23	78.27	78.31	78.35	78.39	78.43	78.46	78.50	78.54
2	2	124	78.58	78.62	78.66	78.70	78.74	78.78	78.82	78.86	78.90	78.94
2	2	134	78.98	79.02	79.06	79.09	79.13	79.17	79.21	79.25	79.29	79.33
2	2	144	79.37	79.41	79.45	79.49	79.53	79.57	79.61	79.65	79.69	79.72
2	2	154	79.76	79.80	79.84	79.88	79.92	79.96	80.00			
3	3	161	79.62	79.23	78.85	78.46	78.08	77.69	77.31	76.92	76.54	76.15
3	3	171	75.77	75.38	75.00	74.62	74.23	73.85	73.46	73.08	72.69	72.31
3	3	181	71.92	71.54	71.15	70.77	70.38	70.00	69.62	69.23	68.85	68.46
3	3	191	68.08	67.69	67.31	66.92	66.54	66.15	65.77	65.38	65.00	64.62
3	3	201	64.23	63.85	63.46	63.08	62.69	62.31	61.92	61.54	61.15	60.77
3	3	211	60.38	60.00								
4	4	213	59.50	59.00	58.50	58.00	57.50	57.00	56.50	56.00	55.50	55.00
4	4	223	54.50	54.00	53.50	53.00	52.50	52.00	51.50	51.00	50.50	50.00
4	4	233	49.50	49.00	48.50	48.00	47.50	47.00	46.50	46.00	45.50	45.00
4	4	243	44.50	44.00	43.50	43.00	42.50	42.00	41.50	41.00	40.50	40.00
5	5	253	39.75	39.49	39.24	38.98	38.73	38.48	38.22	37.97	37.71	37.46
5	5	263	37.21	36.95	36.70	36.44	36.19	35.94	35.68	35.43	35.17	34.92
5	5	273	34.67	34.41	34.16	33.90	33.65	33.40	33.14	32.89	32.63	32.38
5	5	283	32.13	31.87	31.62	31.37	31.11	30.86	30.60	30.35	30.10	29.84
5	5	293	29.59	29.33	29.08	28.83	28.57	28.32	28.06	27.81	27.56	27.30
5	5	303	27.05	26.79	26.54	26.29	26.03	25.78	25.52	25.27	25.02	24.76
5	5	313	24.51	24.25	24.00							
6	6	316	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
6	6	326	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
6	6	336	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
17	17	526	24.00	24.00	24.00	24.00	24.00	24.00				
7	7	346	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
7	7	356	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
7	7	366	10.00	10.00								
8	8	368	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
9	9	377	11.15	12.31	13.46	14.62	15.77	16.92	18.08	19.23	20.38	21.54
9	9	387	22.69	23.85	25.00							
10	10	390	26.44	27.89	29.33	30.78	32.22	33.67	35.11	36.56	38.00	
11	11	399	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00
11	11	409	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	
12	12	418	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00
12	12	428	38.00	38.00	38.00							
13	13	431	38.00	38.00								
14	14	433	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00
14	14	443	38.00	38.00								
15	15	445	37.89	37.78	37.67	37.56	37.45	37.34	37.23	37.12	37.01	36.90
15	15	455	36.79	36.68	36.58	36.47	36.36	36.25	36.14	36.03	35.92	35.81

15	15	465	35.70	35.59	35.48	35.37	35.26	35.15	35.04	34.93	34.82	34.71
15	15	475	34.60	34.49	34.38	34.27	34.16	34.05	33.95	33.84	33.73	33.62
15	15	485	33.51	33.40	33.29	33.18	33.07	32.96	32.85	32.74	32.63	32.52
15	15	495	32.41	32.30	32.19	32.08	31.97	31.86	31.75	31.64	31.53	31.42
15	15	505	31.32	31.21	31.10	30.99	30.88	30.77	30.66	30.55	30.44	30.33
15	15	515	30.22	30.11	30.00							
16	16	518	29.25	28.50	27.75	27.00	26.25	25.50	24.75	24.00		

INTERMEDIATE REPORT

Temperature LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

deg C Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	31.22	31.24	31.25	31.27	31.29	31.31	31.33	31.35	31.36	31.38
1	1	11	31.40	31.42	31.44	31.45	31.47	31.49	31.51	31.53	31.55	31.56
1	1	21	31.58	31.60	31.62	31.64	31.65	31.67	31.69	31.71	31.73	31.75
1	1	31	31.76	31.78	31.80							
2	2	34	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	44	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	54	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	64	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	74	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	84	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	94	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	104	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	114	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	124	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	134	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	144	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
2	2	154	31.80	31.80	31.80	31.80	31.80	31.80	31.80			
3	3	161	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	171	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	181	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	191	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	201	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
3	3	211	31.80	31.80								
4	4	213	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
4	4	223	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
4	4	233	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
4	4	243	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	253	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	263	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	273	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	283	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	293	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	303	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80	31.80
5	5	313	31.80	31.80	31.80							
6	6	316	31.82	31.83	31.85	31.87	31.88	31.90	31.92	31.93	31.95	31.97
6	6	326	31.98	32.00	32.02	32.03	32.05	32.07	32.08	32.10	32.12	32.13
6	6	336	32.15	32.17	32.18	32.20	32.22	32.23	32.25	32.27	32.28	32.30
17	17	526	32.28	32.27	32.25	32.23	32.22	32.20				
7	7	346	31.48	31.45	31.43	31.41	31.39	31.36	31.34	31.32	31.30	31.27

7	7	356	31.25	31.23	31.20	31.18	31.16	31.14	31.11	31.09	31.07	31.05
7	7	366	31.02	31.00								
8	8	368	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	
9	9	377	31.04	31.08	31.12	31.15	31.19	31.23	31.27	31.31	31.35	31.38
9	9	387	31.42	31.46	31.50							
10	10	390	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	
11	11	399	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
11	11	409	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	
12	12	418	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50	31.50
12	12	428	31.50	31.50	31.50							
13	13	431	31.50	31.50								
14	14	433	31.57	31.63	31.70	31.77	31.83	31.90	31.97	32.03	32.10	32.17
14	14	443	32.23	32.30								
15	15	445	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	455	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	465	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	475	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	485	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	495	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	505	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
15	15	515	32.30	32.30	32.30							
16	16	518	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30		

INTERMEDIATE REPORT

Salinity — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

ppt — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00							
2	2	34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	154	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
3	3	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	211	0.00	0.00								
4	4	213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4	4	223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	273	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	313	0.00	0.00	0.00							
6	6	316	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	17	526	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	366	0.00	0.00								
8	8	368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	9	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	9	387	0.00	0.00	0.00							
10	10	390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	11	399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	12	428	0.00	0.00	0.00							
13	13	431	0.00	0.00								
14	14	433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	14	443	0.00	0.00								
15	15	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	515	0.00	0.00	0.00							
16	16	518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

River Distance LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

km Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	35.	35.	35.	35.	35.	35.	34.	34.	34.	34.
1	1	11	34.	34.	34.	34.	34.	34.	33.	33.	33.	33.
1	1	21	33.	33.	33.	33.	33.	33.	32.	32.	32.	32.
1	1	31	32.	32.	32.							
2	2	34	32.	32.	31.	31.	31.	31.	31.	31.	31.	31.
2	2	44	31.	31.	30.	30.	30.	30.	30.	30.	30.	30.
2	2	54	30.	30.	29.	29.	29.	29.	29.	29.	29.	29.
2	2	64	29.	29.	28.	28.	28.	28.	28.	28.	28.	28.
2	2	74	28.	28.	27.	27.	27.	27.	27.	27.	27.	27.

2	2	84	27.	27.	26.	26.	26.	26.	26.	26.	26.	26.
2	2	94	26.	26.	25.	25.	25.	25.	25.	25.	25.	25.
2	2	104	25.	25.	24.	24.	24.	24.	24.	24.	24.	24.
2	2	114	24.	24.	23.	23.	23.	23.	23.	23.	23.	23.
2	2	124	23.	23.	22.	22.	22.	22.	22.	22.	22.	22.
2	2	134	22.	22.	21.	21.	21.	21.	21.	21.	21.	21.
2	2	144	21.	21.	20.	20.	20.	20.	20.	20.	20.	20.
2	2	154	20.	20.	19.	19.	19.	19.	19.			
3	3	161	19.	19.	19.	19.	19.	18.	18.	18.	18.	18.
3	3	171	18.	18.	18.	18.	18.	17.	17.	17.	17.	17.
3	3	181	17.	17.	17.	17.	17.	16.	16.	16.	16.	16.
3	3	191	16.	16.	16.	16.	16.	15.	15.	15.	15.	15.
3	3	201	15.	15.	15.	15.	15.	14.	14.	14.	14.	14.
3	3	211	14.	14.								
4	4	213	14.	14.	14.	13.	13.	13.	13.	13.	13.	13.
4	4	223	13.	13.	13.	12.	12.	12.	12.	12.	12.	12.
4	4	233	12.	12.	12.	11.	11.	11.	11.	11.	11.	11.
4	4	243	11.	11.	11.	10.	10.	10.	10.	10.	10.	10.
5	5	253	10.	10.	10.	9.	9.	9.	9.	9.	9.	9.
5	5	263	9.	9.	9.	8.	8.	8.	8.	8.	8.	8.
5	5	273	8.	8.	8.	7.	7.	7.	7.	7.	7.	7.
5	5	283	7.	7.	7.	6.	6.	6.	6.	6.	6.	6.
5	5	293	6.	6.	6.	5.	5.	5.	5.	5.	5.	5.
5	5	303	5.	5.	5.	4.	4.	4.	4.	4.	4.	4.
5	5	313	4.	4.	4.							
6	6	316	4.	3.	3.	3.	3.	3.	3.	3.	3.	3.
6	6	326	3.	2.	2.	2.	2.	2.	2.	2.	2.	2.
6	6	336	2.	1.	1.	1.	1.	1.	1.	1.	1.	1.
17	17	526	0.	0.	0.	0.	0.	0.				
7	7	346	18.	18.	18.	18.	17.	17.	17.	17.	17.	17.
7	7	356	17.	17.	17.	17.	16.	16.	16.	16.	16.	16.
7	7	366	16.	16.								
8	8	368	16.	16.	15.	15.	15.	15.	15.	15.	15.	
9	9	377	15.	15.	15.	14.	14.	14.	14.	14.	14.	14.
9	9	387	14.	14.	14.							
10	10	390	14.	13.	13.	13.	13.	13.	13.	13.	13.	
11	11	399	13.	12.	12.	12.	12.	12.	12.	12.	12.	12.
11	11	409	12.	11.	11.	11.	11.	11.	11.	11.	11.	
12	12	418	11.	11.	10.	10.	10.	10.	10.	10.	10.	10.
12	12	428	10.	10.	9.							
13	13	431	9.	9.								
14	14	433	9.	9.	9.	9.	9.	9.	9.	8.	8.	8.
14	14	443	8.	8.								
15	15	445	8.	8.	8.	8.	8.	8.	7.	7.	7.	7.
15	15	455	7.	7.	7.	7.	7.	7.	6.	6.	6.	6.
15	15	465	6.	6.	6.	6.	6.	6.	5.	5.	5.	5.
15	15	475	5.	5.	5.	5.	5.	5.	4.	4.	4.	4.
15	15	485	4.	4.	4.	4.	4.	4.	3.	3.	3.	3.
15	15	495	3.	3.	3.	3.	3.	3.	2.	2.	2.	2.
15	15	505	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.

15 15 515 1. 1. 1.
16 16 518 1. 1. 0. 0. 0. 0. 0. 0.

INTERMEDIATE REPORT

Flow LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
m^3/s Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	30.7	30.7	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
1	1	11	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.5
1	1	21	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
1	1	31	30.5	30.5	30.5							
2	2	34	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
2	2	44	30.5	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2	2	54	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2	2	64	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2	2	74	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2	2	84	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2	2	94	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2	2	104	30.4	30.4	30.4	30.4	30.3	30.3	30.3	30.3	30.3	30.3
2	2	114	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
2	2	124	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
2	2	134	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
2	2	144	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
2	2	154	30.3	30.3	30.3	30.3	30.3	30.3	30.3			
3	3	161	23.0	23.0	23.0	22.9	22.9	22.9	22.9	22.9	22.9	22.9
3	3	171	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
3	3	181	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.8	22.8
3	3	191	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
3	3	201	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
3	3	211	22.8	22.8								
4	4	213	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
4	4	223	25.0	25.0	25.0	25.0	25.0	24.9	24.9	24.9	24.9	24.9
4	4	233	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
4	4	243	24.9	24.9	24.9	24.9	24.9	24.8	24.8	24.8	24.8	24.8
5	5	253	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
5	5	263	5.5	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
5	5	273	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
5	5	283	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
5	5	293	5.4	5.4	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
5	5	303	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
5	5	313	5.3	5.3	5.3							
6	6	316	5.3	5.3	5.3	5.3	5.3	5.2	5.2	5.2	5.2	5.2
6	6	326	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
6	6	336	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
17	17	526	8.8	8.8	8.8	8.8	8.8	8.8				
7	7	346	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7	7	356	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7	7	366	0.1	0.1								
8	8	368	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.5	1.7	
9	9	377	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.0	3.2
9	9	387	3.3	3.5	3.6							

10	10	390	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
11	11	399	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
11	11	409	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
12	12	418	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
12	12	428	3.6	3.6	3.6							
13	13	431	6.7	6.7								
14	14	433	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
14	14	443	3.5	3.5								
15	15	445	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
15	15	455	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.6
15	15	465	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
15	15	475	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
15	15	485	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
15	15	495	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.7
15	15	505	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
15	15	515	3.7	3.7	3.7							
16	16	518	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7		

INTERMEDIATE REPORT

Dispersion LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m^2/s Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
1	1	11	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
1	1	21	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
1	1	31	0.6	0.6	0.6							
2	2	34	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	44	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	54	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	64	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	74	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	84	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	94	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	104	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	114	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	124	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	134	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	144	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
2	2	154	0.5	0.5	0.5	0.5	0.5	0.5	0.5			
3	3	161	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
3	3	171	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
3	3	181	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
3	3	191	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
3	3	201	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
3	3	211	0.4	0.4								
4	4	213	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
4	4	223	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
4	4	233	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
4	4	243	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
5	5	253	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
5	5	263	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	

5	5	273	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	283	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	293	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	303	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5	5	313	0.3	0.3	0.3							
6	6	316	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
6	6	326	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
6	6	336	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
17	17	526	0.5	0.5	0.5	0.5	0.5	0.5				
7	7	346	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	356	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	366	0.0	0.0								
8	8	368	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	9	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	9	387	0.0	0.0	0.0							
10	10	390	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	11	399	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
11	11	409	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
12	12	418	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12	12	428	0.2	0.2	0.2							
13	13	431	0.1	0.1								
14	14	433	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14	14	443	0.1	0.1								
15	15	445	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	455	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	475	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	485	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	495	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	505	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15	15	515	0.1	0.1	0.1							
16	16	518	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		

INTERMEDIATE REPORT

Advective Velocity LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m/s Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
1	1	11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
1	1	21	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
1	1	31	0.2	0.2	0.2							
2	2	34	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	44	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	54	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	64	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	74	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	84	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	94	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	104	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	114	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	124	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

2	2	134	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	144	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2	2	154	0.3	0.3	0.3	0.3	0.3	0.3	0.3			
3	3	161	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	171	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	181	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	191	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	201	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	3	211	0.1	0.1								
4	4	213	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4	4	223	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4	4	233	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4	4	243	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5	5	253	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	263	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	273	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	283	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	293	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	303	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	313	0.0	0.0	0.0							
6	6	316	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	326	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6	336	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	17	526	0.1	0.1	0.1	0.1	0.1	0.1				
7	7	346	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	356	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7	366	0.0	0.0								
8	8	368	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	9	377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	9	387	0.0	0.0	0.0							
10	10	390	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	11	399	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	11	409	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	12	418	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	12	428	0.0	0.0	0.0							
13	13	431	0.1	0.1								
14	14	433	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	14	443	0.0	0.0								
15	15	445	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	455	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	465	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	475	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	485	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	495	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	505	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15	515	0.0	0.0	0.0							
16	16	518	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

INTERMEDIATE REPORT

Depth LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1	1	11	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1	1	21	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1	1	31	1.0	1.0	1.0							
2	2	34	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	44	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	54	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	64	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	74	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	84	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	94	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	104	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	114	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	124	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	134	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	144	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	2	154	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
3	3	161	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	171	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	181	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	191	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	201	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
3	3	211	1.8	1.8								
4	4	213	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
4	4	223	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
4	4	233	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
4	4	243	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	253	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	263	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	273	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	283	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	293	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	303	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5	5	313	1.8	1.8	1.8							
6	6	316	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
6	6	326	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
6	6	336	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
17	17	526	1.4	1.4	1.4	1.4	1.4	1.4				
7	7	346	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
7	7	356	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
7	7	366	1.8	1.8								
8	8	368	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
9	9	377	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
9	9	387	1.8	1.8	1.8							
10	10	390	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
11	11	399	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
11	11	409	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
12	12	418	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
12	12	428	1.4	1.4	1.4							

13	13	431	1.4	1.4								
14	14	433	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
14	14	443	1.4	1.4								
15	15	445	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	455	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	465	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	475	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	485	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	495	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	505	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
15	15	515	1.4	1.4	1.4							
16	16	518	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4		

INTERMEDIATE REPORT

Width LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	11	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	21	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	31	135.0	135.0	135.0							
2	2	34	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	44	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	54	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	64	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	74	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	84	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	94	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	104	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	114	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	124	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	134	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	144	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	154	110.0	110.0	110.0	110.0	110.0	110.0	110.0			
3	3	161	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	171	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	181	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	191	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	201	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3	3	211	90.0	90.0								
4	4	213	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
4	4	223	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
4	4	233	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
4	4	243	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
5	5	253	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	263	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	273	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	283	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	293	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	303	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
5	5	313	90.0	90.0	90.0							

6	6	316	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
6	6	326	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
6	6	336	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
17	17	526	88.0	88.0	88.0	88.0	88.0	88.0				
7	7	346	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
7	7	356	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
7	7	366	35.0	35.0								
8	8	368	2131.0	2131.0	2131.0	2131.0	2131.0	2131.0	2131.0	2131.0	2131.0	
9	9	377	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0	983.0
9	9	387	983.0	983.0	983.0							
10	10	390	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	
11	11	399	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
11	11	409	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	
12	12	418	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
12	12	428	72.0	72.0	72.0							
13	13	431	72.0	72.0								
14	14	433	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
14	14	443	70.0	70.0								
15	15	445	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	455	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	465	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	475	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	485	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	495	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	505	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
15	15	515	65.0	65.0	65.0							
16	16	518	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0		

INTERMEDIATE REPORT

Cross-Sectional Area LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

m² Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	11	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	21	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
1	1	31	135.0	135.0	135.0							
2	2	34	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	44	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	54	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	64	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	74	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	84	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	94	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	104	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	114	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	124	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	134	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	144	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
2	2	154	110.0	110.0	110.0	110.0	110.0	110.0	110.0			
3	3	161	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
3	3	171	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1

3	3	181	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
3	3	191	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
3	3	201	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
3	3	211	159.1	159.1								
4	4	213	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
4	4	223	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
4	4	233	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
4	4	243	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
5	5	253	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	263	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	273	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	283	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	293	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	303	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
5	5	313	159.1	159.1	159.1							
6	6	316	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5
6	6	326	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5
6	6	336	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5
17	17	526	123.4	123.4	123.4	123.4	123.4	123.4				
7	7	346	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
7	7	356	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
7	7	366	61.9	61.9								
8	8	368	3767.6	3767.6	3767.6	3767.6	3767.6	3767.6	3767.6	3767.6	3767.6	
9	9	377	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9
9	9	387	1737.9	1737.9	1737.9							
10	10	390	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	
11	11	399	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8
11	11	409	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	
12	12	418	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9
12	12	428	100.9	100.9	100.9							
13	13	431	100.9	100.9								
14	14	433	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
14	14	443	98.1	98.1								
15	15	445	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	455	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	465	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	475	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	485	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	495	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	505	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
15	15	515	91.1	91.1	91.1							
16	16	518	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1		

INTERMEDIATE REPORT

Reaeration Rate per day — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.302	2.302	2.303	2.303	2.304	2.304	2.305	2.305	2.306	2.306
1	1	11	2.307	2.307	2.307	2.308	2.308	2.309	2.309	2.310	2.310	2.311
1	1	21	2.311	2.312	2.312	2.313	2.313	2.314	2.314	2.315	2.315	2.316
1	1	31	2.316	2.317	2.317							

2	2	34	2.567	2.567	2.567	2.567	2.567	2.567	2.567	2.566	2.566	2.566
2	2	44	2.566	2.566	2.566	2.566	2.566	2.566	2.566	2.566	2.566	2.566
2	2	54	2.566	2.566	2.565	2.565	2.565	2.565	2.565	2.565	2.565	2.565
2	2	64	2.565	2.565	2.565	2.565	2.565	2.565	2.565	2.564	2.564	2.564
2	2	74	2.564	2.564	2.564	2.564	2.564	2.564	2.564	2.564	2.564	2.564
2	2	84	2.564	2.564	2.563	2.563	2.563	2.563	2.563	2.563	2.563	2.563
2	2	94	2.563	2.563	2.563	2.563	2.563	2.563	2.563	2.562	2.562	2.562
2	2	104	2.562	2.562	2.562	2.562	2.562	2.562	2.562	2.562	2.562	2.562
2	2	114	2.562	2.562	2.561	2.561	2.561	2.561	2.561	2.561	2.561	2.561
2	2	124	2.561	2.561	2.561	2.561	2.561	2.561	2.561	2.560	2.560	2.560
2	2	134	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560	2.560
2	2	144	2.560	2.560	2.559	2.559	2.559	2.559	2.559	2.559	2.559	2.559
2	2	154	2.559	2.559	2.559	2.559	2.559	2.559	2.559			
3	3	161	0.788	0.788	0.788	0.788	0.788	0.788	0.788	0.788	0.788	0.788
3	3	171	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787	0.787
3	3	181	0.787	0.787	0.787	0.787	0.787	0.786	0.786	0.786	0.786	0.786
3	3	191	0.786	0.786	0.786	0.786	0.786	0.786	0.786	0.786	0.786	0.786
3	3	201	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785
3	3	211	0.785	0.785								
4	4	213	0.627	0.627	0.627	0.627	0.627	0.627	0.627	0.627	0.626	0.626
4	4	223	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626	0.626
4	4	233	0.626	0.626	0.626	0.626	0.625	0.625	0.625	0.625	0.625	0.625
4	4	243	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.624
5	5	253	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	263	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	273	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	283	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	293	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	303	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491
5	5	313	0.491	0.491	0.491							
6	6	316	0.491	0.491	0.492	0.492	0.492	0.492	0.492	0.492	0.492	0.493
6	6	326	0.493	0.493	0.493	0.493	0.493	0.493	0.494	0.494	0.494	0.494
6	6	336	0.494	0.494	0.494	0.494	0.495	0.495	0.495	0.495	0.495	0.495
17	17	526	0.792	0.791	0.791	0.791	0.791	0.790				
7	7	346	0.488	0.488	0.488	0.488	0.488	0.488	0.487	0.487	0.487	0.487
7	7	356	0.487	0.486	0.486	0.486	0.486	0.486	0.485	0.485	0.485	0.485
7	7	366	0.485	0.485								
8	8	368	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	
9	9	377	0.644	0.645	0.645	0.645	0.646	0.646	0.647	0.647	0.648	0.648
9	9	387	0.648	0.649	0.649							
10	10	390	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	
11	11	399	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489
11	11	409	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	0.489	
12	12	418	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616	0.616
12	12	428	0.616	0.616	0.616							
13	13	431	0.751	0.751								
14	14	433	0.617	0.618	0.618	0.619	0.620	0.620	0.621	0.622	0.622	0.623
14	14	443	0.624	0.625								
15	15	445	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
15	15	455	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625

15	15	465	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
15	15	475	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
15	15	485	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
15	15	495	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
15	15	505	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
15	15	515	0.625	0.625	0.625							
16	16	518	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625		

INTERMEDIATE REPORT

BOD Decay Rate — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

per day — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
1	1	11	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
1	1	21	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21
1	1	31	0.21	0.21	0.21							
2	2	34	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	44	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	54	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	64	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	74	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	84	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	94	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	104	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	114	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	124	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	134	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	144	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	2	154	0.21	0.21	0.21	0.21	0.21	0.21	0.21			
3	3	161	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	171	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	181	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	191	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	201	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3	3	211	0.09	0.09								
4	4	213	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
4	4	223	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
4	4	233	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
4	4	243	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	253	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	263	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	273	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	283	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	293	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	303	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
5	5	313	0.09	0.09	0.09							
6	6	316	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
6	6	326	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
6	6	336	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
17	17	526	0.09	0.09	0.09	0.09	0.09	0.09				
7	7	346	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

7	7	356	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
7	7	366	0.08	0.08								
8	8	368	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
9	9	377	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
9	9	387	0.08	0.08	0.08							
10	10	390	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
11	11	399	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
11	11	409	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
12	12	418	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
12	12	428	0.08	0.08	0.08							
13	13	431	0.08	0.08								
14	14	433	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
14	14	443	0.09	0.09								
15	15	445	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	455	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	465	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	475	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	485	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	495	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	505	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
15	15	515	0.09	0.09	0.09							
16	16	518	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		

INTERMEDIATE REPORT

BOD Settling Rate per day — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments — Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00							
2	2	34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	154	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
3	3	161	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	211	0.00	0.00								
4	4	213	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4	4	223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	243	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	253	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	273	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	293	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	303	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	313	0.00	0.00	0.00							
6	6	316	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	6	336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	17	526	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	356	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	366	0.00	0.00								
8	8	368	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	9	377	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	9	387	0.00	0.00	0.00							
10	10	390	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	11	399	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	418	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	12	428	0.00	0.00	0.00							
13	13	431	0.00	0.00								
14	14	433	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	14	443	0.00	0.00								
15	15	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	15	515	0.00	0.00	0.00							
16	16	518	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

INTERMEDIATE REPORT

Ammonia Decay Rate per day — LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
1	1	11	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
1	1	21	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.37
1	1	31	0.37	0.37	0.37							
2	2	34	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	44	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	54	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	64	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	74	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37

2	2	84	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	94	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	104	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	114	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	124	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	134	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	144	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
2	2	154	0.37	0.37	0.37	0.37	0.37	0.37	0.37			
3	3	161	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
3	3	171	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
3	3	181	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
3	3	191	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
3	3	201	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
3	3	211	0.38	0.38								
4	4	213	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38
4	4	223	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
4	4	233	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
4	4	243	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
5	5	253	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
5	5	263	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
5	5	273	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
5	5	283	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
5	5	293	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
5	5	303	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
5	5	313	0.37	0.37	0.37							
6	6	316	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
6	6	326	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
6	6	336	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
17	17	526	0.38	0.38	0.38	0.38	0.38	0.38				
7	7	346	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22
7	7	356	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
7	7	366	0.22	0.22								
8	8	368	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
9	9	377	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24
9	9	387	0.24	0.24	0.24							
10	10	390	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	
11	11	399	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
11	11	409	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	
12	12	418	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
12	12	428	0.35	0.35	0.35							
13	13	431	0.34	0.34								
14	14	433	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.37
14	14	443	0.37	0.37								
15	15	445	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38
15	15	455	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	465	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	475	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	485	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	495	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
15	15	505	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38

15	15	515	0.38	0.38	0.38							
16	16	518	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38		

INTERMEDIATE REPORT

Sediment Oxygen Demand LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

g/m²/d Calibration Simulation for Lake Penchant and Bayou Penchant mode

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	5.07	5.07	5.08	5.08	5.09	5.10	5.10	5.11	5.11	5.12
1	1	11	5.13	5.13	5.14	5.14	5.15	5.15	5.16	5.17	5.17	5.18
1	1	21	5.18	5.19	5.20	5.20	5.21	5.21	5.22	5.23	5.23	5.24
1	1	31	5.24	5.25	5.26							
2	2	34	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	44	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	54	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	64	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	74	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	84	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	94	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	104	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	114	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	124	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	134	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	144	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68	5.68
2	2	154	5.68	5.68	5.68	5.68	5.68	5.68	5.68			
3	3	161	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	171	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	181	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	191	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	201	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
3	3	211	3.15	3.15								
4	4	213	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
4	4	223	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
4	4	233	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
4	4	243	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	253	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	263	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	273	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	283	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	293	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	303	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
5	5	313	3.15	3.15	3.15							
6	6	316	3.16	3.16	3.16	3.17	3.17	3.17	3.18	3.18	3.18	3.19
6	6	326	3.19	3.19	3.20	3.20	3.20	3.21	3.21	3.21	3.22	3.22
6	6	336	3.22	3.23	3.23	3.23	3.24	3.24	3.24	3.25	3.25	3.25
17	17	526	3.25	3.25	3.24	3.24	3.24	3.23				
7	7	346	3.09	3.09	3.08	3.08	3.07	3.07	3.06	3.06	3.06	3.05
7	7	356	3.05	3.04	3.04	3.03	3.03	3.02	3.02	3.02	3.01	3.01
7	7	366	3.00	3.00								
8	8	368	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	
9	9	377	3.01	3.01	3.02	3.03	3.04	3.04	3.05	3.06	3.06	3.07
9	9	387	3.08	3.09	3.09							

10	10	390	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	
11	11	399	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78
11	11	409	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	
12	12	418	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78
12	12	428	5.78	5.78	5.78							
13	13	431	3.09	3.09								
14	14	433	3.11	3.12	3.13	3.15	3.16	3.17	3.19	3.20	3.21	3.23
14	14	443	3.24	3.25								
15	15	445	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	455	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	465	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	475	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	485	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	495	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	505	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
15	15	515	3.25	3.25	3.25							
16	16	518	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25		

CONDENSED CAPSULE SUMMARY FOR Bayou Chene

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3 NH3	CHLA	RATE	DECA	SETT	DECA	SETT	DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	30.66731	31.50	0.00	6.20	16.08	0.00	1.60	0.10	70.00							
35.00	30.66125	31.22	0.00	6.20	16.08	0.00	1.60	0.10	70.15	2.30	0.20	0.00	0.00	0.00	0.35	5.07
34.90	30.65519	31.24	0.00	6.20	16.08	0.00	1.60	0.10	70.30	2.30	0.20	0.00	0.00	0.00	0.35	5.07
34.80	30.64913	31.25	0.00	6.20	16.08	0.00	1.60	0.10	70.45	2.30	0.20	0.00	0.00	0.00	0.35	5.08
34.70	30.64307	31.27	0.00	6.20	16.08	0.00	1.60	0.10	70.61	2.30	0.20	0.00	0.00	0.00	0.35	5.08
34.60	30.63701	31.29	0.00	6.20	16.08	0.00	1.60	0.10	70.76	2.30	0.20	0.00	0.00	0.00	0.35	5.09
34.50	30.63095	31.31	0.00	6.20	16.08	0.00	1.60	0.10	70.91	2.30	0.20	0.00	0.00	0.00	0.35	5.10
34.40	30.62489	31.33	0.00	6.20	16.08	0.00	1.60	0.10	71.06	2.30	0.20	0.00	0.00	0.00	0.35	5.10
34.30	30.61883	31.35	0.00	6.20	16.08	0.00	1.60	0.10	71.21	2.31	0.20	0.00	0.00	0.00	0.35	5.11
34.20	30.61277	31.36	0.00	6.20	16.08	0.00	1.60	0.10	71.36	2.31	0.20	0.00	0.00	0.00	0.35	5.11
34.10	30.60671	31.38	0.00	6.20	16.08	0.00	1.60	0.10	71.52	2.31	0.20	0.00	0.00	0.00	0.35	5.12
34.00	30.60065	31.40	0.00	6.20	16.08	0.00	1.60	0.10	71.67	2.31	0.20	0.00	0.00	0.00	0.36	5.13
33.90	30.59459	31.42	0.00	6.21	16.08	0.00	1.60	0.10	71.82	2.31	0.20	0.00	0.00	0.00	0.36	5.13
33.80	30.58854	31.44	0.00	6.21	16.08	0.00	1.60	0.10	71.97	2.31	0.20	0.00	0.00	0.00	0.36	5.14
33.70	30.58248	31.45	0.00	6.21	16.08	0.00	1.60	0.10	72.12	2.31	0.20	0.00	0.00	0.00	0.36	5.14
33.60	30.57642	31.47	0.00	6.21	16.08	0.00	1.59	0.10	72.27	2.31	0.20	0.00	0.00	0.00	0.36	5.15
33.50	30.57036	31.49	0.00	6.21	16.08	0.00	1.59	0.10	72.42	2.31	0.20	0.00	0.00	0.00	0.36	5.15
33.40	30.56430	31.51	0.00	6.21	16.08	0.00	1.59	0.10	72.58	2.31	0.20	0.00	0.00	0.00	0.36	5.16
33.30	30.55824	31.53	0.00	6.21	16.08	0.00	1.59	0.10	72.73	2.31	0.20	0.00	0.00	0.00	0.36	5.17
33.20	30.55218	31.55	0.00	6.21	16.08	0.00	1.59	0.10	72.88	2.31	0.20	0.00	0.00	0.00	0.36	5.17
33.10	30.54612	31.56	0.00	6.21	16.08	0.00	1.59	0.10	73.03	2.31	0.20	0.00	0.00	0.00	0.36	5.18
33.00	30.54006	31.58	0.00	6.21	16.08	0.00	1.59	0.10	73.18	2.31	0.20	0.00	0.00	0.00	0.36	5.18
32.90	30.53400	31.60	0.00	6.21	16.08	0.00	1.59	0.10	73.33	2.31	0.20	0.00	0.00	0.00	0.36	5.19
32.80	30.52794	31.62	0.00	6.21	16.08	0.00	1.59	0.10	73.48	2.31	0.20	0.00	0.00	0.00	0.36	5.20
32.70	30.52188	31.64	0.00	6.21	16.08	0.00	1.59	0.10	73.64	2.31	0.20	0.00	0.00	0.00	0.36	5.20
32.60	30.51582	31.65	0.00	6.21	16.08	0.00	1.59	0.10	73.79	2.31	0.20	0.00	0.00	0.00	0.36	5.21
32.50	30.50976	31.67	0.00	6.21	16.08	0.00	1.59	0.10	73.94	2.31	0.21	0.00	0.00	0.00	0.36	5.21
32.40	30.50370	31.69	0.00	6.22	16.08	0.00	1.59	0.10	74.09	2.31	0.21	0.00	0.00	0.00	0.36	5.22

32.30	30.49764	31.71	0.00	6.22	16.08	0.00	1.59	0.10	74.24	2.31	0.21	0.00	0.00	0.00	0.36	5.23
32.20	30.49158	31.73	0.00	6.22	16.08	0.00	1.59	0.10	74.39	2.32	0.21	0.00	0.00	0.00	0.36	5.23
32.10	30.48552	31.75	0.00	6.22	16.08	0.00	1.59	0.10	74.55	2.32	0.21	0.00	0.00	0.00	0.37	5.24
32.00	30.47946	31.76	0.00	6.22	16.08	0.00	1.59	0.10	74.70	2.32	0.21	0.00	0.00	0.00	0.37	5.24
31.90	30.47340	31.78	0.00	6.22	16.08	0.00	1.59	0.10	74.85	2.32	0.21	0.00	0.00	0.00	0.37	5.25
31.80	30.46734	31.80	0.00	6.22	16.08	0.00	1.59	0.10	75.00	2.32	0.21	0.00	0.00	0.00	0.37	5.26
31.70	30.46577	31.80	0.00	6.22	16.11	0.00	1.59	0.10	75.04	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.60	30.46419	31.80	0.00	6.22	16.14	0.00	1.59	0.10	75.08	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.50	30.46262	31.80	0.00	6.22	16.17	0.00	1.59	0.10	75.12	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.40	30.46104	31.80	0.00	6.22	16.20	0.00	1.60	0.10	75.16	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.30	30.45947	31.80	0.00	6.22	16.23	0.00	1.60	0.10	75.20	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.20	30.45789	31.80	0.00	6.21	16.26	0.00	1.60	0.10	75.24	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.10	30.45631	31.80	0.00	6.21	16.29	0.00	1.60	0.10	75.28	2.57	0.21	0.00	0.00	0.00	0.37	5.68
31.00	30.45474	31.80	0.00	6.21	16.32	0.00	1.60	0.10	75.31	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.90	30.45316	31.80	0.00	6.21	16.35	0.00	1.60	0.10	75.35	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.80	30.45159	31.80	0.00	6.21	16.38	0.00	1.61	0.10	75.39	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.70	30.45001	31.80	0.00	6.21	16.41	0.00	1.61	0.10	75.43	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.60	30.44844	31.80	0.00	6.21	16.44	0.00	1.61	0.10	75.47	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.50	30.44686	31.80	0.00	6.21	16.47	0.00	1.61	0.10	75.51	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.40	30.44529	31.80	0.00	6.21	16.50	0.00	1.61	0.10	75.55	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.30	30.44371	31.80	0.00	6.21	16.52	0.00	1.61	0.10	75.59	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.20	30.44213	31.80	0.00	6.20	16.55	0.00	1.62	0.10	75.63	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.10	30.44056	31.80	0.00	6.20	16.58	0.00	1.62	0.10	75.67	2.57	0.21	0.00	0.00	0.00	0.37	5.68
30.00	30.43898	31.80	0.00	6.20	16.61	0.00	1.62	0.10	75.71	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.90	30.43741	31.80	0.00	6.20	16.64	0.00	1.62	0.10	75.75	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.80	30.43583	31.80	0.00	6.20	16.67	0.00	1.62	0.10	75.79	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.70	30.43426	31.80	0.00	6.20	16.70	0.00	1.63	0.10	75.83	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.60	30.43268	31.80	0.00	6.20	16.73	0.00	1.63	0.10	75.87	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.50	30.43111	31.80	0.00	6.20	16.75	0.00	1.63	0.10	75.91	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.40	30.42953	31.80	0.00	6.20	16.78	0.00	1.63	0.10	75.94	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.30	30.42796	31.80	0.00	6.20	16.81	0.00	1.63	0.10	75.98	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.20	30.42638	31.80	0.00	6.19	16.84	0.00	1.63	0.10	76.02	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.10	30.42480	31.80	0.00	6.19	16.87	0.00	1.64	0.10	76.06	2.57	0.21	0.00	0.00	0.00	0.37	5.68
29.00	30.42323	31.80	0.00	6.19	16.90	0.00	1.64	0.10	76.10	2.57	0.21	0.00	0.00	0.00	0.37	5.68
28.90	30.42165	31.80	0.00	6.19	16.92	0.00	1.64	0.10	76.14	2.57	0.21	0.00	0.00	0.00	0.37	5.68
28.80	30.42008	31.80	0.00	6.19	16.95	0.00	1.64	0.10	76.18	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.70	30.41850	31.80	0.00	6.19	16.98	0.00	1.64	0.10	76.22	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.60	30.41693	31.80	0.00	6.19	17.01	0.00	1.64	0.10	76.26	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.50	30.41535	31.80	0.00	6.19	17.04	0.00	1.65	0.10	76.30	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.40	30.41378	31.80	0.00	6.19	17.06	0.00	1.65	0.10	76.34	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.30	30.41220	31.80	0.00	6.19	17.09	0.00	1.65	0.10	76.38	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.20	30.41063	31.80	0.00	6.18	17.12	0.00	1.65	0.10	76.42	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.10	30.40905	31.80	0.00	6.18	17.15	0.00	1.65	0.10	76.46	2.56	0.21	0.00	0.00	0.00	0.37	5.68
28.00	30.40747	31.80	0.00	6.18	17.18	0.00	1.65	0.10	76.50	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.90	30.40590	31.80	0.00	6.18	17.20	0.00	1.66	0.10	76.54	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.80	30.40432	31.80	0.00	6.18	17.23	0.00	1.66	0.10	76.57	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.70	30.40275	31.80	0.00	6.18	17.26	0.00	1.66	0.10	76.61	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.60	30.40117	31.80	0.00	6.18	17.29	0.00	1.66	0.10	76.65	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.50	30.39960	31.80	0.00	6.18	17.31	0.00	1.66	0.10	76.69	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.40	30.39802	31.80	0.00	6.18	17.34	0.00	1.66	0.10	76.73	2.56	0.21	0.00	0.00	0.00	0.37	5.68

27.30	30.39645	31.80	0.00	6.18	17.37	0.00	1.67	0.10	76.77	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.20	30.39487	31.80	0.00	6.18	17.40	0.00	1.67	0.10	76.81	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.10	30.39330	31.80	0.00	6.17	17.42	0.00	1.67	0.10	76.85	2.56	0.21	0.00	0.00	0.00	0.37	5.68
27.00	30.39172	31.80	0.00	6.17	17.45	0.00	1.67	0.10	76.89	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.90	30.39014	31.80	0.00	6.17	17.48	0.00	1.67	0.10	76.93	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.80	30.38857	31.80	0.00	6.17	17.50	0.00	1.67	0.10	76.97	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.70	30.38699	31.80	0.00	6.17	17.53	0.00	1.68	0.10	77.01	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.60	30.38542	31.80	0.00	6.17	17.56	0.00	1.68	0.10	77.05	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.50	30.38384	31.80	0.00	6.17	17.58	0.00	1.68	0.10	77.09	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.40	30.38227	31.80	0.00	6.17	17.61	0.00	1.68	0.10	77.13	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.30	30.38069	31.80	0.00	6.17	17.64	0.00	1.68	0.10	77.17	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.20	30.37912	31.80	0.00	6.17	17.66	0.00	1.68	0.10	77.20	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.10	30.37754	31.80	0.00	6.16	17.69	0.00	1.69	0.10	77.24	2.56	0.21	0.00	0.00	0.00	0.37	5.68
26.00	30.37597	31.80	0.00	6.16	17.72	0.00	1.69	0.10	77.28	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.90	30.37439	31.80	0.00	6.16	17.74	0.00	1.69	0.10	77.32	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.80	30.37281	31.80	0.00	6.16	17.77	0.00	1.69	0.10	77.36	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.70	30.37124	31.80	0.00	6.16	17.80	0.00	1.69	0.10	77.40	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.60	30.36966	31.80	0.00	6.16	17.82	0.00	1.69	0.10	77.44	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.50	30.36809	31.80	0.00	6.16	17.85	0.00	1.70	0.10	77.48	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.40	30.36651	31.80	0.00	6.16	17.88	0.00	1.70	0.10	77.52	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.30	30.36494	31.80	0.00	6.16	17.90	0.00	1.70	0.10	77.56	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.20	30.36336	31.80	0.00	6.16	17.93	0.00	1.70	0.10	77.60	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.10	30.36179	31.80	0.00	6.16	17.95	0.00	1.70	0.10	77.64	2.56	0.21	0.00	0.00	0.00	0.37	5.68
25.00	30.36021	31.80	0.00	6.15	17.98	0.00	1.70	0.10	77.68	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.90	30.35863	31.80	0.00	6.15	18.01	0.00	1.71	0.10	77.72	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.80	30.35706	31.80	0.00	6.15	18.03	0.00	1.71	0.10	77.76	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.70	30.35548	31.80	0.00	6.15	18.06	0.00	1.71	0.10	77.80	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.60	30.35391	31.80	0.00	6.15	18.08	0.00	1.71	0.10	77.83	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.50	30.35233	31.80	0.00	6.15	18.11	0.00	1.71	0.10	77.87	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.40	30.35076	31.80	0.00	6.15	18.13	0.00	1.71	0.10	77.91	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.30	30.34918	31.80	0.00	6.15	18.16	0.00	1.72	0.10	77.95	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.20	30.34761	31.80	0.00	6.15	18.18	0.00	1.72	0.10	77.99	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.10	30.34603	31.80	0.00	6.15	18.21	0.00	1.72	0.10	78.03	2.56	0.21	0.00	0.00	0.00	0.37	5.68
24.00	30.34446	31.80	0.00	6.15	18.24	0.00	1.72	0.10	78.07	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.90	30.34288	31.80	0.00	6.14	18.26	0.00	1.72	0.10	78.11	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.80	30.34130	31.80	0.00	6.14	18.29	0.00	1.72	0.10	78.15	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.70	30.33973	31.80	0.00	6.14	18.31	0.00	1.73	0.10	78.19	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.60	30.33815	31.80	0.00	6.14	18.34	0.00	1.73	0.10	78.23	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.50	30.33658	31.80	0.00	6.14	18.36	0.00	1.73	0.10	78.27	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.40	30.33500	31.80	0.00	6.14	18.39	0.00	1.73	0.10	78.31	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.30	30.33343	31.80	0.00	6.14	18.41	0.00	1.73	0.10	78.35	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.20	30.33185	31.80	0.00	6.14	18.44	0.00	1.73	0.10	78.39	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.10	30.33028	31.80	0.00	6.14	18.46	0.00	1.73	0.10	78.43	2.56	0.21	0.00	0.00	0.00	0.37	5.68
23.00	30.32870	31.80	0.00	6.14	18.49	0.00	1.74	0.10	78.46	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.90	30.32713	31.80	0.00	6.14	18.51	0.00	1.74	0.10	78.50	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.80	30.32555	31.80	0.00	6.14	18.54	0.00	1.74	0.10	78.54	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.70	30.32397	31.80	0.00	6.13	18.56	0.00	1.74	0.10	78.58	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.60	30.32240	31.80	0.00	6.13	18.59	0.00	1.74	0.10	78.62	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.50	30.32082	31.80	0.00	6.13	18.61	0.00	1.74	0.10	78.66	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.40	30.31925	31.80	0.00	6.13	18.64	0.00	1.75	0.10	78.70	2.56	0.21	0.00	0.00	0.00	0.37	5.68

22.30	30.31767	31.80	0.00	6.13	18.66	0.00	1.75	0.10	78.74	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.20	30.31610	31.80	0.00	6.13	18.68	0.00	1.75	0.10	78.78	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.10	30.31452	31.80	0.00	6.13	18.71	0.00	1.75	0.10	78.82	2.56	0.21	0.00	0.00	0.00	0.37	5.68
22.00	30.31295	31.80	0.00	6.13	18.73	0.00	1.75	0.10	78.86	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.90	30.31137	31.80	0.00	6.13	18.76	0.00	1.75	0.10	78.90	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.80	30.30980	31.80	0.00	6.13	18.78	0.00	1.76	0.10	78.94	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.70	30.30822	31.80	0.00	6.13	18.81	0.00	1.76	0.10	78.98	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.60	30.30664	31.80	0.00	6.13	18.83	0.00	1.76	0.10	79.02	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.50	30.30507	31.80	0.00	6.12	18.85	0.00	1.76	0.10	79.06	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.40	30.30349	31.80	0.00	6.12	18.88	0.00	1.76	0.10	79.09	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.30	30.30192	31.80	0.00	6.12	18.90	0.00	1.76	0.10	79.13	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.20	30.30034	31.80	0.00	6.12	18.93	0.00	1.76	0.10	79.17	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.10	30.29877	31.80	0.00	6.12	18.95	0.00	1.77	0.10	79.21	2.56	0.21	0.00	0.00	0.00	0.37	5.68
21.00	30.29719	31.80	0.00	6.12	18.97	0.00	1.77	0.10	79.25	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.90	30.29562	31.80	0.00	6.12	19.00	0.00	1.77	0.10	79.29	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.80	30.29404	31.80	0.00	6.12	19.02	0.00	1.77	0.10	79.33	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.70	30.29247	31.80	0.00	6.12	19.05	0.00	1.77	0.10	79.37	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.60	30.29089	31.80	0.00	6.12	19.07	0.00	1.77	0.10	79.41	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.50	30.28931	31.80	0.00	6.12	19.09	0.00	1.78	0.10	79.45	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.40	30.28774	31.80	0.00	6.12	19.12	0.00	1.78	0.10	79.49	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.30	30.28616	31.80	0.00	6.11	19.14	0.00	1.78	0.10	79.53	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.20	30.28459	31.80	0.00	6.11	19.16	0.00	1.78	0.10	79.57	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.10	30.28301	31.80	0.00	6.11	19.19	0.00	1.78	0.10	79.61	2.56	0.21	0.00	0.00	0.00	0.37	5.68
20.00	30.28144	31.80	0.00	6.11	19.21	0.00	1.78	0.10	79.65	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.90	30.27986	31.80	0.00	6.11	19.23	0.00	1.78	0.10	79.69	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.80	30.27829	31.80	0.00	6.11	19.26	0.00	1.79	0.10	79.72	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.70	30.27671	31.80	0.00	6.11	19.28	0.00	1.79	0.10	79.76	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.60	30.27514	31.80	0.00	6.11	19.30	0.00	1.79	0.10	79.80	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.50	30.27356	31.80	0.00	6.11	19.33	0.00	1.79	0.10	79.84	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.40	30.27198	31.80	0.00	6.11	19.35	0.00	1.79	0.10	79.88	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.30	30.27041	31.80	0.00	6.11	19.37	0.00	1.79	0.10	79.92	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.20	30.26883	31.80	0.00	6.11	19.40	0.00	1.80	0.10	79.96	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.10	30.26726	31.80	0.00	6.11	19.42	0.00	1.80	0.10	80.00	2.56	0.21	0.00	0.00	0.00	0.37	5.68
19.00	22.95771	31.80	0.00	6.13	19.40	0.00	1.80	0.10	79.62	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.90	22.95386	31.80	0.00	6.16	19.39	0.00	1.80	0.10	79.23	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.80	22.95002	31.80	0.00	6.20	19.37	0.00	1.80	0.10	78.85	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.70	22.94617	31.80	0.00	6.23	19.35	0.00	1.79	0.10	78.46	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.60	22.94232	31.80	0.00	6.26	19.34	0.00	1.79	0.10	78.08	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.50	22.93847	31.80	0.00	6.29	19.32	0.00	1.79	0.10	77.69	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.40	22.93463	31.80	0.00	6.32	19.30	0.00	1.79	0.10	77.31	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.30	22.93078	31.80	0.00	6.35	19.28	0.00	1.79	0.10	76.92	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.20	22.92693	31.80	0.00	6.38	19.27	0.00	1.79	0.10	76.54	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.10	22.92309	31.80	0.00	6.41	19.25	0.00	1.79	0.10	76.15	0.79	0.09	0.00	0.00	0.00	0.37	3.15
18.00	22.91924	31.80	0.00	6.44	19.23	0.00	1.79	0.10	75.77	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.90	22.91539	31.80	0.00	6.46	19.21	0.00	1.79	0.10	75.38	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.80	22.91154	31.80	0.00	6.49	19.20	0.00	1.79	0.10	75.00	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.70	22.90770	31.80	0.00	6.52	19.18	0.00	1.79	0.10	74.62	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.60	22.90385	31.80	0.00	6.55	19.16	0.00	1.79	0.10	74.23	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.50	22.90000	31.80	0.00	6.57	19.15	0.00	1.79	0.10	73.85	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.40	22.89616	31.80	0.00	6.60	19.13	0.00	1.79	0.10	73.46	0.79	0.09	0.00	0.00	0.00	0.37	3.15

17.30	22.89231	31.80	0.00	6.62	19.11	0.00	1.79	0.10	73.08	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.20	22.88846	31.80	0.00	6.65	19.10	0.00	1.79	0.10	72.69	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.10	22.88461	31.80	0.00	6.67	19.08	0.00	1.79	0.10	72.31	0.79	0.09	0.00	0.00	0.00	0.37	3.15
17.00	22.88077	31.80	0.00	6.70	19.06	0.00	1.78	0.10	71.92	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.90	22.87692	31.80	0.00	6.72	19.04	0.00	1.78	0.10	71.54	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.80	22.87307	31.80	0.00	6.74	19.03	0.00	1.78	0.10	71.15	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.70	22.86923	31.80	0.00	6.77	19.01	0.00	1.78	0.10	70.77	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.60	22.86538	31.80	0.00	6.79	18.99	0.00	1.78	0.10	70.38	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.50	22.86153	31.80	0.00	6.81	18.98	0.00	1.78	0.10	70.00	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.40	22.85769	31.80	0.00	6.83	18.96	0.00	1.78	0.10	69.62	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.30	22.85384	31.80	0.00	6.85	18.94	0.00	1.78	0.10	69.23	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.20	22.84999	31.80	0.00	6.87	18.93	0.00	1.78	0.10	68.85	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.10	22.84614	31.80	0.00	6.90	18.91	0.00	1.78	0.10	68.46	0.79	0.09	0.00	0.00	0.00	0.37	3.15
16.00	22.84230	31.80	0.00	6.92	18.89	0.00	1.78	0.10	68.08	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.90	22.83845	31.80	0.00	6.94	18.88	0.00	1.78	0.11	67.69	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.80	22.83460	31.80	0.00	6.95	18.86	0.00	1.78	0.11	67.31	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.70	22.83076	31.80	0.00	6.97	18.84	0.00	1.78	0.11	66.92	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.60	22.82691	31.80	0.00	6.99	18.82	0.00	1.78	0.11	66.54	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.50	22.82306	31.80	0.00	7.01	18.81	0.00	1.78	0.11	66.15	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.40	22.81921	31.80	0.00	7.03	18.79	0.00	1.78	0.11	65.77	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.30	22.81537	31.80	0.00	7.05	18.77	0.00	1.78	0.11	65.38	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.20	22.81152	31.80	0.00	7.06	18.76	0.00	1.77	0.11	65.00	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.10	22.80767	31.80	0.00	7.08	18.74	0.00	1.77	0.11	64.62	0.79	0.09	0.00	0.00	0.00	0.37	3.15
15.00	22.80383	31.80	0.00	7.10	18.72	0.00	1.77	0.11	64.23	0.79	0.09	0.00	0.00	0.00	0.37	3.15
14.90	22.79998	31.80	0.00	7.11	18.71	0.00	1.77	0.11	63.85	0.79	0.09	0.00	0.00	0.00	0.38	3.15
14.80	22.79613	31.80	0.00	7.13	18.69	0.00	1.77	0.11	63.46	0.79	0.09	0.00	0.00	0.00	0.38	3.15
14.70	22.79228	31.80	0.00	7.14	18.67	0.00	1.77	0.11	63.08	0.79	0.09	0.00	0.00	0.00	0.38	3.15
14.60	22.78844	31.80	0.00	7.16	18.66	0.00	1.77	0.11	62.69	0.79	0.09	0.00	0.00	0.00	0.38	3.15
14.50	22.78459	31.80	0.00	7.17	18.64	0.00	1.77	0.11	62.31	0.79	0.09	0.00	0.00	0.00	0.38	3.15
14.40	22.78074	31.80	0.00	7.19	18.62	0.00	1.77	0.11	61.92	0.79	0.09	0.00	0.00	0.00	0.38	3.15
14.30	22.77690	31.80	0.00	7.20	18.61	0.00	1.77	0.11	61.54	0.78	0.09	0.00	0.00	0.00	0.38	3.15
14.20	22.77305	31.80	0.00	7.21	18.59	0.00	1.77	0.11	61.15	0.78	0.09	0.00	0.00	0.00	0.38	3.15
14.10	22.76920	31.80	0.00	7.23	18.58	0.00	1.77	0.11	60.77	0.78	0.09	0.00	0.00	0.00	0.38	3.15
14.00	22.76535	31.80	0.00	7.24	18.56	0.00	1.77	0.11	60.38	0.78	0.09	0.00	0.00	0.00	0.38	3.15
13.90	22.76151	31.80	0.00	7.24	18.50	0.00	1.77	0.11	60.00	0.78	0.09	0.00	0.00	0.00	0.38	3.15
13.80	25.02187	31.80	0.00	6.96	17.15	0.00	1.79	0.10	59.50	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.70	25.01687	31.80	0.00	6.98	17.13	0.00	1.79	0.10	59.00	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.60	25.01187	31.80	0.00	7.00	17.10	0.00	1.79	0.10	58.50	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.50	25.00687	31.80	0.00	7.02	17.08	0.00	1.79	0.10	58.00	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.40	25.00187	31.80	0.00	7.04	17.06	0.00	1.78	0.10	57.50	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.30	24.99687	31.80	0.00	7.06	17.04	0.00	1.78	0.10	57.00	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.20	24.99187	31.80	0.00	7.08	17.02	0.00	1.78	0.10	56.50	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.10	24.98687	31.80	0.00	7.10	16.99	0.00	1.78	0.10	56.00	0.63	0.09	0.00	0.00	0.00	0.37	3.15
13.00	24.98187	31.80	0.00	7.12	16.97	0.00	1.78	0.10	55.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.90	24.97688	31.80	0.00	7.14	16.95	0.00	1.78	0.10	55.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.80	24.97188	31.80	0.00	7.15	16.93	0.00	1.78	0.10	54.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.70	24.96688	31.80	0.00	7.17	16.91	0.00	1.78	0.10	54.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.60	24.96188	31.80	0.00	7.18	16.88	0.00	1.78	0.10	53.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.50	24.95688	31.80	0.00	7.20	16.86	0.00	1.78	0.10	53.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.40	24.95188	31.80	0.00	7.21	16.84	0.00	1.78	0.10	52.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15

12.30	24.94688	31.80	0.00	7.23	16.82	0.00	1.78	0.10	52.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.20	24.94188	31.80	0.00	7.24	16.80	0.00	1.77	0.10	51.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.10	24.93688	31.80	0.00	7.25	16.78	0.00	1.77	0.10	51.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
12.00	24.93188	31.80	0.00	7.26	16.75	0.00	1.77	0.10	50.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.90	24.92688	31.80	0.00	7.27	16.73	0.00	1.77	0.10	50.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.80	24.92188	31.80	0.00	7.28	16.71	0.00	1.77	0.10	49.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.70	24.91689	31.80	0.00	7.29	16.69	0.00	1.77	0.10	49.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.60	24.91189	31.80	0.00	7.30	16.67	0.00	1.77	0.10	48.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.50	24.90689	31.80	0.00	7.31	16.65	0.00	1.77	0.10	48.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.40	24.90189	31.80	0.00	7.32	16.62	0.00	1.77	0.10	47.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.30	24.89689	31.80	0.00	7.32	16.60	0.00	1.77	0.10	47.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.20	24.89189	31.80	0.00	7.33	16.58	0.00	1.77	0.10	46.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.10	24.88689	31.80	0.00	7.34	16.56	0.00	1.77	0.10	46.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
11.00	24.88189	31.80	0.00	7.34	16.54	0.00	1.77	0.10	45.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
10.90	24.87689	31.80	0.00	7.35	16.52	0.00	1.76	0.10	45.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
10.80	24.87189	31.80	0.00	7.35	16.50	0.00	1.76	0.10	44.50	0.63	0.09	0.00	0.00	0.00	0.38	3.15
10.70	24.86689	31.80	0.00	7.36	16.47	0.00	1.76	0.10	44.00	0.63	0.09	0.00	0.00	0.00	0.38	3.15
10.60	24.86189	31.80	0.00	7.36	16.45	0.00	1.76	0.10	43.50	0.62	0.09	0.00	0.00	0.00	0.38	3.15
10.50	24.85690	31.80	0.00	7.36	16.43	0.00	1.76	0.10	43.00	0.62	0.09	0.00	0.00	0.00	0.38	3.15
10.40	24.85190	31.80	0.00	7.36	16.41	0.00	1.76	0.10	42.50	0.62	0.09	0.00	0.00	0.00	0.38	3.15
10.30	24.84690	31.80	0.00	7.37	16.39	0.00	1.76	0.10	42.00	0.62	0.09	0.00	0.00	0.00	0.38	3.15
10.20	24.84190	31.80	0.00	7.37	16.37	0.00	1.76	0.10	41.50	0.62	0.09	0.00	0.00	0.00	0.38	3.15
10.10	24.83690	31.80	0.00	7.37	16.35	0.00	1.76	0.10	41.00	0.62	0.09	0.00	0.00	0.00	0.38	3.15
10.00	24.83190	31.80	0.00	7.37	16.33	0.00	1.76	0.10	40.50	0.62	0.09	0.00	0.00	0.00	0.38	3.15
9.90	24.82690	31.80	0.00	7.37	16.31	0.00	1.76	0.10	40.00	0.62	0.09	0.00	0.00	0.00	0.38	3.15
9.80	5.48323	31.80	0.00	7.37	16.29	0.00	1.76	0.10	39.75	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.70	5.48005	31.80	0.00	7.36	16.24	0.00	1.75	0.10	39.49	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.60	5.47688	31.80	0.00	7.36	16.18	0.00	1.75	0.10	39.24	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.50	5.47370	31.80	0.00	7.36	16.13	0.00	1.75	0.10	38.98	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.40	5.47053	31.80	0.00	7.35	16.07	0.00	1.75	0.10	38.73	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.30	5.46735	31.80	0.00	7.35	16.01	0.00	1.75	0.10	38.48	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.20	5.46418	31.80	0.00	7.34	15.96	0.00	1.74	0.10	38.22	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.10	5.46100	31.80	0.00	7.34	15.91	0.00	1.74	0.11	37.97	0.49	0.09	0.00	0.00	0.00	0.38	3.15
9.00	5.45783	31.80	0.00	7.33	15.85	0.00	1.74	0.11	37.71	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.90	5.45465	31.80	0.00	7.33	15.80	0.00	1.74	0.11	37.46	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.80	5.45148	31.80	0.00	7.32	15.74	0.00	1.73	0.11	37.21	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.70	5.44830	31.80	0.00	7.31	15.69	0.00	1.73	0.11	36.95	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.60	5.44513	31.80	0.00	7.30	15.64	0.00	1.73	0.11	36.70	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.50	5.44195	31.80	0.00	7.30	15.58	0.00	1.73	0.11	36.44	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.40	5.43878	31.80	0.00	7.29	15.53	0.00	1.73	0.11	36.19	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.30	5.43561	31.80	0.00	7.28	15.48	0.00	1.72	0.11	35.94	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.20	5.43243	31.80	0.00	7.27	15.42	0.00	1.72	0.11	35.68	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.10	5.42926	31.80	0.00	7.26	15.37	0.00	1.72	0.11	35.43	0.49	0.09	0.00	0.00	0.00	0.38	3.15
8.00	5.42608	31.80	0.00	7.25	15.32	0.00	1.72	0.11	35.17	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.90	5.42291	31.80	0.00	7.24	15.27	0.00	1.72	0.11	34.92	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.80	5.41973	31.80	0.00	7.23	15.21	0.00	1.71	0.11	34.67	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.70	5.41656	31.80	0.00	7.21	15.16	0.00	1.71	0.11	34.41	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.60	5.41338	31.80	0.00	7.20	15.11	0.00	1.71	0.11	34.16	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.50	5.41021	31.80	0.00	7.19	15.06	0.00	1.71	0.11	33.90	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.40	5.40703	31.80	0.00	7.18	15.01	0.00	1.71	0.11	33.65	0.49	0.09	0.00	0.00	0.00	0.38	3.15

7.30	5.40386	31.80	0.00	7.16	14.96	0.00	1.70	0.11	33.40	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.20	5.40068	31.80	0.00	7.15	14.91	0.00	1.70	0.11	33.14	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.10	5.39751	31.80	0.00	7.14	14.85	0.00	1.70	0.11	32.89	0.49	0.09	0.00	0.00	0.00	0.38	3.15
7.00	5.39433	31.80	0.00	7.12	14.80	0.00	1.70	0.11	32.63	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.90	5.39116	31.80	0.00	7.11	14.75	0.00	1.70	0.11	32.38	0.49	0.09	0.00	0.00	0.00	0.38	3.15
6.80	5.38798	31.80	0.00	7.09	14.70	0.00	1.69	0.11	32.13	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.70	5.38481	31.80	0.00	7.08	14.65	0.00	1.69	0.11	31.87	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.60	5.38163	31.80	0.00	7.06	14.60	0.00	1.69	0.11	31.62	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.50	5.37846	31.80	0.00	7.05	14.55	0.00	1.69	0.11	31.37	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.40	5.37528	31.80	0.00	7.03	14.51	0.00	1.68	0.11	31.11	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.30	5.37211	31.80	0.00	7.01	14.46	0.00	1.68	0.11	30.86	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.20	5.36893	31.80	0.00	7.00	14.41	0.00	1.68	0.11	30.60	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.10	5.36576	31.80	0.00	6.98	14.36	0.00	1.68	0.11	30.35	0.49	0.09	0.00	0.00	0.00	0.37	3.15
6.00	5.36259	31.80	0.00	6.96	14.31	0.00	1.68	0.11	30.10	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.90	5.35941	31.80	0.00	6.94	14.26	0.00	1.67	0.11	29.84	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.80	5.35624	31.80	0.00	6.93	14.21	0.00	1.67	0.11	29.59	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.70	5.35306	31.80	0.00	6.91	14.17	0.00	1.67	0.11	29.33	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.60	5.34989	31.80	0.00	6.89	14.12	0.00	1.67	0.11	29.08	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.50	5.34671	31.80	0.00	6.87	14.07	0.00	1.67	0.11	28.83	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.40	5.34354	31.80	0.00	6.85	14.02	0.00	1.66	0.11	28.57	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.30	5.34036	31.80	0.00	6.83	13.97	0.00	1.66	0.11	28.32	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.20	5.33719	31.80	0.00	6.81	13.93	0.00	1.66	0.11	28.06	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.10	5.33401	31.80	0.00	6.79	13.88	0.00	1.66	0.11	27.81	0.49	0.09	0.00	0.00	0.00	0.37	3.15
5.00	5.33084	31.80	0.00	6.77	13.83	0.00	1.66	0.11	27.56	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.90	5.32766	31.80	0.00	6.75	13.79	0.00	1.65	0.11	27.30	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.80	5.32449	31.80	0.00	6.73	13.74	0.00	1.65	0.11	27.05	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.70	5.32131	31.80	0.00	6.71	13.70	0.00	1.65	0.11	26.79	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.60	5.31814	31.80	0.00	6.69	13.65	0.00	1.65	0.11	26.54	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.50	5.31496	31.80	0.00	6.67	13.60	0.00	1.65	0.11	26.29	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.40	5.31179	31.80	0.00	6.65	13.56	0.00	1.65	0.11	26.03	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.30	5.30861	31.80	0.00	6.63	13.51	0.00	1.64	0.11	25.78	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.20	5.30544	31.80	0.00	6.60	13.47	0.00	1.64	0.11	25.52	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.10	5.30226	31.80	0.00	6.58	13.42	0.00	1.64	0.11	25.27	0.49	0.09	0.00	0.00	0.00	0.37	3.15
4.00	5.29909	31.80	0.00	6.56	13.38	0.00	1.64	0.11	25.02	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.90	5.29591	31.80	0.00	6.54	13.33	0.00	1.64	0.11	24.76	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.80	5.29274	31.80	0.00	6.51	13.29	0.00	1.63	0.11	24.51	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.70	5.28957	31.80	0.00	6.49	13.24	0.00	1.63	0.11	24.25	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.60	5.28639	31.80	0.00	6.47	13.20	0.00	1.63	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.15
3.50	5.27972	31.82	0.00	6.44	13.14	0.00	1.63	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.16
3.40	5.27306	31.83	0.00	6.41	13.08	0.00	1.62	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.16
3.30	5.26639	31.85	0.00	6.38	13.02	0.00	1.62	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.16
3.20	5.25972	31.87	0.00	6.35	12.96	0.00	1.62	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.17
3.10	5.25306	31.88	0.00	6.33	12.91	0.00	1.62	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.17
3.00	5.24639	31.90	0.00	6.30	12.85	0.00	1.61	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.17
2.90	5.23972	31.92	0.00	6.27	12.79	0.00	1.61	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.18
2.80	5.23306	31.93	0.00	6.25	12.74	0.00	1.61	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.18
2.70	5.22639	31.95	0.00	6.23	12.68	0.00	1.60	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.18
2.60	5.21972	31.97	0.00	6.20	12.63	0.00	1.60	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.19
2.50	5.21306	31.98	0.00	6.18	12.57	0.00	1.60	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.19
2.40	5.20639	32.00	0.00	6.16	12.52	0.00	1.60	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.19

2.30	5.19972	32.02	0.00	6.14	12.46	0.00	1.59	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.20
2.20	5.19306	32.03	0.00	6.12	12.41	0.00	1.59	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.20
2.10	5.18639	32.05	0.00	6.10	12.35	0.00	1.59	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.20
2.00	5.17972	32.07	0.00	6.08	12.30	0.00	1.59	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.21
1.90	5.17306	32.08	0.00	6.06	12.25	0.00	1.58	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.21
1.80	5.16639	32.10	0.00	6.04	12.19	0.00	1.58	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.21
1.70	5.15972	32.12	0.00	6.02	12.14	0.00	1.58	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.22
1.60	5.15306	32.13	0.00	6.01	12.09	0.00	1.58	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.22
1.50	5.14639	32.15	0.00	5.99	12.03	0.00	1.57	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.22
1.40	5.13972	32.17	0.00	5.97	11.98	0.00	1.57	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.37	3.23
1.30	5.13306	32.18	0.00	5.96	11.93	0.00	1.57	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.23
1.20	5.12639	32.20	0.00	5.94	11.88	0.00	1.56	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.23
1.10	5.11972	32.22	0.00	5.93	11.83	0.00	1.56	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.24
1.00	5.11306	32.23	0.00	5.91	11.78	0.00	1.56	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.24
0.90	5.10639	32.25	0.00	5.90	11.72	0.00	1.56	0.11	24.00	0.49	0.09	0.00	0.00	0.00	0.38	3.24
0.80	5.09972	32.27	0.00	5.89	11.67	0.00	1.56	0.11	24.00	0.50	0.09	0.00	0.00	0.00	0.38	3.25
0.70	5.09306	32.28	0.00	5.88	11.59	0.00	1.56	0.11	24.00	0.50	0.09	0.00	0.00	0.00	0.38	3.25
0.60	5.08639	32.30	0.00	5.89	11.32	0.00	1.60	0.11	24.00	0.50	0.09	0.00	0.00	0.00	0.38	3.25
0.50	8.81007	32.28	0.00	6.07	9.39	0.00	1.93	0.12	24.00	0.79	0.09	0.00	0.00	0.00	0.38	3.25
0.40	8.81007	32.27	0.00	6.06	9.38	0.00	1.93	0.12	24.00	0.79	0.09	0.00	0.00	0.00	0.38	3.25
0.30	8.81007	32.25	0.00	6.06	9.36	0.00	1.93	0.12	24.00	0.79	0.09	0.00	0.00	0.00	0.38	3.24
0.20	8.81007	32.23	0.00	6.06	9.35	0.00	1.93	0.12	24.00	0.79	0.09	0.00	0.00	0.00	0.38	3.24
0.10	8.81007	32.22	0.00	6.05	9.28	0.00	1.91	0.12	24.00	0.79	0.09	0.00	0.00	0.00	0.38	3.24
0.00	8.81007	32.20	0.00	6.05	8.45	0.00	1.69	0.12	24.00	0.79	0.09	0.00	0.00	0.00	0.38	3.23

CONDENSED CAPSULE SUMMARY FOR Station 935

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	BOD2 NH3	NH3	CHLA	RATE	DECA	SETT	DECA	SETT	DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.11327	31.20	0.00	4.70	3.42	0.00	0.90	0.10	10.00								
17.90	0.11327	31.48	0.00	4.71	3.25	0.00	0.89	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.09
17.80	0.11327	31.45	0.00	4.73	3.08	0.00	0.87	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.09
17.70	0.11327	31.43	0.00	4.76	2.92	0.00	0.86	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.08
17.60	0.11327	31.41	0.00	4.78	2.78	0.00	0.85	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.23	3.08
17.50	0.11327	31.39	0.00	4.81	2.64	0.00	0.83	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.07
17.40	0.11327	31.36	0.00	4.84	2.50	0.00	0.82	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.07
17.30	0.11327	31.34	0.00	4.87	2.38	0.00	0.81	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.06
17.20	0.11327	31.32	0.00	4.89	2.26	0.00	0.79	0.10	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.06
17.10	0.11327	31.30	0.00	4.92	2.14	0.00	0.78	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.06
17.00	0.11327	31.27	0.00	4.95	2.03	0.00	0.77	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.05
16.90	0.11327	31.25	0.00	4.98	1.93	0.00	0.76	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.05
16.80	0.11327	31.23	0.00	5.00	1.84	0.00	0.75	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.04
16.70	0.11327	31.20	0.00	5.03	1.74	0.00	0.73	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.04
16.60	0.11327	31.18	0.00	5.05	1.66	0.00	0.72	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.03
16.50	0.11327	31.16	0.00	5.08	1.57	0.00	0.71	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.03
16.40	0.11327	31.14	0.00	5.10	1.49	0.00	0.70	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.02
16.30	0.11327	31.11	0.00	5.12	1.42	0.00	0.69	0.09	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.02
16.20	0.11327	31.09	0.00	5.15	1.35	0.00	0.68	0.08	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.02
16.10	0.11327	31.07	0.00	5.17	1.28	0.00	0.67	0.08	10.00	0.49	0.08	0.00	0.00	0.00	0.22	3.01
16.00	0.11327	31.05	0.00	5.19	1.22	0.00	0.66	0.08	10.00	0.48	0.08	0.00	0.00	0.00	0.22	3.01
15.90	0.11327	31.02	0.00	5.21	1.16	0.00	0.65	0.08	10.00	0.48	0.08	0.00	0.00	0.00	0.22	3.00

15.80	0.11327	31.00	0.00	5.23	1.10	0.00	0.64	0.08	10.00	0.48	0.08	0.00	0.00	0.00	0.22	3.00
15.70	0.28411	31.00	0.00	7.00	2.65	0.00	0.75	0.08	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.60	0.45496	31.00	0.00	7.03	2.87	0.00	0.77	0.08	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.50	0.62580	31.00	0.00	7.03	2.93	0.00	0.78	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.40	0.79665	31.00	0.00	7.03	2.96	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.30	0.96749	31.00	0.00	7.02	2.97	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.20	1.13834	31.00	0.00	7.02	2.97	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.10	1.30918	31.00	0.00	7.02	2.98	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
15.00	1.48003	31.00	0.00	7.02	2.98	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
14.90	1.65087	31.00	0.00	7.02	2.98	0.00	0.79	0.09	10.00	0.64	0.08	0.00	0.00	0.00	0.23	1.20
14.80	1.80378	31.04	0.00	6.28	3.58	0.00	1.05	0.09	11.15	0.64	0.08	0.00	0.00	0.00	0.23	3.01
14.70	1.95669	31.08	0.00	5.95	4.01	0.00	1.25	0.10	12.31	0.64	0.08	0.00	0.00	0.00	0.23	3.01
14.60	2.10959	31.12	0.00	5.81	4.34	0.00	1.41	0.11	13.46	0.64	0.08	0.00	0.00	0.00	0.23	3.02
14.50	2.26250	31.15	0.00	5.77	4.59	0.00	1.54	0.12	14.62	0.65	0.08	0.00	0.00	0.00	0.23	3.03
14.40	2.41541	31.19	0.00	5.78	4.79	0.00	1.65	0.13	15.77	0.65	0.08	0.00	0.00	0.00	0.23	3.04
14.30	2.56832	31.23	0.00	5.83	4.94	0.00	1.73	0.13	16.92	0.65	0.08	0.00	0.00	0.00	0.23	3.04
14.20	2.72122	31.27	0.00	5.89	5.06	0.00	1.80	0.14	18.08	0.65	0.08	0.00	0.00	0.00	0.23	3.05
14.10	2.87413	31.31	0.00	5.96	5.16	0.00	1.86	0.14	19.23	0.65	0.08	0.00	0.00	0.00	0.23	3.06
14.00	3.02704	31.35	0.00	6.04	5.24	0.00	1.92	0.15	20.38	0.65	0.08	0.00	0.00	0.00	0.23	3.06
13.90	3.17995	31.38	0.00	6.13	5.31	0.00	1.96	0.15	21.54	0.65	0.08	0.00	0.00	0.00	0.24	3.07
13.80	3.33285	31.42	0.00	6.22	5.36	0.00	2.00	0.16	22.69	0.65	0.08	0.00	0.00	0.00	0.24	3.08
13.70	3.48576	31.46	0.00	6.32	5.41	0.00	2.03	0.16	23.85	0.65	0.08	0.00	0.00	0.00	0.24	3.09
13.60	3.63867	31.50	0.00	6.41	5.45	0.00	2.06	0.16	25.00	0.65	0.08	0.00	0.00	0.00	0.24	3.09
13.50	3.63867	31.50	0.00	6.29	5.48	0.00	2.04	0.16	26.44	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.40	3.63867	31.50	0.00	6.19	5.51	0.00	2.03	0.16	27.89	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.30	3.63867	31.50	0.00	6.10	5.54	0.00	2.01	0.16	29.33	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.20	3.63867	31.50	0.00	6.02	5.57	0.00	2.00	0.16	30.78	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.10	3.63867	31.50	0.00	5.96	5.59	0.00	1.98	0.15	32.22	0.49	0.08	0.00	0.00	0.00	0.36	5.78
13.00	3.63867	31.50	0.00	5.91	5.62	0.00	1.97	0.15	33.67	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.90	3.63867	31.50	0.00	5.88	5.65	0.00	1.96	0.15	35.11	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.80	3.63867	31.50	0.00	5.85	5.67	0.00	1.94	0.15	36.56	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.70	3.63867	31.50	0.00	5.84	5.70	0.00	1.93	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.60	3.63867	31.50	0.00	5.83	5.71	0.00	1.92	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.50	3.63867	31.50	0.00	5.82	5.73	0.00	1.91	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.40	3.63867	31.50	0.00	5.82	5.74	0.00	1.91	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.30	3.63867	31.50	0.00	5.81	5.76	0.00	1.90	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.20	3.63867	31.50	0.00	5.81	5.77	0.00	1.90	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.10	3.63867	31.50	0.00	5.80	5.78	0.00	1.89	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
12.00	3.63867	31.50	0.00	5.80	5.80	0.00	1.89	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.90	3.63867	31.50	0.00	5.79	5.81	0.00	1.88	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.80	3.63867	31.50	0.00	5.79	5.82	0.00	1.87	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.70	3.63867	31.50	0.00	5.78	5.84	0.00	1.87	0.15	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.60	3.63867	31.50	0.00	5.77	5.85	0.00	1.86	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.50	3.63867	31.50	0.00	5.77	5.86	0.00	1.86	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.40	3.63867	31.50	0.00	5.77	5.88	0.00	1.85	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.30	3.63867	31.50	0.00	5.76	5.89	0.00	1.85	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.20	3.63867	31.50	0.00	5.76	5.90	0.00	1.84	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.10	3.63867	31.50	0.00	5.75	5.91	0.00	1.83	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
11.00	3.63867	31.50	0.00	5.75	5.93	0.00	1.83	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
10.90	3.63867	31.50	0.00	5.74	5.94	0.00	1.82	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78

10.80	3.63867	31.50	0.00	5.74	5.95	0.00	1.82	0.14	38.00	0.49	0.08	0.00	0.00	0.00	0.35	5.78
10.70	3.63867	31.50	0.00	5.71	5.98	0.00	1.81	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.60	3.63867	31.50	0.00	5.68	6.00	0.00	1.80	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.50	3.63867	31.50	0.00	5.66	6.03	0.00	1.80	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.40	3.63867	31.50	0.00	5.63	6.05	0.00	1.79	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.30	3.63867	31.50	0.00	5.61	6.08	0.00	1.79	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.20	3.63867	31.50	0.00	5.59	6.10	0.00	1.78	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.10	3.63867	31.50	0.00	5.57	6.13	0.00	1.77	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
10.00	3.63867	31.50	0.00	5.54	6.15	0.00	1.77	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.90	3.63867	31.50	0.00	5.52	6.17	0.00	1.76	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.80	3.63867	31.50	0.00	5.50	6.20	0.00	1.75	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.70	3.63867	31.50	0.00	5.48	6.22	0.00	1.75	0.14	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.60	3.63867	31.50	0.00	5.46	6.25	0.00	1.74	0.13	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.50	3.63867	31.50	0.00	5.41	6.33	0.00	1.78	0.13	38.00	0.62	0.08	0.00	0.00	0.00	0.35	5.78
9.40	6.66859	31.50	0.00	4.69	7.95	0.00	2.76	0.10	38.00	0.75	0.08	0.00	0.00	0.00	0.34	3.09
9.30	6.66859	31.50	0.00	4.73	7.94	0.00	2.76	0.10	38.00	0.75	0.08	0.00	0.00	0.00	0.34	3.09
9.20	3.47091	31.57	0.00	4.76	7.93	0.00	2.76	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.34	3.11
9.10	3.47304	31.63	0.00	4.82	7.91	0.00	2.76	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.34	3.12
9.00	3.47516	31.70	0.00	4.87	7.88	0.00	2.75	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.35	3.13
8.90	3.47729	31.77	0.00	4.93	7.86	0.00	2.75	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.35	3.15
8.80	3.47941	31.83	0.00	4.98	7.84	0.00	2.75	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.35	3.16
8.70	3.48154	31.90	0.00	5.03	7.82	0.00	2.74	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.35	3.17
8.60	3.48366	31.97	0.00	5.09	7.80	0.00	2.74	0.10	38.00	0.62	0.09	0.00	0.00	0.00	0.36	3.19
8.50	3.48579	32.03	0.00	5.14	7.78	0.00	2.74	0.11	38.00	0.62	0.09	0.00	0.00	0.00	0.36	3.20
8.40	3.48791	32.10	0.00	5.18	7.76	0.00	2.73	0.11	38.00	0.62	0.09	0.00	0.00	0.00	0.36	3.21
8.30	3.49004	32.17	0.00	5.23	7.74	0.00	2.73	0.11	38.00	0.62	0.09	0.00	0.00	0.00	0.37	3.23
8.20	3.49216	32.23	0.00	5.28	7.72	0.00	2.73	0.11	38.00	0.62	0.09	0.00	0.00	0.00	0.37	3.24
8.10	3.49429	32.30	0.00	5.32	7.70	0.00	2.72	0.11	38.00	0.62	0.09	0.00	0.00	0.00	0.37	3.25
8.00	3.49708	32.30	0.00	5.36	7.68	0.00	2.72	0.11	37.89	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.90	3.49988	32.30	0.00	5.40	7.66	0.00	2.72	0.11	37.78	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.80	3.50267	32.30	0.00	5.44	7.64	0.00	2.71	0.11	37.67	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.70	3.50546	32.30	0.00	5.48	7.62	0.00	2.71	0.11	37.56	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.60	3.50825	32.30	0.00	5.51	7.61	0.00	2.70	0.11	37.45	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.50	3.51105	32.30	0.00	5.55	7.59	0.00	2.70	0.11	37.34	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.40	3.51384	32.30	0.00	5.58	7.57	0.00	2.70	0.12	37.23	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.30	3.51663	32.30	0.00	5.62	7.55	0.00	2.69	0.12	37.12	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.20	3.51943	32.30	0.00	5.65	7.53	0.00	2.69	0.12	37.01	0.62	0.09	0.00	0.00	0.00	0.37	3.25
7.10	3.52222	32.30	0.00	5.68	7.52	0.00	2.69	0.12	36.90	0.62	0.09	0.00	0.00	0.00	0.38	3.25
7.00	3.52501	32.30	0.00	5.71	7.50	0.00	2.68	0.12	36.79	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.90	3.52781	32.30	0.00	5.74	7.48	0.00	2.68	0.12	36.68	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.80	3.53060	32.30	0.00	5.77	7.46	0.00	2.68	0.12	36.58	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.70	3.53339	32.30	0.00	5.80	7.45	0.00	2.67	0.12	36.47	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.60	3.53619	32.30	0.00	5.82	7.43	0.00	2.67	0.12	36.36	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.50	3.53898	32.30	0.00	5.85	7.41	0.00	2.67	0.12	36.25	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.40	3.54177	32.30	0.00	5.87	7.39	0.00	2.66	0.12	36.14	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.30	3.54456	32.30	0.00	5.90	7.38	0.00	2.66	0.12	36.03	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.20	3.54736	32.30	0.00	5.92	7.36	0.00	2.66	0.12	35.92	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.10	3.55015	32.30	0.00	5.95	7.34	0.00	2.65	0.12	35.81	0.62	0.09	0.00	0.00	0.00	0.38	3.25
6.00	3.55294	32.30	0.00	5.97	7.33	0.00	2.65	0.12	35.70	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.90	3.55574	32.30	0.00	5.99	7.31	0.00	2.65	0.13	35.59	0.62	0.09	0.00	0.00	0.00	0.38	3.25

5.80	3.55853	32.30	0.00	6.01	7.29	0.00	2.64	0.13	35.48	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.70	3.56132	32.30	0.00	6.03	7.27	0.00	2.64	0.13	35.37	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.60	3.56412	32.30	0.00	6.05	7.26	0.00	2.64	0.13	35.26	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.50	3.56691	32.30	0.00	6.07	7.24	0.00	2.63	0.13	35.15	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.40	3.56970	32.30	0.00	6.09	7.22	0.00	2.63	0.13	35.04	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.30	3.57250	32.30	0.00	6.11	7.21	0.00	2.62	0.13	34.93	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.20	3.57529	32.30	0.00	6.12	7.19	0.00	2.62	0.13	34.82	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.10	3.57808	32.30	0.00	6.14	7.18	0.00	2.62	0.13	34.71	0.62	0.09	0.00	0.00	0.00	0.38	3.25
5.00	3.58087	32.30	0.00	6.16	7.16	0.00	2.61	0.13	34.60	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.90	3.58367	32.30	0.00	6.17	7.14	0.00	2.61	0.13	34.49	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.80	3.58646	32.30	0.00	6.19	7.13	0.00	2.61	0.13	34.38	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.70	3.58925	32.30	0.00	6.20	7.11	0.00	2.60	0.13	34.27	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.60	3.59205	32.30	0.00	6.21	7.09	0.00	2.60	0.13	34.16	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.50	3.59484	32.30	0.00	6.23	7.08	0.00	2.60	0.13	34.05	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.40	3.59763	32.30	0.00	6.24	7.06	0.00	2.59	0.13	33.95	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.30	3.60043	32.30	0.00	6.25	7.05	0.00	2.59	0.13	33.84	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.20	3.60322	32.30	0.00	6.26	7.03	0.00	2.59	0.13	33.73	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.10	3.60601	32.30	0.00	6.28	7.01	0.00	2.59	0.13	33.62	0.62	0.09	0.00	0.00	0.00	0.38	3.25
4.00	3.60881	32.30	0.00	6.29	7.00	0.00	2.58	0.13	33.51	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.90	3.61160	32.30	0.00	6.30	6.98	0.00	2.58	0.13	33.40	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.80	3.61439	32.30	0.00	6.31	6.97	0.00	2.58	0.13	33.29	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.70	3.61718	32.30	0.00	6.32	6.95	0.00	2.57	0.14	33.18	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.60	3.61998	32.30	0.00	6.32	6.94	0.00	2.57	0.14	33.07	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.50	3.62277	32.30	0.00	6.33	6.92	0.00	2.57	0.14	32.96	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.40	3.62556	32.30	0.00	6.34	6.91	0.00	2.56	0.14	32.85	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.30	3.62836	32.30	0.00	6.35	6.89	0.00	2.56	0.14	32.74	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.20	3.63115	32.30	0.00	6.36	6.88	0.00	2.56	0.14	32.63	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.10	3.63394	32.30	0.00	6.36	6.86	0.00	2.55	0.14	32.52	0.62	0.09	0.00	0.00	0.00	0.38	3.25
3.00	3.63674	32.30	0.00	6.37	6.85	0.00	2.55	0.14	32.41	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.90	3.63953	32.30	0.00	6.38	6.83	0.00	2.55	0.14	32.30	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.80	3.64232	32.30	0.00	6.38	6.82	0.00	2.54	0.14	32.19	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.70	3.64512	32.30	0.00	6.39	6.80	0.00	2.54	0.14	32.08	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.60	3.64791	32.30	0.00	6.39	6.79	0.00	2.54	0.14	31.97	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.50	3.65070	32.30	0.00	6.40	6.77	0.00	2.53	0.14	31.86	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.40	3.65349	32.30	0.00	6.40	6.76	0.00	2.53	0.14	31.75	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.30	3.65629	32.30	0.00	6.40	6.74	0.00	2.53	0.14	31.64	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.20	3.65908	32.30	0.00	6.41	6.73	0.00	2.52	0.14	31.53	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.10	3.66187	32.30	0.00	6.41	6.71	0.00	2.52	0.14	31.42	0.62	0.09	0.00	0.00	0.00	0.38	3.25
2.00	3.66467	32.30	0.00	6.42	6.70	0.00	2.52	0.14	31.32	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.90	3.66746	32.30	0.00	6.42	6.68	0.00	2.51	0.14	31.21	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.80	3.67025	32.30	0.00	6.42	6.67	0.00	2.51	0.14	31.10	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.70	3.67305	32.30	0.00	6.42	6.66	0.00	2.51	0.14	30.99	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.60	3.67584	32.30	0.00	6.42	6.64	0.00	2.51	0.14	30.88	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.50	3.67863	32.30	0.00	6.43	6.63	0.00	2.50	0.14	30.77	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.40	3.68143	32.30	0.00	6.43	6.61	0.00	2.50	0.14	30.66	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.30	3.68422	32.30	0.00	6.43	6.60	0.00	2.50	0.14	30.55	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.20	3.68701	32.30	0.00	6.43	6.59	0.00	2.49	0.14	30.44	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.10	3.68980	32.30	0.00	6.43	6.57	0.00	2.49	0.14	30.33	0.62	0.09	0.00	0.00	0.00	0.38	3.25
1.00	3.69260	32.30	0.00	6.43	6.56	0.00	2.49	0.14	30.22	0.62	0.09	0.00	0.00	0.00	0.38	3.25
0.90	3.69539	32.30	0.00	6.43	6.54	0.00	2.48	0.14	30.11	0.62	0.09	0.00	0.00	0.00	0.38	3.25

0.80	3.69818	32.30	0.00	6.43	6.53	0.00	2.48	0.14	30.00	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.70	3.70137	32.30	0.00	6.43	6.52	0.00	2.48	0.14	29.25	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.60	3.70456	32.30	0.00	6.42	6.50	0.00	2.47	0.14	28.50	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.50	3.70775	32.30	0.00	6.42	6.49	0.00	2.47	0.14	27.75	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.40	3.71093	32.30	0.00	6.41	6.48	0.00	2.47	0.14	27.00	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.30	3.71412	32.30	0.00	6.40	6.46	0.00	2.47	0.14	26.25	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.20	3.71731	32.30	0.00	6.39	6.45	0.00	2.46	0.14	25.50	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.10	3.72050	32.30	0.00	6.38	6.44	0.00	2.46	0.14	24.75	0.62	0.09	0.00	0.00	0.00	0.38	3.25								
0.00	3.72368	32.30	0.00	6.35	6.52	0.00	2.44	0.14	24.00	0.62	0.09	0.00	0.00	0.00	0.38	3.25								

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN VELO	DO SAT	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
	HDWTR			30.667	31.5	0.0	6.2	16.1	0.0	1.6	0.1	70.0													
1	1	1	35.00	30.661	31.2	0.0	6.2	16.1	0.0	1.6	0.1	70.2	0.6	1.00	135.0	0.227	0.227	7.4	2.302	0.20	0.00	0.00	0.00	0.35	5.07
2	1	1	34.90	30.655	31.2	0.0	6.2	16.1	0.0	1.6	0.1	70.3	0.6	1.00	135.0	0.227	0.227	7.4	2.302	0.20	0.00	0.00	0.00	0.35	5.07
3	1	1	34.80	30.649	31.3	0.0	6.2	16.1	0.0	1.6	0.1	70.5	0.6	1.00	135.0	0.227	0.227	7.4	2.303	0.20	0.00	0.00	0.00	0.35	5.08
4	1	1	34.70	30.643	31.3	0.0	6.2	16.1	0.0	1.6	0.1	70.6	0.6	1.00	135.0	0.227	0.227	7.4	2.303	0.20	0.00	0.00	0.00	0.35	5.08
5	1	1	34.60	30.637	31.3	0.0	6.2	16.1	0.0	1.6	0.1	70.8	0.6	1.00	135.0	0.227	0.227	7.4	2.304	0.20	0.00	0.00	0.00	0.35	5.09
6	1	1	34.50	30.631	31.3	0.0	6.2	16.1	0.0	1.6	0.1	70.9	0.6	1.00	135.0	0.227	0.227	7.4	2.304	0.20	0.00	0.00	0.00	0.35	5.10
7	1	1	34.40	30.625	31.3	0.0	6.2	16.1	0.0	1.6	0.1	71.1	0.6	1.00	135.0	0.227	0.227	7.4	2.305	0.20	0.00	0.00	0.00	0.35	5.10
8	1	1	34.30	30.619	31.3	0.0	6.2	16.1	0.0	1.6	0.1	71.2	0.6	1.00	135.0	0.227	0.227	7.4	2.305	0.20	0.00	0.00	0.00	0.35	5.11
9	1	1	34.20	30.613	31.4	0.0	6.2	16.1	0.0	1.6	0.1	71.4	0.6	1.00	135.0	0.227	0.227	7.4	2.306	0.20	0.00	0.00	0.00	0.35	5.11
10	1	1	34.10	30.607	31.4	0.0	6.2	16.1	0.0	1.6	0.1	71.5	0.6	1.00	135.0	0.227	0.227	7.4	2.306	0.20	0.00	0.00	0.00	0.35	5.12
11	1	1	34.00	30.601	31.4	0.0	6.2	16.1	0.0	1.6	0.1	71.7	0.6	1.00	135.0	0.227	0.227	7.4	2.307	0.20	0.00	0.00	0.00	0.36	5.13
12	1	1	33.90	30.595	31.4	0.0	6.2	16.1	0.0	1.6	0.1	71.8	0.6	1.00	135.0	0.227	0.227	7.4	2.307	0.20	0.00	0.00	0.00	0.36	5.13
13	1	1	33.80	30.589	31.4	0.0	6.2	16.1	0.0	1.6	0.1	72.0	0.6	1.00	135.0	0.227	0.227	7.4	2.307	0.20	0.00	0.00	0.00	0.36	5.14
14	1	1	33.70	30.582	31.5	0.0	6.2	16.1	0.0	1.6	0.1	72.1	0.6	1.00	135.0	0.227	0.227	7.4	2.308	0.20	0.00	0.00	0.00	0.36	5.14
15	1	1	33.60	30.576	31.5	0.0	6.2	16.1	0.0	1.6	0.1	72.3	0.6	1.00	135.0	0.226	0.226	7.4	2.308	0.20	0.00	0.00	0.00	0.36	5.15
16	1	1	33.50	30.570	31.5	0.0	6.2	16.1	0.0	1.6	0.1	72.4	0.6	1.00	135.0	0.226	0.226	7.4	2.309	0.20	0.00	0.00	0.00	0.36	5.15
17	1	1	33.40	30.564	31.5	0.0	6.2	16.1	0.0	1.6	0.1	72.6	0.6	1.00	135.0	0.226	0.226	7.4	2.309	0.20	0.00	0.00	0.00	0.36	5.16
18	1	1	33.30	30.558	31.5	0.0	6.2	16.1	0.0	1.6	0.1	72.7	0.6	1.00	135.0	0.226	0.226	7.4	2.310	0.20	0.00	0.00	0.00	0.36	5.17
19	1	1	33.20	30.552	31.5	0.0	6.2	16.1	0.0	1.6	0.1	72.9	0.6	1.00	135.0	0.226	0.226	7.4	2.310	0.20	0.00	0.00	0.00	0.36	5.17
20	1	1	33.10	30.546	31.6	0.0	6.2	16.1	0.0	1.6	0.1	73.0	0.6	1.00	135.0	0.226	0.226	7.4	2.311	0.20	0.00	0.00	0.00	0.36	5.18
21	1	1	33.00	30.540	31.6	0.0	6.2	16.1	0.0	1.6	0.1	73.2	0.6	1.00	135.0	0.226	0.226	7.4	2.311	0.20	0.00	0.00	0.00	0.36	5.18
22	1	1	32.90	30.534	31.6	0.0	6.2	16.1	0.0	1.6	0.1	73.3	0.6	1.00	135.0	0.226	0.226	7.4	2.312	0.20	0.00	0.00	0.00	0.36	5.19
23	1	1	32.80	30.528	31.6	0.0	6.2	16.1	0.0	1.6	0.1	73.5	0.6	1.00	135.0	0.226	0.226	7.4	2.312	0.20	0.00	0.00	0.00	0.36	5.20
24	1	1	32.70	30.522	31.6	0.0	6.2	16.1	0.0	1.6	0.1	73.6	0.6	1.00	135.0	0.226	0.226	7.3	2.313	0.20	0.00	0.00	0.00	0.36	5.20
25	1	1	32.60	30.516	31.7	0.0	6.2	16.1	0.0	1.6	0.1	73.8	0.6	1.00	135.0	0.226	0.226	7.3	2.313	0.20	0.00	0.00	0.00	0.36	5.21
26	1	1	32.50	30.510	31.7	0.0	6.2	16.1	0.0	1.6	0.1	73.9	0.6	1.00	135.0	0.226	0.226	7.3	2.314	0.21	0.00	0.00	0.00	0.36	5.21
27	1	1	32.40	30.504	31.7	0.0	6.2	16.1	0.0	1.6	0.1	74.1	0.6	1.00	135.0	0.226	0.226	7.3	2.314	0.21	0.00	0.00	0.00	0.36	5.22
28	1	1	32.30	30.498	31.7	0.0	6.2	16.1	0.0	1.6	0.1	74.2	0.6	1.00	135.0	0.226	0.226	7.3	2.315	0.21	0.00	0.00	0.00	0.36	5.23
29	1	1	32.20	30.492	31.7	0.0	6.2	16.1	0.0	1.6	0.1	74.4	0.6	1.00	135.0	0.226	0.226	7.3	2.315	0.21	0.00	0.00	0.00	0.36	5.23
30	1	1	32.10	30.486	31.7	0.0	6.2	16.1	0.0	1.6	0.1	74.5	0.6	1.00	135.0	0.226	0.226	7.3	2.316	0.21	0.00	0.00	0.00	0.37	5.24
31	1	1	32.00	30.479	31.8	0.0	6.2	16.1	0.0	1.6	0.1	74.7	0.6	1.00	135.0	0.226	0.226	7.3	2.316	0.21	0.00	0.00	0.00	0.37	5.24
32	1	1	31.90	30.473	31.8	0.0	6.2	16.1	0.0	1.6	0.1	74.8	0.6	1.00	135.0	0.226	0.226	7.3	2.317	0.21	0.00	0.00	0.00	0.37	5.25
33	1	1	31.80	30.467	31.8	0.0	6.2	16.1	0.0	1.6	0.1	75.0	0.6	1.00	135.0	0.226	0.226	7.3	2.317	0.21	0.00	0.00	0.00	0.37	5.26
34	2	2	31.70	30.466	31.8	0.0	6.2	16.1	0.0	1.6	0.1	75.0	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68
35	2	2	31.60	30.464	31.8	0.0	6.2	16.1	0.0	1.6	0.1	75.1	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68
36	2	2	31.50	30.463	31.8	0.0	6.2	16.2	0.0	1.6	0.1	75.1	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68

37	2	2	31.40	30.461	31.8	0.0	6.2	16.2	0.0	1.6	0.1	75.2	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68
38	2	2	31.30	30.459	31.8	0.0	6.2	16.2	0.0	1.6	0.1	75.2	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68
39	2	2	31.20	30.458	31.8	0.0	6.2	16.3	0.0	1.6	0.1	75.2	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68
40	2	2	31.10	30.456	31.8	0.0	6.2	16.3	0.0	1.6	0.1	75.3	0.5	1.00	110.0	0.277	0.277	7.3	2.567	0.21	0.00	0.00	0.00	0.37	5.68
41	2	2	31.00	30.455	31.8	0.0	6.2	16.3	0.0	1.6	0.1	75.3	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
42	2	2	30.90	30.453	31.8	0.0	6.2	16.3	0.0	1.6	0.1	75.4	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
43	2	2	30.80	30.452	31.8	0.0	6.2	16.4	0.0	1.6	0.1	75.4	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
44	2	2	30.70	30.450	31.8	0.0	6.2	16.4	0.0	1.6	0.1	75.4	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
45	2	2	30.60	30.448	31.8	0.0	6.2	16.4	0.0	1.6	0.1	75.5	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
46	2	2	30.50	30.447	31.8	0.0	6.2	16.5	0.0	1.6	0.1	75.5	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
47	2	2	30.40	30.445	31.8	0.0	6.2	16.5	0.0	1.6	0.1	75.6	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
48	2	2	30.30	30.444	31.8	0.0	6.2	16.5	0.0	1.6	0.1	75.6	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
49	2	2	30.20	30.442	31.8	0.0	6.2	16.6	0.0	1.6	0.1	75.6	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
50	2	2	30.10	30.441	31.8	0.0	6.2	16.6	0.0	1.6	0.1	75.7	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
51	2	2	30.00	30.439	31.8	0.0	6.2	16.6	0.0	1.6	0.1	75.7	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
52	2	2	29.90	30.437	31.8	0.0	6.2	16.6	0.0	1.6	0.1	75.7	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
53	2	2	29.80	30.436	31.8	0.0	6.2	16.7	0.0	1.6	0.1	75.8	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
54	2	2	29.70	30.434	31.8	0.0	6.2	16.7	0.0	1.6	0.1	75.8	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
55	2	2	29.60	30.433	31.8	0.0	6.2	16.7	0.0	1.6	0.1	75.9	0.5	1.00	110.0	0.277	0.277	7.3	2.566	0.21	0.00	0.00	0.00	0.37	5.68
56	2	2	29.50	30.431	31.8	0.0	6.2	16.8	0.0	1.6	0.1	75.9	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
57	2	2	29.40	30.430	31.8	0.0	6.2	16.8	0.0	1.6	0.1	75.9	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
58	2	2	29.30	30.428	31.8	0.0	6.2	16.8	0.0	1.6	0.1	76.0	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
59	2	2	29.20	30.426	31.8	0.0	6.2	16.8	0.0	1.6	0.1	76.0	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
60	2	2	29.10	30.425	31.8	0.0	6.2	16.9	0.0	1.6	0.1	76.1	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
61	2	2	29.00	30.423	31.8	0.0	6.2	16.9	0.0	1.6	0.1	76.1	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
62	2	2	28.90	30.422	31.8	0.0	6.2	16.9	0.0	1.6	0.1	76.1	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
63	2	2	28.80	30.420	31.8	0.0	6.2	17.0	0.0	1.6	0.1	76.2	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
64	2	2	28.70	30.419	31.8	0.0	6.2	17.0	0.0	1.6	0.1	76.2	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
65	2	2	28.60	30.417	31.8	0.0	6.2	17.0	0.0	1.6	0.1	76.3	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
66	2	2	28.50	30.415	31.8	0.0	6.2	17.0	0.0	1.6	0.1	76.3	0.5	1.00	110.0	0.277	0.277	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
67	2	2	28.40	30.414	31.8	0.0	6.2	17.1	0.0	1.6	0.1	76.3	0.5	1.00	110.0	0.276	0.276	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
68	2	2	28.30	30.412	31.8	0.0	6.2	17.1	0.0	1.6	0.1	76.4	0.5	1.00	110.0	0.276	0.276	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
69	2	2	28.20	30.411	31.8	0.0	6.2	17.1	0.0	1.7	0.1	76.4	0.5	1.00	110.0	0.276	0.276	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
70	2	2	28.10	30.409	31.8	0.0	6.2	17.1	0.0	1.7	0.1	76.5	0.5	1.00	110.0	0.276	0.276	7.3	2.565	0.21	0.00	0.00	0.00	0.37	5.68
71	2	2	28.00	30.407	31.8	0.0	6.2	17.2	0.0	1.7	0.1	76.5	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
72	2	2	27.90	30.406	31.8	0.0	6.2	17.2	0.0	1.7	0.1	76.5	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
73	2	2	27.80	30.404	31.8	0.0	6.2	17.2	0.0	1.7	0.1	76.6	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	NH3 SETT	DECA SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	g/m²/d
74	2	2	27.70	30.403	31.8	0.0	6.2	17.3	0.0	1.7	0.1	76.6	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
75	2	2	27.60	30.401	31.8	0.0	6.2	17.3	0.0	1.7	0.1	76.7	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
76	2	2	27.50	30.400	31.8	0.0	6.2	17.3	0.0	1.7	0.1	76.7	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
77	2	2	27.40	30.398	31.8	0.0	6.2	17.3	0.0	1.7	0.1	76.7	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
78	2	2	27.30	30.396	31.8	0.0	6.2	17.4	0.0	1.7	0.1	76.8	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
79	2	2	27.20	30.395	31.8	0.0	6.2	17.4	0.0	1.7	0.1	76.8	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
80	2	2	27.10	30.393	31.8	0.0	6.2	17.4	0.0	1.7	0.1	76.9	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
81	2	2	27.00	30.392	31.8	0.0	6.2	17.4	0.0	1.7	0.1	76.9	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
82	2	2	26.90	30.390	31.8	0.0	6.2	17.5	0.0	1.7	0.1	76.9	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68

83	2	2	26.80	30.389	31.8	0.0	6.2	17.5	0.0	1.7	0.1	77.0	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
84	2	2	26.70	30.387	31.8	0.0	6.2	17.5	0.0	1.7	0.1	77.0	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
85	2	2	26.60	30.385	31.8	0.0	6.2	17.6	0.0	1.7	0.1	77.0	0.5	1.00	110.0	0.276	0.276	7.3	2.564	0.21	0.00	0.00	0.00	0.37	5.68
86	2	2	26.50	30.384	31.8	0.0	6.2	17.6	0.0	1.7	0.1	77.1	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
87	2	2	26.40	30.382	31.8	0.0	6.2	17.6	0.0	1.7	0.1	77.1	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
88	2	2	26.30	30.381	31.8	0.0	6.2	17.6	0.0	1.7	0.1	77.2	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
89	2	2	26.20	30.379	31.8	0.0	6.2	17.7	0.0	1.7	0.1	77.2	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
90	2	2	26.10	30.378	31.8	0.0	6.2	17.7	0.0	1.7	0.1	77.2	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
91	2	2	26.00	30.376	31.8	0.0	6.2	17.7	0.0	1.7	0.1	77.3	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
92	2	2	25.90	30.374	31.8	0.0	6.2	17.7	0.0	1.7	0.1	77.3	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
93	2	2	25.80	30.373	31.8	0.0	6.2	17.8	0.0	1.7	0.1	77.4	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
94	2	2	25.70	30.371	31.8	0.0	6.2	17.8	0.0	1.7	0.1	77.4	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
95	2	2	25.60	30.370	31.8	0.0	6.2	17.8	0.0	1.7	0.1	77.4	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
96	2	2	25.50	30.368	31.8	0.0	6.2	17.8	0.0	1.7	0.1	77.5	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
97	2	2	25.40	30.367	31.8	0.0	6.2	17.9	0.0	1.7	0.1	77.5	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
98	2	2	25.30	30.365	31.8	0.0	6.2	17.9	0.0	1.7	0.1	77.6	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
99	2	2	25.20	30.363	31.8	0.0	6.2	17.9	0.0	1.7	0.1	77.6	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
100	2	2	25.10	30.362	31.8	0.0	6.2	18.0	0.0	1.7	0.1	77.6	0.5	1.00	110.0	0.276	0.276	7.3	2.563	0.21	0.00	0.00	0.00	0.37	5.68
101	2	2	25.00	30.360	31.8	0.0	6.2	18.0	0.0	1.7	0.1	77.7	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
102	2	2	24.90	30.359	31.8	0.0	6.2	18.0	0.0	1.7	0.1	77.7	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
103	2	2	24.80	30.357	31.8	0.0	6.2	18.0	0.0	1.7	0.1	77.8	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
104	2	2	24.70	30.355	31.8	0.0	6.2	18.1	0.0	1.7	0.1	77.8	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
105	2	2	24.60	30.354	31.8	0.0	6.2	18.1	0.0	1.7	0.1	77.8	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
106	2	2	24.50	30.352	31.8	0.0	6.2	18.1	0.0	1.7	0.1	77.9	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
107	2	2	24.40	30.351	31.8	0.0	6.1	18.1	0.0	1.7	0.1	77.9	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
108	2	2	24.30	30.349	31.8	0.0	6.1	18.2	0.0	1.7	0.1	78.0	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
109	2	2	24.20	30.348	31.8	0.0	6.1	18.2	0.0	1.7	0.1	78.0	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
110	2	2	24.10	30.346	31.8	0.0	6.1	18.2	0.0	1.7	0.1	78.0	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
111	2	2	24.00	30.344	31.8	0.0	6.1	18.2	0.0	1.7	0.1	78.1	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
112	2	2	23.90	30.343	31.8	0.0	6.1	18.3	0.0	1.7	0.1	78.1	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
113	2	2	23.80	30.341	31.8	0.0	6.1	18.3	0.0	1.7	0.1	78.1	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
114	2	2	23.70	30.340	31.8	0.0	6.1	18.3	0.0	1.7	0.1	78.2	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
115	2	2	23.60	30.338	31.8	0.0	6.1	18.3	0.0	1.7	0.1	78.2	0.5	1.00	110.0	0.276	0.276	7.3	2.562	0.21	0.00	0.00	0.00	0.37	5.68
116	2	2	23.50	30.337	31.8	0.0	6.1	18.4	0.0	1.7	0.1	78.3	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
117	2	2	23.40	30.335	31.8	0.0	6.1	18.4	0.0	1.7	0.1	78.3	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
118	2	2	23.30	30.333	31.8	0.0	6.1	18.4	0.0	1.7	0.1	78.3	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
119	2	2	23.20	30.332	31.8	0.0	6.1	18.4	0.0	1.7	0.1	78.4	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
120	2	2	23.10	30.330	31.8	0.0	6.1	18.5	0.0	1.7	0.1	78.4	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
121	2	2	23.00	30.329	31.8	0.0	6.1	18.5	0.0	1.7	0.1	78.5	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
122	2	2	22.90	30.327	31.8	0.0	6.1	18.5	0.0	1.7	0.1	78.5	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
123	2	2	22.80	30.326	31.8	0.0	6.1	18.5	0.0	1.7	0.1	78.5	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
124	2	2	22.70	30.324	31.8	0.0	6.1	18.6	0.0	1.7	0.1	78.6	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
125	2	2	22.60	30.322	31.8	0.0	6.1	18.6	0.0	1.7	0.1	78.6	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
126	2	2	22.50	30.321	31.8	0.0	6.1	18.6	0.0	1.7	0.1	78.7	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
127	2	2	22.40	30.319	31.8	0.0	6.1	18.6	0.0	1.7	0.1	78.7	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
128	2	2	22.30	30.318	31.8	0.0	6.1	18.7	0.0	1.7	0.1	78.7	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
129	2	2	22.20	30.316	31.8	0.0	6.1	18.7	0.0	1.7	0.1	78.8	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
130	2	2	22.10	30.315	31.8	0.0	6.1	18.7	0.0	1.8	0.1	78.8	0.5	1.00	110.0	0.276	0.276	7.3	2.561	0.21	0.00	0.00	0.00	0.37	5.68
131	2	2	22.00	30.313	31.8	0.0	6.1	18.7	0.0	1.8	0.1	78.9	0.5	1.00	110.0	0.276	0.276	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
132	2	2	21.90	30.311	31.8	0.0	6.1	18.8	0.0	1.8	0.1	78.9	0.5	1.00	110.0	0.276	0.276	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68

133	2	2	21.80	30.310	31.8	0.0	6.1	18.8	0.0	1.8	0.1	78.9	0.5	1.00	110.0	0.276	0.276	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
134	2	2	21.70	30.308	31.8	0.0	6.1	18.8	0.0	1.8	0.1	79.0	0.5	1.00	110.0	0.276	0.276	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
135	2	2	21.60	30.307	31.8	0.0	6.1	18.8	0.0	1.8	0.1	79.0	0.5	1.00	110.0	0.276	0.276	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
136	2	2	21.50	30.305	31.8	0.0	6.1	18.9	0.0	1.8	0.1	79.1	0.5	1.00	110.0	0.276	0.276	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
137	2	2	21.40	30.303	31.8	0.0	6.1	18.9	0.0	1.8	0.1	79.1	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
138	2	2	21.30	30.302	31.8	0.0	6.1	18.9	0.0	1.8	0.1	79.1	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
139	2	2	21.20	30.300	31.8	0.0	6.1	18.9	0.0	1.8	0.1	79.2	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
140	2	2	21.10	30.299	31.8	0.0	6.1	19.0	0.0	1.8	0.1	79.2	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
141	2	2	21.00	30.297	31.8	0.0	6.1	19.0	0.0	1.8	0.1	79.3	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
142	2	2	20.90	30.296	31.8	0.0	6.1	19.0	0.0	1.8	0.1	79.3	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
143	2	2	20.80	30.294	31.8	0.0	6.1	19.0	0.0	1.8	0.1	79.3	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
144	2	2	20.70	30.292	31.8	0.0	6.1	19.0	0.0	1.8	0.1	79.4	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
145	2	2	20.60	30.291	31.8	0.0	6.1	19.1	0.0	1.8	0.1	79.4	0.5	1.00	110.0	0.275	0.275	7.3	2.560	0.21	0.00	0.00	0.00	0.37	5.68
146	2	2	20.50	30.289	31.8	0.0	6.1	19.1	0.0	1.8	0.1	79.4	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
147	2	2	20.40	30.288	31.8	0.0	6.1	19.1	0.0	1.8	0.1	79.5	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	NH3 SETT	DECA SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
148	2	2	20.30	30.286	31.8	0.0	6.1	19.1	0.0	1.8	0.1	79.5	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
149	2	2	20.20	30.285	31.8	0.0	6.1	19.2	0.0	1.8	0.1	79.6	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
150	2	2	20.10	30.283	31.8	0.0	6.1	19.2	0.0	1.8	0.1	79.6	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
151	2	2	20.00	30.281	31.8	0.0	6.1	19.2	0.0	1.8	0.1	79.6	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
152	2	2	19.90	30.280	31.8	0.0	6.1	19.2	0.0	1.8	0.1	79.7	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
153	2	2	19.80	30.278	31.8	0.0	6.1	19.3	0.0	1.8	0.1	79.7	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
154	2	2	19.70	30.277	31.8	0.0	6.1	19.3	0.0	1.8	0.1	79.8	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
155	2	2	19.60	30.275	31.8	0.0	6.1	19.3	0.0	1.8	0.1	79.8	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
156	2	2	19.50	30.274	31.8	0.0	6.1	19.3	0.0	1.8	0.1	79.8	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
157	2	2	19.40	30.272	31.8	0.0	6.1	19.3	0.0	1.8	0.1	79.9	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
158	2	2	19.30	30.270	31.8	0.0	6.1	19.4	0.0	1.8	0.1	79.9	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
159	2	2	19.20	30.269	31.8	0.0	6.1	19.4	0.0	1.8	0.1	80.0	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
160	2	2	19.10	30.267	31.8	0.0	6.1	19.4	0.0	1.8	0.1	80.0	0.5	1.00	110.0	0.275	0.275	7.3	2.559	0.21	0.00	0.00	0.00	0.37	5.68
DIVERSION # 161 (TRIB 1 OUTFLOW) LEAVES HERE																									
161	3	3	19.00	22.958	31.8	0.0	6.1	19.4	0.0	1.8	0.1	79.6	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
162	3	3	18.90	22.954	31.8	0.0	6.2	19.4	0.0	1.8	0.1	79.2	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
163	3	3	18.80	22.950	31.8	0.0	6.2	19.4	0.0	1.8	0.1	78.8	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
164	3	3	18.70	22.946	31.8	0.0	6.2	19.4	0.0	1.8	0.1	78.5	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
165	3	3	18.60	22.942	31.8	0.0	6.3	19.3	0.0	1.8	0.1	78.1	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
166	3	3	18.50	22.938	31.8	0.0	6.3	19.3	0.0	1.8	0.1	77.7	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
167	3	3	18.40	22.935	31.8	0.0	6.3	19.3	0.0	1.8	0.1	77.3	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
168	3	3	18.30	22.931	31.8	0.0	6.3	19.3	0.0	1.8	0.1	76.9	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
169	3	3	18.20	22.927	31.8	0.0	6.4	19.3	0.0	1.8	0.1	76.5	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
170	3	3	18.10	22.923	31.8	0.0	6.4	19.2	0.0	1.8	0.1	76.2	0.4	1.77	90.0	0.144	0.144	7.3	0.788	0.09	0.00	0.00	0.00	0.37	3.15
171	3	3	18.00	22.919	31.8	0.0	6.4	19.2	0.0	1.8	0.1	75.8	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
172	3	3	17.90	22.915	31.8	0.0	6.5	19.2	0.0	1.8	0.1	75.4	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
173	3	3	17.80	22.912	31.8	0.0	6.5	19.2	0.0	1.8	0.1	75.0	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
174	3	3	17.70	22.908	31.8	0.0	6.5	19.2	0.0	1.8	0.1	74.6	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
175	3	3	17.60	22.904	31.8	0.0	6.5	19.2	0.0	1.8	0.1	74.2	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
176	3	3	17.50	22.900	31.8	0.0	6.6	19.1	0.0	1.8	0.1	73.8	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
177	3	3	17.40	22.896	31.8	0.0	6.6	19.1	0.0	1.8	0.1	73.5	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15

178	3	3	17.30	22.892	31.8	0.0	6.6	19.1	0.0	1.8	0.1	73.1	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
179	3	3	17.20	22.888	31.8	0.0	6.6	19.1	0.0	1.8	0.1	72.7	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
180	3	3	17.10	22.885	31.8	0.0	6.7	19.1	0.0	1.8	0.1	72.3	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
181	3	3	17.00	22.881	31.8	0.0	6.7	19.1	0.0	1.8	0.1	71.9	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
182	3	3	16.90	22.877	31.8	0.0	6.7	19.0	0.0	1.8	0.1	71.5	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
183	3	3	16.80	22.873	31.8	0.0	6.7	19.0	0.0	1.8	0.1	71.2	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
184	3	3	16.70	22.869	31.8	0.0	6.8	19.0	0.0	1.8	0.1	70.8	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
185	3	3	16.60	22.865	31.8	0.0	6.8	19.0	0.0	1.8	0.1	70.4	0.4	1.77	90.0	0.144	0.144	7.3	0.787	0.09	0.00	0.00	0.00	0.37	3.15
186	3	3	16.50	22.862	31.8	0.0	6.8	19.0	0.0	1.8	0.1	70.0	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
187	3	3	16.40	22.858	31.8	0.0	6.8	19.0	0.0	1.8	0.1	69.6	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
188	3	3	16.30	22.854	31.8	0.0	6.9	18.9	0.0	1.8	0.1	69.2	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
189	3	3	16.20	22.850	31.8	0.0	6.9	18.9	0.0	1.8	0.1	68.8	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
190	3	3	16.10	22.846	31.8	0.0	6.9	18.9	0.0	1.8	0.1	68.5	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
191	3	3	16.00	22.842	31.8	0.0	6.9	18.9	0.0	1.8	0.1	68.1	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
192	3	3	15.90	22.838	31.8	0.0	6.9	18.9	0.0	1.8	0.1	67.7	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
193	3	3	15.80	22.835	31.8	0.0	7.0	18.9	0.0	1.8	0.1	67.3	0.4	1.77	90.0	0.144	0.144	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
194	3	3	15.70	22.831	31.8	0.0	7.0	18.8	0.0	1.8	0.1	66.9	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
195	3	3	15.60	22.827	31.8	0.0	7.0	18.8	0.0	1.8	0.1	66.5	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
196	3	3	15.50	22.823	31.8	0.0	7.0	18.8	0.0	1.8	0.1	66.2	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
197	3	3	15.40	22.819	31.8	0.0	7.0	18.8	0.0	1.8	0.1	65.8	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
198	3	3	15.30	22.815	31.8	0.0	7.0	18.8	0.0	1.8	0.1	65.4	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
199	3	3	15.20	22.812	31.8	0.0	7.1	18.8	0.0	1.8	0.1	65.0	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
200	3	3	15.10	22.808	31.8	0.0	7.1	18.7	0.0	1.8	0.1	64.6	0.4	1.77	90.0	0.143	0.143	7.3	0.786	0.09	0.00	0.00	0.00	0.37	3.15
201	3	3	15.00	22.804	31.8	0.0	7.1	18.7	0.0	1.8	0.1	64.2	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.37	3.15
202	3	3	14.90	22.800	31.8	0.0	7.1	18.7	0.0	1.8	0.1	63.8	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
203	3	3	14.80	22.796	31.8	0.0	7.1	18.7	0.0	1.8	0.1	63.5	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
204	3	3	14.70	22.792	31.8	0.0	7.1	18.7	0.0	1.8	0.1	63.1	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
205	3	3	14.60	22.788	31.8	0.0	7.2	18.7	0.0	1.8	0.1	62.7	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
206	3	3	14.50	22.785	31.8	0.0	7.2	18.6	0.0	1.8	0.1	62.3	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
207	3	3	14.40	22.781	31.8	0.0	7.2	18.6	0.0	1.8	0.1	61.9	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
208	3	3	14.30	22.777	31.8	0.0	7.2	18.6	0.0	1.8	0.1	61.5	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
209	3	3	14.20	22.773	31.8	0.0	7.2	18.6	0.0	1.8	0.1	61.2	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
210	3	3	14.10	22.769	31.8	0.0	7.2	18.6	0.0	1.8	0.1	60.8	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
211	3	3	14.00	22.765	31.8	0.0	7.2	18.6	0.0	1.8	0.1	60.4	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
212	3	3	13.90	22.762	31.8	0.0	7.2	18.5	0.0	1.8	0.1	60.0	0.4	1.77	90.0	0.143	0.143	7.3	0.785	0.09	0.00	0.00	0.00	0.38	3.15
WASTELOAD # 213 (TRIB 2 INFLOW) ENTERS HERE																									
213	4	4	13.80	25.022	31.8	0.0	7.0	17.1	0.0	1.8	0.1	59.5	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
214	4	4	13.70	25.017	31.8	0.0	7.0	17.1	0.0	1.8	0.1	59.0	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
215	4	4	13.60	25.012	31.8	0.0	7.0	17.1	0.0	1.8	0.1	58.5	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
216	4	4	13.50	25.007	31.8	0.0	7.0	17.1	0.0	1.8	0.1	58.0	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
217	4	4	13.40	25.002	31.8	0.0	7.0	17.1	0.0	1.8	0.1	57.5	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
218	4	4	13.30	24.997	31.8	0.0	7.1	17.0	0.0	1.8	0.1	57.0	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
219	4	4	13.20	24.992	31.8	0.0	7.1	17.0	0.0	1.8	0.1	56.5	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	NH3 SETT	NH3 DECA	SETT DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	g/m²/d
220	4	4	13.10	24.987	31.8	0.0	7.1	17.0	0.0	1.8	0.1	56.0	0.3	1.77	155.0	0.091	0.091	7.3	0.627	0.09	0.00	0.00	0.00	0.37	3.15
221	4	4	13.00	24.982	31.8	0.0	7.1	17.0	0.0	1.8	0.1	55.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
222	4	4	12.90	24.977	31.8	0.0	7.1	17.0	0.0	1.8	0.1	55.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15

223	4	4	12.80	24.972	31.8	0.0	7.2	16.9	0.0	1.8	0.1	54.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
224	4	4	12.70	24.967	31.8	0.0	7.2	16.9	0.0	1.8	0.1	54.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
225	4	4	12.60	24.962	31.8	0.0	7.2	16.9	0.0	1.8	0.1	53.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
226	4	4	12.50	24.957	31.8	0.0	7.2	16.9	0.0	1.8	0.1	53.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
227	4	4	12.40	24.952	31.8	0.0	7.2	16.8	0.0	1.8	0.1	52.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
228	4	4	12.30	24.947	31.8	0.0	7.2	16.8	0.0	1.8	0.1	52.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
229	4	4	12.20	24.942	31.8	0.0	7.2	16.8	0.0	1.8	0.1	51.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
230	4	4	12.10	24.937	31.8	0.0	7.2	16.8	0.0	1.8	0.1	51.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
231	4	4	12.00	24.932	31.8	0.0	7.3	16.8	0.0	1.8	0.1	50.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
232	4	4	11.90	24.927	31.8	0.0	7.3	16.7	0.0	1.8	0.1	50.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
233	4	4	11.80	24.922	31.8	0.0	7.3	16.7	0.0	1.8	0.1	49.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
234	4	4	11.70	24.917	31.8	0.0	7.3	16.7	0.0	1.8	0.1	49.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
235	4	4	11.60	24.912	31.8	0.0	7.3	16.7	0.0	1.8	0.1	48.5	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
236	4	4	11.50	24.907	31.8	0.0	7.3	16.6	0.0	1.8	0.1	48.0	0.3	1.77	155.0	0.091	0.091	7.3	0.626	0.09	0.00	0.00	0.00	0.38	3.15
237	4	4	11.40	24.902	31.8	0.0	7.3	16.6	0.0	1.8	0.1	47.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
238	4	4	11.30	24.897	31.8	0.0	7.3	16.6	0.0	1.8	0.1	47.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
239	4	4	11.20	24.892	31.8	0.0	7.3	16.6	0.0	1.8	0.1	46.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
240	4	4	11.10	24.887	31.8	0.0	7.3	16.6	0.0	1.8	0.1	46.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
241	4	4	11.00	24.882	31.8	0.0	7.3	16.5	0.0	1.8	0.1	45.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
242	4	4	10.90	24.877	31.8	0.0	7.3	16.5	0.0	1.8	0.1	45.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
243	4	4	10.80	24.872	31.8	0.0	7.4	16.5	0.0	1.8	0.1	44.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
244	4	4	10.70	24.867	31.8	0.0	7.4	16.5	0.0	1.8	0.1	44.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
245	4	4	10.60	24.862	31.8	0.0	7.4	16.5	0.0	1.8	0.1	43.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
246	4	4	10.50	24.857	31.8	0.0	7.4	16.4	0.0	1.8	0.1	43.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
247	4	4	10.40	24.852	31.8	0.0	7.4	16.4	0.0	1.8	0.1	42.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
248	4	4	10.30	24.847	31.8	0.0	7.4	16.4	0.0	1.8	0.1	42.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
249	4	4	10.20	24.842	31.8	0.0	7.4	16.4	0.0	1.8	0.1	41.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
250	4	4	10.10	24.837	31.8	0.0	7.4	16.3	0.0	1.8	0.1	41.0	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
251	4	4	10.00	24.832	31.8	0.0	7.4	16.3	0.0	1.8	0.1	40.5	0.3	1.77	155.0	0.091	0.091	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.15
252	4	4	9.90	24.827	31.8	0.0	7.4	16.3	0.0	1.8	0.1	40.0	0.3	1.77	155.0	0.091	0.091	7.3	0.624	0.09	0.00	0.00	0.00	0.38	3.15
DIVERSION # 253 (TRIB 3 OUTFLOW) LEAVES HERE																									
253	5	5	9.80	5.483	31.8	0.0	7.4	16.3	0.0	1.8	0.1	39.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
254	5	5	9.70	5.480	31.8	0.0	7.4	16.2	0.0	1.8	0.1	39.5	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
255	5	5	9.60	5.477	31.8	0.0	7.4	16.2	0.0	1.8	0.1	39.2	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
256	5	5	9.50	5.474	31.8	0.0	7.4	16.1	0.0	1.7	0.1	39.0	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
257	5	5	9.40	5.471	31.8	0.0	7.4	16.1	0.0	1.7	0.1	38.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
258	5	5	9.30	5.467	31.8	0.0	7.3	16.0	0.0	1.7	0.1	38.5	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
259	5	5	9.20	5.464	31.8	0.0	7.3	16.0	0.0	1.7	0.1	38.2	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
260	5	5	9.10	5.461	31.8	0.0	7.3	15.9	0.0	1.7	0.1	38.0	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
261	5	5	9.00	5.458	31.8	0.0	7.3	15.9	0.0	1.7	0.1	37.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
262	5	5	8.90	5.455	31.8	0.0	7.3	15.8	0.0	1.7	0.1	37.5	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
263	5	5	8.80	5.451	31.8	0.0	7.3	15.7	0.0	1.7	0.1	37.2	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
264	5	5	8.70	5.448	31.8	0.0	7.3	15.7	0.0	1.7	0.1	37.0	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
265	5	5	8.60	5.445	31.8	0.0	7.3	15.6	0.0	1.7	0.1	36.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
266	5	5	8.50	5.442	31.8	0.0	7.3	15.6	0.0	1.7	0.1	36.4	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
267	5	5	8.40	5.439	31.8	0.0	7.3	15.5	0.0	1.7	0.1	36.2	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
268	5	5	8.30	5.436	31.8	0.0	7.3	15.5	0.0	1.7	0.1	35.9	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
269	5	5	8.20	5.432	31.8	0.0	7.3	15.4	0.0	1.7	0.1	35.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
270	5	5	8.10	5.429	31.8	0.0	7.3	15.4	0.0	1.7	0.1	35.4	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
271	5	5	8.00	5.426	31.8	0.0	7.2	15.3	0.0	1.7	0.1	35.2	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15

272	5	5	7.90	5.423	31.8	0.0	7.2	15.3	0.0	1.7	0.1	34.9	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
273	5	5	7.80	5.420	31.8	0.0	7.2	15.2	0.0	1.7	0.1	34.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
274	5	5	7.70	5.417	31.8	0.0	7.2	15.2	0.0	1.7	0.1	34.4	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
275	5	5	7.60	5.413	31.8	0.0	7.2	15.1	0.0	1.7	0.1	34.2	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
276	5	5	7.50	5.410	31.8	0.0	7.2	15.1	0.0	1.7	0.1	33.9	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
277	5	5	7.40	5.407	31.8	0.0	7.2	15.0	0.0	1.7	0.1	33.7	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
278	5	5	7.30	5.404	31.8	0.0	7.2	15.0	0.0	1.7	0.1	33.4	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
279	5	5	7.20	5.401	31.8	0.0	7.2	14.9	0.0	1.7	0.1	33.1	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
280	5	5	7.10	5.398	31.8	0.0	7.1	14.9	0.0	1.7	0.1	32.9	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
281	5	5	7.00	5.394	31.8	0.0	7.1	14.8	0.0	1.7	0.1	32.6	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
282	5	5	6.90	5.391	31.8	0.0	7.1	14.8	0.0	1.7	0.1	32.4	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.38	3.15
283	5	5	6.80	5.388	31.8	0.0	7.1	14.7	0.0	1.7	0.1	32.1	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
284	5	5	6.70	5.385	31.8	0.0	7.1	14.7	0.0	1.7	0.1	31.9	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
285	5	5	6.60	5.382	31.8	0.0	7.1	14.6	0.0	1.7	0.1	31.6	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
286	5	5	6.50	5.378	31.8	0.0	7.0	14.6	0.0	1.7	0.1	31.4	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
287	5	5	6.40	5.375	31.8	0.0	7.0	14.5	0.0	1.7	0.1	31.1	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
288	5	5	6.30	5.372	31.8	0.0	7.0	14.5	0.0	1.7	0.1	30.9	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
289	5	5	6.20	5.369	31.8	0.0	7.0	14.4	0.0	1.7	0.1	30.6	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
290	5	5	6.10	5.366	31.8	0.0	7.0	14.4	0.0	1.7	0.1	30.3	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
291	5	5	6.00	5.363	31.8	0.0	7.0	14.3	0.0	1.7	0.1	30.1	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
292	5	5	5.90	5.359	31.8	0.0	6.9	14.3	0.0	1.7	0.1	29.8	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15

EXPANDED CAPSULE SUMMARY FOR Bayou Chene

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	NH3 SETT	DECA SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
293	5	5	5.80	5.356	31.8	0.0	6.9	14.2	0.0	1.7	0.1	29.6	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
294	5	5	5.70	5.353	31.8	0.0	6.9	14.2	0.0	1.7	0.1	29.3	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
295	5	5	5.60	5.350	31.8	0.0	6.9	14.1	0.0	1.7	0.1	29.1	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
296	5	5	5.50	5.347	31.8	0.0	6.9	14.1	0.0	1.7	0.1	28.8	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
297	5	5	5.40	5.344	31.8	0.0	6.9	14.0	0.0	1.7	0.1	28.6	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
298	5	5	5.30	5.340	31.8	0.0	6.8	14.0	0.0	1.7	0.1	28.3	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
299	5	5	5.20	5.337	31.8	0.0	6.8	13.9	0.0	1.7	0.1	28.1	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
300	5	5	5.10	5.334	31.8	0.0	6.8	13.9	0.0	1.7	0.1	27.8	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
301	5	5	5.00	5.331	31.8	0.0	6.8	13.8	0.0	1.7	0.1	27.6	0.3	1.77	90.0	0.034	0.034	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
302	5	5	4.90	5.328	31.8	0.0	6.8	13.8	0.0	1.7	0.1	27.3	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
303	5	5	4.80	5.324	31.8	0.0	6.7	13.7	0.0	1.7	0.1	27.0	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
304	5	5	4.70	5.321	31.8	0.0	6.7	13.7	0.0	1.7	0.1	26.8	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
305	5	5	4.60	5.318	31.8	0.0	6.7	13.6	0.0	1.6	0.1	26.5	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
306	5	5	4.50	5.315	31.8	0.0	6.7	13.6	0.0	1.6	0.1	26.3	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
307	5	5	4.40	5.312	31.8	0.0	6.6	13.6	0.0	1.6	0.1	26.0	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
308	5	5	4.30	5.309	31.8	0.0	6.6	13.5	0.0	1.6	0.1	25.8	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
309	5	5	4.20	5.305	31.8	0.0	6.6	13.5	0.0	1.6	0.1	25.5	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
310	5	5	4.10	5.302	31.8	0.0	6.6	13.4	0.0	1.6	0.1	25.3	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
311	5	5	4.00	5.299	31.8	0.0	6.6	13.4	0.0	1.6	0.1	25.0	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
312	5	5	3.90	5.296	31.8	0.0	6.5	13.3	0.0	1.6	0.1	24.8	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
313	5	5	3.80	5.293	31.8	0.0	6.5	13.3	0.0	1.6	0.1	24.5	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
314	5	5	3.70	5.290	31.8	0.0	6.5	13.2	0.0	1.6	0.1	24.3	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
315	5	5	3.60	5.286	31.8	0.0	6.5	13.2	0.0	1.6	0.1	24.0	0.3	1.77	90.0	0.033	0.033	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.15
316	6	6	3.50	5.280	31.8	0.0	6.4	13.1	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.16
317	6	6	3.40	5.273	31.8	0.0	6.4	13.1	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.491	0.09	0.00	0.00	0.00	0.37	3.16

318	6	6	3.30	5.266	31.8	0.0	6.4	13.0	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.16
319	6	6	3.20	5.260	31.9	0.0	6.4	13.0	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.17
320	6	6	3.10	5.253	31.9	0.0	6.3	12.9	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.17
321	6	6	3.00	5.246	31.9	0.0	6.3	12.9	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.17
322	6	6	2.90	5.240	31.9	0.0	6.3	12.8	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.18
323	6	6	2.80	5.233	31.9	0.0	6.3	12.7	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.18
324	6	6	2.70	5.226	31.9	0.0	6.2	12.7	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.492	0.09	0.00	0.00	0.00	0.37	3.18
325	6	6	2.60	5.220	32.0	0.0	6.2	12.6	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.19
326	6	6	2.50	5.213	32.0	0.0	6.2	12.6	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.19
327	6	6	2.40	5.206	32.0	0.0	6.2	12.5	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.19
328	6	6	2.30	5.200	32.0	0.0	6.1	12.5	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.20
329	6	6	2.20	5.193	32.0	0.0	6.1	12.4	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.20
330	6	6	2.10	5.186	32.0	0.0	6.1	12.4	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.20
331	6	6	2.00	5.180	32.1	0.0	6.1	12.3	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.493	0.09	0.00	0.00	0.00	0.37	3.21
332	6	6	1.90	5.173	32.1	0.0	6.1	12.2	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.21
333	6	6	1.80	5.166	32.1	0.0	6.0	12.2	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.21
334	6	6	1.70	5.160	32.1	0.0	6.0	12.1	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.027	0.027	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.22
335	6	6	1.60	5.153	32.1	0.0	6.0	12.1	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.22
336	6	6	1.50	5.146	32.1	0.0	6.0	12.0	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.22
337	6	6	1.40	5.140	32.2	0.0	6.0	12.0	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.37	3.23
338	6	6	1.30	5.133	32.2	0.0	6.0	11.9	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.38	3.23
339	6	6	1.20	5.126	32.2	0.0	5.9	11.9	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.494	0.09	0.00	0.00	0.00	0.38	3.23
340	6	6	1.10	5.120	32.2	0.0	5.9	11.8	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.24
341	6	6	1.00	5.113	32.2	0.0	5.9	11.8	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.24
342	6	6	0.90	5.106	32.2	0.0	5.9	11.7	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.24
343	6	6	0.80	5.100	32.3	0.0	5.9	11.7	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.25
344	6	6	0.70	5.093	32.3	0.0	5.9	11.6	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.25
345	6	6	0.60	5.086	32.3	0.0	5.9	11.3	0.0	1.6	0.1	24.0	0.4	1.77	110.0	0.026	0.026	7.3	0.495	0.09	0.00	0.00	0.00	0.38	3.25
TRIBUTARY # 346 (Station 935) ENTERS HERE																										
526	17	17	0.50	8.810	32.3	0.0	6.1	9.4	0.0	1.9	0.1	24.0	0.5	1.40	88.0	0.071	0.071	7.3	0.792	0.09	0.00	0.00	0.00	0.38	3.25
527	17	17	0.40	8.810	32.3	0.0	6.1	9.4	0.0	1.9	0.1	24.0	0.5	1.40	88.0	0.071	0.071	7.3	0.791	0.09	0.00	0.00	0.00	0.38	3.25
528	17	17	0.30	8.810	32.2	0.0	6.1	9.4	0.0	1.9	0.1	24.0	0.5	1.40	88.0	0.071	0.071	7.3	0.791	0.09	0.00	0.00	0.00	0.38	3.24
529	17	17	0.20	8.810	32.2	0.0	6.1	9.3	0.0	1.9	0.1	24.0	0.5	1.40	88.0	0.071	0.071	7.3	0.791	0.09	0.00	0.00	0.00	0.38	3.24
530	17	17	0.10	8.810	32.2	0.0	6.1	9.3	0.0	1.9	0.1	24.0	0.5	1.40	88.0	0.071	0.071	7.3	0.791	0.09	0.00	0.00	0.00	0.38	3.24
531	17	17	0.00	8.810	32.2	0.0	6.1	8.4	0.0	1.7	0.1	24.0	0.5	1.40	88.0	0.071	0.071	7.3	0.790	0.09	0.00	0.00	0.00	0.38	3.23

EXPANDED CAPSULE SUMMARY FOR Station 935

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	ADVEC DEPTH	MEAN WIDTH	DO VELO	REAER VELO	BOD1 SAT	BOD1 RATE	BOD2 DECA	BOD2 SETT	NH3 DECA	NH3 SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
346	7	7	17.90	0.113	31.5	0.0	4.7	3.2	0.0	0.9	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.09
347	7	7	17.80	0.113	31.5	0.0	4.7	3.1	0.0	0.9	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.09
348	7	7	17.70	0.113	31.4	0.0	4.8	2.9	0.0	0.9	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.08
349	7	7	17.60	0.113	31.4	0.0	4.8	2.8	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.488	0.08	0.00	0.00	0.00	0.23	3.08
350	7	7	17.50	0.113	31.4	0.0	4.8	2.6	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.488	0.08	0.00	0.00	0.00	0.22	3.07
351	7	7	17.40	0.113	31.4	0.0	4.8	2.5	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.488	0.08	0.00	0.00	0.00	0.22	3.07
352	7	7	17.30	0.113	31.3	0.0	4.9	2.4	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.487	0.08	0.00	0.00	0.00	0.22	3.06
353	7	7	17.20	0.113	31.3	0.0	4.9	2.3	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.487	0.08	0.00	0.00	0.00	0.22	3.06
354	7	7	17.10	0.113	31.3	0.0	4.9	2.1	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.487	0.08	0.00	0.00	0.00	0.22	3.06
355	7	7	17.00	0.113	31.3	0.0	4.9	2.0	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.487	0.08	0.00	0.00	0.00	0.22	3.05
356	7	7	16.90	0.113	31.2	0.0	5.0	1.9	0.0	0.8	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.487	0.08	0.00	0.00	0.00	0.22	3.05

357	7	7	16.80	0.113	31.2	0.0	5.0	1.8	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.486	0.08	0.00	0.00	0.00	0.22	3.04
358	7	7	16.70	0.113	31.2	0.0	5.0	1.7	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.486	0.08	0.00	0.00	0.00	0.22	3.04
359	7	7	16.60	0.113	31.2	0.0	5.1	1.7	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.486	0.08	0.00	0.00	0.00	0.22	3.03
360	7	7	16.50	0.113	31.2	0.0	5.1	1.6	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.486	0.08	0.00	0.00	0.00	0.22	3.03
361	7	7	16.40	0.113	31.1	0.0	5.1	1.5	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.486	0.08	0.00	0.00	0.00	0.22	3.02
362	7	7	16.30	0.113	31.1	0.0	5.1	1.4	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.02
363	7	7	16.20	0.113	31.1	0.0	5.1	1.3	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.02
364	7	7	16.10	0.113	31.1	0.0	5.2	1.3	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.01
365	7	7	16.00	0.113	31.0	0.0	5.2	1.2	0.0	0.7	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.01
366	7	7	15.90	0.113	31.0	0.0	5.2	1.2	0.0	0.6	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.00
367	7	7	15.80	0.113	31.0	0.0	5.2	1.1	0.0	0.6	0.1	10.0	0.0	1.77	35.0	0.002	0.002	7.4	0.485	0.08	0.00	0.00	0.00	0.22	3.00
368	8	8	15.70	0.284	31.0	0.0	7.0	2.7	0.0	0.7	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
369	8	8	15.60	0.455	31.0	0.0	7.0	2.9	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
370	8	8	15.50	0.626	31.0	0.0	7.0	2.9	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
371	8	8	15.40	0.797	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
372	8	8	15.30	0.967	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
373	8	8	15.20	1.138	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
374	8	8	15.10	1.309	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
375	8	8	15.00	1.480	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
376	8	8	14.90	1.651	31.0	0.0	7.0	3.0	0.0	0.8	0.1	10.0	0.0	1.772	131.0	0.000	0.000	7.4	0.644	0.08	0.00	0.00	0.00	0.23	1.20
377	9	9	14.80	1.804	31.0	0.0	6.3	3.6	0.0	1.1	0.1	11.2	0.0	1.77	983.0	0.001	0.001	7.4	0.644	0.08	0.00	0.00	0.00	0.23	3.01
378	9	9	14.70	1.957	31.1	0.0	6.0	4.0	0.0	1.3	0.1	12.3	0.0	1.77	983.0	0.001	0.001	7.4	0.645	0.08	0.00	0.00	0.00	0.23	3.01
379	9	9	14.60	2.110	31.1	0.0	5.8	4.3	0.0	1.4	0.1	13.5	0.0	1.77	983.0	0.001	0.001	7.4	0.645	0.08	0.00	0.00	0.00	0.23	3.02
WASTELOAD # 380 (TRIB 4 OUTFLOW) ENTERS HERE WITHOUT ANY FLOW																										
380	9	9	14.50	2.263	31.2	0.0	5.8	4.6	0.0	1.5	0.1	14.6	0.0	1.77	983.0	0.001	0.001	7.4	0.645	0.08	0.00	0.00	0.00	0.23	3.03
381	9	9	14.40	2.415	31.2	0.0	5.8	4.8	0.0	1.6	0.1	15.8	0.0	1.77	983.0	0.001	0.001	7.4	0.646	0.08	0.00	0.00	0.00	0.23	3.04
382	9	9	14.30	2.568	31.2	0.0	5.8	4.9	0.0	1.7	0.1	16.9	0.0	1.77	983.0	0.001	0.001	7.4	0.646	0.08	0.00	0.00	0.00	0.23	3.04
383	9	9	14.20	2.721	31.3	0.0	5.9	5.1	0.0	1.8	0.1	18.1	0.0	1.77	983.0	0.002	0.002	7.4	0.647	0.08	0.00	0.00	0.00	0.23	3.05
384	9	9	14.10	2.874	31.3	0.0	6.0	5.2	0.0	1.9	0.1	19.2	0.0	1.77	983.0	0.002	0.002	7.4	0.647	0.08	0.00	0.00	0.00	0.23	3.06
385	9	9	14.00	3.027	31.3	0.0	6.0	5.2	0.0	1.9	0.1	20.4	0.0	1.77	983.0	0.002	0.002	7.4	0.648	0.08	0.00	0.00	0.00	0.23	3.06
386	9	9	13.90	3.180	31.4	0.0	6.1	5.3	0.0	2.0	0.2	21.5	0.0	1.77	983.0	0.002	0.002	7.4	0.648	0.08	0.00	0.00	0.00	0.24	3.07
387	9	9	13.80	3.333	31.4	0.0	6.2	5.4	0.0	2.0	0.2	22.7	0.0	1.77	983.0	0.002	0.002	7.4	0.648	0.08	0.00	0.00	0.00	0.24	3.08
388	9	9	13.70	3.486	31.5	0.0	6.3	5.4	0.0	2.0	0.2	23.8	0.0	1.77	983.0	0.002	0.002	7.4	0.649	0.08	0.00	0.00	0.00	0.24	3.09
389	9	9	13.60	3.639	31.5	0.0	6.4	5.4	0.0	2.1	0.2	25.0	0.0	1.77	983.0	0.002	0.002	7.4	0.649	0.08	0.00	0.00	0.00	0.24	3.09
390	10	10	13.50	3.639	31.5	0.0	6.3	5.5	0.0	2.0	0.2	26.4	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
391	10	10	13.40	3.639	31.5	0.0	6.2	5.5	0.0	2.0	0.2	27.9	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
392	10	10	13.30	3.639	31.5	0.0	6.1	5.5	0.0	2.0	0.2	29.3	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
393	10	10	13.20	3.639	31.5	0.0	6.0	5.6	0.0	2.0	0.2	30.8	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
394	10	10	13.10	3.639	31.5	0.0	6.0	5.6	0.0	2.0	0.2	32.2	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.36	5.78
395	10	10	13.00	3.639	31.5	0.0	5.9	5.6	0.0	2.0	0.2	33.7	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
396	10	10	12.90	3.639	31.5	0.0	5.9	5.6	0.0	2.0	0.2	35.1	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
397	10	10	12.80	3.639	31.5	0.0	5.9	5.7	0.0	1.9	0.2	36.6	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
398	10	10	12.70	3.639	31.5	0.0	5.8	5.7	0.0	1.9	0.2	38.0	0.0	1.77	148.0	0.014	0.014	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
399	11	11	12.60	3.639	31.5	0.0	5.8	5.7	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
400	11	11	12.50	3.639	31.5	0.0	5.8	5.7	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
401	11	11	12.40	3.639	31.5	0.0	5.8	5.7	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
402	11	11	12.30	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
403	11	11	12.20	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
404	11	11	12.10	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
405	11	11	12.00	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78

406	11	11	11.90	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
407	11	11	11.80	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
408	11	11	11.70	3.639	31.5	0.0	5.8	5.8	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
409	11	11	11.60	3.639	31.5	0.0	5.8	5.9	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
410	11	11	11.50	3.639	31.5	0.0	5.8	5.9	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
411	11	11	11.40	3.639	31.5	0.0	5.8	5.9	0.0	1.9	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
412	11	11	11.30	3.639	31.5	0.0	5.8	5.9	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
413	11	11	11.20	3.639	31.5	0.0	5.8	5.9	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
414	11	11	11.10	3.639	31.5	0.0	5.8	5.9	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
415	11	11	11.00	3.639	31.5	0.0	5.7	5.9	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
416	11	11	10.90	3.639	31.5	0.0	5.7	5.9	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
417	11	11	10.80	3.639	31.5	0.0	5.7	6.0	0.0	1.8	0.1	38.0	0.3	1.77	61.0	0.034	0.034	7.4	0.489	0.08	0.00	0.00	0.00	0.35	5.78
418	12	12	10.70	3.639	31.5	0.0	5.7	6.0	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78

EXPANDED CAPSULE SUMMARY FOR Station 935

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	BOD2 SETT	NH3 DECA	NH3 SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
419	12	12	10.60	3.639	31.5	0.0	5.7	6.0	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
420	12	12	10.50	3.639	31.5	0.0	5.7	6.0	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
421	12	12	10.40	3.639	31.5	0.0	5.6	6.1	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
422	12	12	10.30	3.639	31.5	0.0	5.6	6.1	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
423	12	12	10.20	3.639	31.5	0.0	5.6	6.1	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
424	12	12	10.10	3.639	31.5	0.0	5.6	6.1	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
425	12	12	10.00	3.639	31.5	0.0	5.5	6.2	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
426	12	12	9.90	3.639	31.5	0.0	5.5	6.2	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
427	12	12	9.80	3.639	31.5	0.0	5.5	6.2	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
428	12	12	9.70	3.639	31.5	0.0	5.5	6.2	0.0	1.7	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
429	12	12	9.60	3.639	31.5	0.0	5.5	6.2	0.0	1.7	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
430	12	12	9.50	3.639	31.5	0.0	5.4	6.3	0.0	1.8	0.1	38.0	0.2	1.40	72.0	0.036	0.036	7.4	0.616	0.08	0.00	0.00	0.00	0.35	5.78
WASTELOAD # 431 (TRIB 5 INFLOW) ENTERS HERE																									
431	13	13	9.40	6.669	31.5	0.0	4.7	7.9	0.0	2.8	0.1	38.0	0.1	1.40	72.0	0.066	0.066	7.4	0.751	0.08	0.00	0.00	0.00	0.34	3.09
432	13	13	9.30	6.669	31.5	0.0	4.7	7.9	0.0	2.8	0.1	38.0	0.1	1.40	72.0	0.066	0.066	7.4	0.751	0.08	0.00	0.00	0.00	0.34	3.09
DIVERSION # 433 (TRIB 6 OUTFLOW) LEAVES HERE																									
433	14	14	9.20	3.471	31.6	0.0	4.8	7.9	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.4	0.617	0.09	0.00	0.00	0.00	0.34	3.11
434	14	14	9.10	3.473	31.6	0.0	4.8	7.9	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.4	0.618	0.09	0.00	0.00	0.00	0.34	3.12
435	14	14	9.00	3.475	31.7	0.0	4.9	7.9	0.0	2.8	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.3	0.618	0.09	0.00	0.00	0.00	0.35	3.13
436	14	14	8.90	3.477	31.8	0.0	4.9	7.9	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.3	0.619	0.09	0.00	0.00	0.00	0.35	3.15
437	14	14	8.80	3.479	31.8	0.0	5.0	7.8	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.3	0.620	0.09	0.00	0.00	0.00	0.35	3.16
438	14	14	8.70	3.482	31.9	0.0	5.0	7.8	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.3	0.620	0.09	0.00	0.00	0.00	0.35	3.17
439	14	14	8.60	3.484	32.0	0.0	5.1	7.8	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.035	0.035	7.3	0.621	0.09	0.00	0.00	0.00	0.36	3.19
440	14	14	8.50	3.486	32.0	0.0	5.1	7.8	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.036	0.036	7.3	0.622	0.09	0.00	0.00	0.00	0.36	3.20
441	14	14	8.40	3.488	32.1	0.0	5.2	7.8	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.036	0.036	7.3	0.622	0.09	0.00	0.00	0.00	0.36	3.21
442	14	14	8.30	3.490	32.2	0.0	5.2	7.7	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.036	0.036	7.3	0.623	0.09	0.00	0.00	0.00	0.37	3.23
443	14	14	8.20	3.492	32.2	0.0	5.3	7.7	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.036	0.036	7.3	0.624	0.09	0.00	0.00	0.00	0.37	3.24
444	14	14	8.10	3.494	32.3	0.0	5.3	7.7	0.0	2.7	0.1	38.0	0.1	1.40	70.0	0.036	0.036	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
445	15	15	8.00	3.497	32.3	0.0	5.4	7.7	0.0	2.7	0.1	37.9	0.1	1.40	65.0	0.038	0.038	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
446	15	15	7.90	3.500	32.3	0.0	5.4	7.7	0.0	2.7	0.1	37.8	0.1	1.40	65.0	0.038	0.038	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
447	15	15	7.80	3.503	32.3	0.0	5.4	7.6	0.0	2.7	0.1	37.7	0.1	1.40	65.0	0.038	0.038	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
448	15	15	7.70	3.505	32.3	0.0	5.5	7.6	0.0	2.7	0.1	37.6	0.1	1.40	65.0	0.038	0.038	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
449	15	15	7.60	3.508	32.3	0.0	5.5	7.6	0.0	2.7	0.1	37.5	0.1	1.40	65.0	0.038	0.038	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25

450	15	15	7.50	3.511	32.3	0.0	5.5	7.6	0.0	2.7	0.1	37.3	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
451	15	15	7.40	3.514	32.3	0.0	5.6	7.6	0.0	2.7	0.1	37.2	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
452	15	15	7.30	3.517	32.3	0.0	5.6	7.6	0.0	2.7	0.1	37.1	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
453	15	15	7.20	3.519	32.3	0.0	5.6	7.5	0.0	2.7	0.1	37.0	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.37	3.25
454	15	15	7.10	3.522	32.3	0.0	5.7	7.5	0.0	2.7	0.1	36.9	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
455	15	15	7.00	3.525	32.3	0.0	5.7	7.5	0.0	2.7	0.1	36.8	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
456	15	15	6.90	3.528	32.3	0.0	5.7	7.5	0.0	2.7	0.1	36.7	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
457	15	15	6.80	3.531	32.3	0.0	5.8	7.5	0.0	2.7	0.1	36.6	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
458	15	15	6.70	3.533	32.3	0.0	5.8	7.4	0.0	2.7	0.1	36.5	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
459	15	15	6.60	3.536	32.3	0.0	5.8	7.4	0.0	2.7	0.1	36.4	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
460	15	15	6.50	3.539	32.3	0.0	5.8	7.4	0.0	2.7	0.1	36.2	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
461	15	15	6.40	3.542	32.3	0.0	5.9	7.4	0.0	2.7	0.1	36.1	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
462	15	15	6.30	3.545	32.3	0.0	5.9	7.4	0.0	2.7	0.1	36.0	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
463	15	15	6.20	3.547	32.3	0.0	5.9	7.4	0.0	2.7	0.1	35.9	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
464	15	15	6.10	3.550	32.3	0.0	5.9	7.3	0.0	2.7	0.1	35.8	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
465	15	15	6.00	3.553	32.3	0.0	6.0	7.3	0.0	2.6	0.1	35.7	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
466	15	15	5.90	3.556	32.3	0.0	6.0	7.3	0.0	2.6	0.1	35.6	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
467	15	15	5.80	3.559	32.3	0.0	6.0	7.3	0.0	2.6	0.1	35.5	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
468	15	15	5.70	3.561	32.3	0.0	6.0	7.3	0.0	2.6	0.1	35.4	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
469	15	15	5.60	3.564	32.3	0.0	6.1	7.3	0.0	2.6	0.1	35.3	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
470	15	15	5.50	3.567	32.3	0.0	6.1	7.2	0.0	2.6	0.1	35.2	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
471	15	15	5.40	3.570	32.3	0.0	6.1	7.2	0.0	2.6	0.1	35.0	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
472	15	15	5.30	3.572	32.3	0.0	6.1	7.2	0.0	2.6	0.1	34.9	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
473	15	15	5.20	3.575	32.3	0.0	6.1	7.2	0.0	2.6	0.1	34.8	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
474	15	15	5.10	3.578	32.3	0.0	6.1	7.2	0.0	2.6	0.1	34.7	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
475	15	15	5.00	3.581	32.3	0.0	6.2	7.2	0.0	2.6	0.1	34.6	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
476	15	15	4.90	3.584	32.3	0.0	6.2	7.1	0.0	2.6	0.1	34.5	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
477	15	15	4.80	3.586	32.3	0.0	6.2	7.1	0.0	2.6	0.1	34.4	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
478	15	15	4.70	3.589	32.3	0.0	6.2	7.1	0.0	2.6	0.1	34.3	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
479	15	15	4.60	3.592	32.3	0.0	6.2	7.1	0.0	2.6	0.1	34.2	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
480	15	15	4.50	3.595	32.3	0.0	6.2	7.1	0.0	2.6	0.1	34.1	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
481	15	15	4.40	3.598	32.3	0.0	6.2	7.1	0.0	2.6	0.1	33.9	0.1	1.40	65.0	0.039	0.039	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
482	15	15	4.30	3.600	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.8	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
483	15	15	4.20	3.603	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.7	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
484	15	15	4.10	3.606	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.6	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
485	15	15	4.00	3.609	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.5	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
486	15	15	3.90	3.612	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.4	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
487	15	15	3.80	3.614	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.3	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
488	15	15	3.70	3.617	32.3	0.0	6.3	7.0	0.0	2.6	0.1	33.2	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
489	15	15	3.60	3.620	32.3	0.0	6.3	6.9	0.0	2.6	0.1	33.1	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
490	15	15	3.50	3.623	32.3	0.0	6.3	6.9	0.0	2.6	0.1	33.0	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25

EXPANDED CAPSULE SUMMARY FOR Station 935

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	BOD2 SETT	NH3 DECA	NH3 SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
491	15	15	3.40	3.626	32.3	0.0	6.3	6.9	0.0	2.6	0.1	32.8	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
492	15	15	3.30	3.628	32.3	0.0	6.3	6.9	0.0	2.6	0.1	32.7	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
493	15	15	3.20	3.631	32.3	0.0	6.4	6.9	0.0	2.6	0.1	32.6	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
494	15	15	3.10	3.634	32.3	0.0	6.4	6.9	0.0	2.6	0.1	32.5	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
495	15	15	3.00	3.637	32.3	0.0	6.4	6.8	0.0	2.5	0.1	32.4	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25

496	15	15	2.90	3.640	32.3	0.0	6.4	6.8	0.0	2.5	0.1	32.3	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
497	15	15	2.80	3.642	32.3	0.0	6.4	6.8	0.0	2.5	0.1	32.2	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
498	15	15	2.70	3.645	32.3	0.0	6.4	6.8	0.0	2.5	0.1	32.1	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
499	15	15	2.60	3.648	32.3	0.0	6.4	6.8	0.0	2.5	0.1	32.0	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
500	15	15	2.50	3.651	32.3	0.0	6.4	6.8	0.0	2.5	0.1	31.9	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
501	15	15	2.40	3.653	32.3	0.0	6.4	6.8	0.0	2.5	0.1	31.8	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
502	15	15	2.30	3.656	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.6	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
503	15	15	2.20	3.659	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.5	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
504	15	15	2.10	3.662	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.4	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
505	15	15	2.00	3.665	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.3	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
506	15	15	1.90	3.667	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.2	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
507	15	15	1.80	3.670	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.1	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
508	15	15	1.70	3.673	32.3	0.0	6.4	6.7	0.0	2.5	0.1	31.0	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
509	15	15	1.60	3.676	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.9	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
510	15	15	1.50	3.679	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.8	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
511	15	15	1.40	3.681	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.7	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
512	15	15	1.30	3.684	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.5	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
513	15	15	1.20	3.687	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.4	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
514	15	15	1.10	3.690	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.3	0.1	1.40	65.0	0.040	0.040	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
515	15	15	1.00	3.693	32.3	0.0	6.4	6.6	0.0	2.5	0.1	30.2	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
516	15	15	0.90	3.695	32.3	0.0	6.4	6.5	0.0	2.5	0.1	30.1	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
517	15	15	0.80	3.698	32.3	0.0	6.4	6.5	0.0	2.5	0.1	30.0	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
518	16	16	0.70	3.701	32.3	0.0	6.4	6.5	0.0	2.5	0.1	29.2	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
519	16	16	0.60	3.705	32.3	0.0	6.4	6.5	0.0	2.5	0.1	28.5	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
520	16	16	0.50	3.708	32.3	0.0	6.4	6.5	0.0	2.5	0.1	27.8	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
521	16	16	0.40	3.711	32.3	0.0	6.4	6.5	0.0	2.5	0.1	27.0	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
522	16	16	0.30	3.714	32.3	0.0	6.4	6.5	0.0	2.5	0.1	26.2	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
523	16	16	0.20	3.717	32.3	0.0	6.4	6.5	0.0	2.5	0.1	25.5	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
524	16	16	0.10	3.720	32.3	0.0	6.4	6.4	0.0	2.5	0.1	24.8	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25
525	16	16	0.00	3.724	32.3	0.0	6.4	6.5	0.0	2.4	0.1	24.0	0.1	1.40	65.0	0.041	0.041	7.3	0.625	0.09	0.00	0.00	0.00	0.38	3.25

SPECIAL REPORT: Bayou Chene

WATER QUALITY CONSTITUENT VALUES

ELEM	ENDING	TEMP	SALN		CM-I	CM-II	DO	BOD1	BOD2	EBOD#1	EBOD#2	ORG-N	NH3-N	NO3-N	TOTN	PHOS	CHL A	MACRO	COLI	NCM
NO.	km	deg C	ppt	*	*	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	**	#/100mL	*		
1	35.000	31.22	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.26	0.00	70.2	0.0	0.	0.00	
2	34.900	31.24	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.26	0.00	70.3	0.0	0.	0.00	
3	34.800	31.25	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.25	0.00	70.5	0.0	0.	0.00	
4	34.700	31.27	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.6	0.0	0.	0.00	
5	34.600	31.29	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.8	0.0	0.	0.00	
6	34.500	31.31	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.9	0.0	0.	0.00	
7	34.400	31.33	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	71.1	0.0	0.	0.00	
8	34.300	31.35	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.24	0.00	71.2	0.0	0.	0.00	
9	34.200	31.36	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.24	0.00	71.4	0.0	0.	0.00	
10	34.100	31.38	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.5	0.0	0.	0.00	
11	34.000	31.40	0.0	0.0	0.0	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.7	0.0	0.	0.00	
12	33.900	31.42	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.8	0.0	0.	0.00	
13	33.800	31.44	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.23	0.00	72.0	0.0	0.	0.00	
14	33.700	31.45	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.23	0.00	72.1	0.0	0.	0.00	
15	33.600	31.47	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.54	2.23	0.00	72.3	0.0	0.	0.00	
16	33.500	31.49	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	72.4	0.0	0.	0.00	

17	33.400	31.51	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	72.6	0.0	0.	0.00
18	33.300	31.53	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	72.7	0.0	0.	0.00
19	33.200	31.55	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	72.9	0.0	0.	0.00
20	33.100	31.56	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	73.0	0.0	0.	0.00
21	33.000	31.58	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	73.2	0.0	0.	0.00
22	32.900	31.60	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.22	0.00	73.3	0.0	0.	0.00
23	32.800	31.62	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.22	0.00	73.5	0.0	0.	0.00
24	32.700	31.64	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	73.6	0.0	0.	0.00
25	32.600	31.65	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	73.8	0.0	0.	0.00
26	32.500	31.67	0.0	0.0	0.0	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	73.9	0.0	0.	0.00
27	32.400	31.69	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	74.1	0.0	0.	0.00
28	32.300	31.71	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.21	0.00	74.2	0.0	0.	0.00
29	32.200	31.73	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.4	0.0	0.	0.00
30	32.100	31.75	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.5	0.0	0.	0.00
31	32.000	31.76	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.7	0.0	0.	0.00
32	31.900	31.78	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.8	0.0	0.	0.00
33	31.800	31.80	0.0	0.0	0.0	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	75.0	0.0	0.	0.00
34	31.700	31.80	0.0	0.0	0.0	6.22	16.11	0.00	16.11	0.00	1.59	0.10	0.50	2.20	0.00	75.0	0.0	0.	0.00
35	31.600	31.80	0.0	0.0	0.0	6.22	16.14	0.00	16.14	0.00	1.59	0.10	0.50	2.20	0.00	75.1	0.0	0.	0.00
36	31.500	31.80	0.0	0.0	0.0	6.22	16.17	0.00	16.17	0.00	1.59	0.10	0.50	2.20	0.00	75.1	0.0	0.	0.00
37	31.400	31.80	0.0	0.0	0.0	6.22	16.20	0.00	16.20	0.00	1.60	0.10	0.50	2.20	0.00	75.2	0.0	0.	0.00
38	31.300	31.80	0.0	0.0	0.0	6.22	16.23	0.00	16.23	0.00	1.60	0.10	0.50	2.20	0.00	75.2	0.0	0.	0.00
39	31.200	31.80	0.0	0.0	0.0	6.21	16.26	0.00	16.26	0.00	1.60	0.10	0.50	2.20	0.00	75.2	0.0	0.	0.00
40	31.100	31.80	0.0	0.0	0.0	6.21	16.29	0.00	16.29	0.00	1.60	0.10	0.49	2.20	0.00	75.3	0.0	0.	0.00
41	31.000	31.80	0.0	0.0	0.0	6.21	16.32	0.00	16.32	0.00	1.60	0.10	0.49	2.20	0.00	75.3	0.0	0.	0.00
42	30.900	31.80	0.0	0.0	0.0	6.21	16.35	0.00	16.35	0.00	1.60	0.10	0.49	2.20	0.00	75.4	0.0	0.	0.00
43	30.800	31.80	0.0	0.0	0.0	6.21	16.38	0.00	16.38	0.00	1.61	0.10	0.49	2.20	0.00	75.4	0.0	0.	0.00
44	30.700	31.80	0.0	0.0	0.0	6.21	16.41	0.00	16.41	0.00	1.61	0.10	0.49	2.20	0.00	75.4	0.0	0.	0.00
45	30.600	31.80	0.0	0.0	0.0	6.21	16.44	0.00	16.44	0.00	1.61	0.10	0.48	2.20	0.00	75.5	0.0	0.	0.00
46	30.500	31.80	0.0	0.0	0.0	6.21	16.47	0.00	16.47	0.00	1.61	0.10	0.48	2.20	0.00	75.5	0.0	0.	0.00
47	30.400	31.80	0.0	0.0	0.0	6.21	16.50	0.00	16.50	0.00	1.61	0.10	0.48	2.20	0.00	75.6	0.0	0.	0.00
48	30.300	31.80	0.0	0.0	0.0	6.21	16.52	0.00	16.52	0.00	1.61	0.10	0.48	2.20	0.00	75.6	0.0	0.	0.00
49	30.200	31.80	0.0	0.0	0.0	6.20	16.55	0.00	16.55	0.00	1.62	0.10	0.48	2.20	0.00	75.6	0.0	0.	0.00
50	30.100	31.80	0.0	0.0	0.0	6.20	16.58	0.00	16.58	0.00	1.62	0.10	0.48	2.20	0.00	75.7	0.0	0.	0.00
51	30.000	31.80	0.0	0.0	0.0	6.20	16.61	0.00	16.61	0.00	1.62	0.10	0.47	2.20	0.00	75.7	0.0	0.	0.00
52	29.900	31.80	0.0	0.0	0.0	6.20	16.64	0.00	16.64	0.00	1.62	0.10	0.47	2.20	0.00	75.7	0.0	0.	0.00
53	29.800	31.80	0.0	0.0	0.0	6.20	16.67	0.00	16.67	0.00	1.62	0.10	0.47	2.20	0.00	75.8	0.0	0.	0.00
54	29.700	31.80	0.0	0.0	0.0	6.20	16.70	0.00	16.70	0.00	1.63	0.10	0.47	2.20	0.00	75.8	0.0	0.	0.00
55	29.600	31.80	0.0	0.0	0.0	6.20	16.73	0.00	16.73	0.00	1.63	0.10	0.47	2.20	0.00	75.9	0.0	0.	0.00
56	29.500	31.80	0.0	0.0	0.0	6.20	16.75	0.00	16.75	0.00	1.63	0.10	0.47	2.20	0.00	75.9	0.0	0.	0.00
57	29.400	31.80	0.0	0.0	0.0	6.20	16.78	0.00	16.78	0.00	1.63	0.10	0.46	2.20	0.00	75.9	0.0	0.	0.00
58	29.300	31.80	0.0	0.0	0.0	6.20	16.81	0.00	16.81	0.00	1.63	0.10	0.46	2.20	0.00	76.0	0.0	0.	0.00
59	29.200	31.80	0.0	0.0	0.0	6.19	16.84	0.00	16.84	0.00	1.63	0.10	0.46	2.20	0.00	76.0	0.0	0.	0.00
60	29.100	31.80	0.0	0.0	0.0	6.19	16.87	0.00	16.87	0.00	1.64	0.10	0.46	2.20	0.00	76.1	0.0	0.	0.00
61	29.000	31.80	0.0	0.0	0.0	6.19	16.90	0.00	16.90	0.00	1.64	0.10	0.46	2.19	0.00	76.1	0.0	0.	0.00
62	28.900	31.80	0.0	0.0	0.0	6.19	16.92	0.00	16.92	0.00	1.64	0.10	0.45	2.19	0.00	76.1	0.0	0.	0.00
63	28.800	31.80	0.0	0.0	0.0	6.19	16.95	0.00	16.95	0.00	1.64	0.10	0.45	2.19	0.00	76.2	0.0	0.	0.00
64	28.700	31.80	0.0	0.0	0.0	6.19	16.98	0.00	16.98	0.00	1.64	0.10	0.45	2.19	0.00	76.2	0.0	0.	0.00
65	28.600	31.80	0.0	0.0	0.0	6.19	17.01	0.00	17.01	0.00	1.64	0.10	0.45	2.19	0.00	76.3	0.0	0.	0.00
66	28.500	31.80	0.0	0.0	0.0	6.19	17.04	0.00	17.04	0.00	1.65	0.10	0.45	2.19	0.00	76.3	0.0	0.	0.00

67	28.400	31.80	0.0	0.0	0.0	6.19	17.06	0.00	17.06	0.00	1.65	0.10	0.45	2.19	0.00	76.3	0.0	0.	0.00
68	28.300	31.80	0.0	0.0	0.0	6.19	17.09	0.00	17.09	0.00	1.65	0.10	0.44	2.19	0.00	76.4	0.0	0.	0.00
69	28.200	31.80	0.0	0.0	0.0	6.18	17.12	0.00	17.12	0.00	1.65	0.10	0.44	2.19	0.00	76.4	0.0	0.	0.00
70	28.100	31.80	0.0	0.0	0.0	6.18	17.15	0.00	17.15	0.00	1.65	0.10	0.44	2.19	0.00	76.5	0.0	0.	0.00
71	28.000	31.80	0.0	0.0	0.0	6.18	17.18	0.00	17.18	0.00	1.65	0.10	0.44	2.19	0.00	76.5	0.0	0.	0.00
72	27.900	31.80	0.0	0.0	0.0	6.18	17.20	0.00	17.20	0.00	1.66	0.10	0.44	2.19	0.00	76.5	0.0	0.	0.00
73	27.800	31.80	0.0	0.0	0.0	6.18	17.23	0.00	17.23	0.00	1.66	0.10	0.44	2.19	0.00	76.6	0.0	0.	0.00
74	27.700	31.80	0.0	0.0	0.0	6.18	17.26	0.00	17.26	0.00	1.66	0.10	0.43	2.19	0.00	76.6	0.0	0.	0.00
75	27.600	31.80	0.0	0.0	0.0	6.18	17.29	0.00	17.29	0.00	1.66	0.10	0.43	2.19	0.00	76.7	0.0	0.	0.00
76	27.500	31.80	0.0	0.0	0.0	6.18	17.31	0.00	17.31	0.00	1.66	0.10	0.43	2.19	0.00	76.7	0.0	0.	0.00
77	27.400	31.80	0.0	0.0	0.0	6.18	17.34	0.00	17.34	0.00	1.66	0.10	0.43	2.19	0.00	76.7	0.0	0.	0.00
78	27.300	31.80	0.0	0.0	0.0	6.18	17.37	0.00	17.37	0.00	1.67	0.10	0.43	2.19	0.00	76.8	0.0	0.	0.00
79	27.200	31.80	0.0	0.0	0.0	6.18	17.40	0.00	17.40	0.00	1.67	0.10	0.43	2.19	0.00	76.8	0.0	0.	0.00
80	27.100	31.80	0.0	0.0	0.0	6.17	17.42	0.00	17.42	0.00	1.67	0.10	0.42	2.19	0.00	76.9	0.0	0.	0.00
81	27.000	31.80	0.0	0.0	0.0	6.17	17.45	0.00	17.45	0.00	1.67	0.10	0.42	2.19	0.00	76.9	0.0	0.	0.00
82	26.900	31.80	0.0	0.0	0.0	6.17	17.48	0.00	17.48	0.00	1.67	0.10	0.42	2.19	0.00	76.9	0.0	0.	0.00
83	26.800	31.80	0.0	0.0	0.0	6.17	17.50	0.00	17.50	0.00	1.67	0.10	0.42	2.19	0.00	77.0	0.0	0.	0.00
84	26.700	31.80	0.0	0.0	0.0	6.17	17.53	0.00	17.53	0.00	1.68	0.10	0.42	2.19	0.00	77.0	0.0	0.	0.00
85	26.600	31.80	0.0	0.0	0.0	6.17	17.56	0.00	17.56	0.00	1.68	0.10	0.41	2.19	0.00	77.0	0.0	0.	0.00
86	26.500	31.80	0.0	0.0	0.0	6.17	17.58	0.00	17.58	0.00	1.68	0.10	0.41	2.19	0.00	77.1	0.0	0.	0.00
87	26.400	31.80	0.0	0.0	0.0	6.17	17.61	0.00	17.61	0.00	1.68	0.10	0.41	2.19	0.00	77.1	0.0	0.	0.00
88	26.300	31.80	0.0	0.0	0.0	6.17	17.64	0.00	17.64	0.00	1.68	0.10	0.41	2.19	0.00	77.2	0.0	0.	0.00
89	26.200	31.80	0.0	0.0	0.0	6.17	17.66	0.00	17.66	0.00	1.68	0.10	0.41	2.19	0.00	77.2	0.0	0.	0.00
90	26.100	31.80	0.0	0.0	0.0	6.16	17.69	0.00	17.69	0.00	1.69	0.10	0.41	2.19	0.00	77.2	0.0	0.	0.00
91	26.000	31.80	0.0	0.0	0.0	6.16	17.72	0.00	17.72	0.00	1.69	0.10	0.40	2.19	0.00	77.3	0.0	0.	0.00
92	25.900	31.80	0.0	0.0	0.0	6.16	17.74	0.00	17.74	0.00	1.69	0.10	0.40	2.19	0.00	77.3	0.0	0.	0.00
93	25.800	31.80	0.0	0.0	0.0	6.16	17.77	0.00	17.77	0.00	1.69	0.10	0.40	2.19	0.00	77.4	0.0	0.	0.00
94	25.700	31.80	0.0	0.0	0.0	6.16	17.80	0.00	17.80	0.00	1.69	0.10	0.40	2.19	0.00	77.4	0.0	0.	0.00
95	25.600	31.80	0.0	0.0	0.0	6.16	17.82	0.00	17.82	0.00	1.69	0.10	0.40	2.19	0.00	77.4	0.0	0.	0.00
96	25.500	31.80	0.0	0.0	0.0	6.16	17.85	0.00	17.85	0.00	1.70	0.10	0.40	2.19	0.00	77.5	0.0	0.	0.00
97	25.400	31.80	0.0	0.0	0.0	6.16	17.88	0.00	17.88	0.00	1.70	0.10	0.39	2.19	0.00	77.5	0.0	0.	0.00
98	25.300	31.80	0.0	0.0	0.0	6.16	17.90	0.00	17.90	0.00	1.70	0.10	0.39	2.19	0.00	77.6	0.0	0.	0.00
99	25.200	31.80	0.0	0.0	0.0	6.16	17.93	0.00	17.93	0.00	1.70	0.10	0.39	2.19	0.00	77.6	0.0	0.	0.00
100	25.100	31.80	0.0	0.0	0.0	6.16	17.95	0.00	17.95	0.00	1.70	0.10	0.39	2.19	0.00	77.6	0.0	0.	0.00
101	25.000	31.80	0.0	0.0	0.0	6.15	17.98	0.00	17.98	0.00	1.70	0.10	0.39	2.19	0.00	77.7	0.0	0.	0.00
102	24.900	31.80	0.0	0.0	0.0	6.15	18.01	0.00	18.01	0.00	1.71	0.10	0.39	2.19	0.00	77.7	0.0	0.	0.00
103	24.800	31.80	0.0	0.0	0.0	6.15	18.03	0.00	18.03	0.00	1.71	0.10	0.38	2.19	0.00	77.8	0.0	0.	0.00
104	24.700	31.80	0.0	0.0	0.0	6.15	18.06	0.00	18.06	0.00	1.71	0.10	0.38	2.19	0.00	77.8	0.0	0.	0.00
105	24.600	31.80	0.0	0.0	0.0	6.15	18.08	0.00	18.08	0.00	1.71	0.10	0.38	2.19	0.00	77.8	0.0	0.	0.00
106	24.500	31.80	0.0	0.0	0.0	6.15	18.11	0.00	18.11	0.00	1.71	0.10	0.38	2.19	0.00	77.9	0.0	0.	0.00
107	24.400	31.80	0.0	0.0	0.0	6.15	18.13	0.00	18.13	0.00	1.71	0.10	0.38	2.19	0.00	77.9	0.0	0.	0.00
108	24.300	31.80	0.0	0.0	0.0	6.15	18.16	0.00	18.16	0.00	1.72	0.10	0.38	2.19	0.00	78.0	0.0	0.	0.00
109	24.200	31.80	0.0	0.0	0.0	6.15	18.18	0.00	18.18	0.00	1.72	0.10	0.37	2.19	0.00	78.0	0.0	0.	0.00
110	24.100	31.80	0.0	0.0	0.0	6.15	18.21	0.00	18.21	0.00	1.72	0.10	0.37	2.19	0.00	78.0	0.0	0.	0.00
111	24.000	31.80	0.0	0.0	0.0	6.15	18.24	0.00	18.24	0.00	1.72	0.10	0.37	2.19	0.00	78.1	0.0	0.	0.00
112	23.900	31.80	0.0	0.0	0.0	6.14	18.26	0.00	18.26	0.00	1.72	0.10	0.37	2.19	0.00	78.1	0.0	0.	0.00
113	23.800	31.80	0.0	0.0	0.0	6.14	18.29	0.00	18.29	0.00	1.72	0.10	0.37	2.19	0.00	78.1	0.0	0.	0.00
114	23.700	31.80	0.0	0.0	0.0	6.14	18.31	0.00	18.31	0.00	1.73	0.10	0.37	2.19	0.00	78.2	0.0	0.	0.00
115	23.600	31.80	0.0	0.0	0.0	6.14	18.34	0.00	18.34	0.00	1.73	0.10	0.36	2.19	0.00	78.2	0.0	0.	0.00
116	23.500	31.80	0.0	0.0	0.0	6.14	18.36	0.00	18.36	0.00	1.73	0.10	0.36	2.19	0.00	78.3	0.0	0.	0.00

117	23.400	31.80	0.0	0.0	0.0	6.14	18.39	0.00	18.39	0.00	1.73	0.10	0.36	2.19	0.00	78.3	0.0	0. 0.00
118	23.300	31.80	0.0	0.0	0.0	6.14	18.41	0.00	18.41	0.00	1.73	0.10	0.36	2.19	0.00	78.3	0.0	0. 0.00
119	23.200	31.80	0.0	0.0	0.0	6.14	18.44	0.00	18.44	0.00	1.73	0.10	0.36	2.19	0.00	78.4	0.0	0. 0.00
120	23.100	31.80	0.0	0.0	0.0	6.14	18.46	0.00	18.46	0.00	1.73	0.10	0.36	2.19	0.00	78.4	0.0	0. 0.00
121	23.000	31.80	0.0	0.0	0.0	6.14	18.49	0.00	18.49	0.00	1.74	0.10	0.35	2.19	0.00	78.5	0.0	0. 0.00
122	22.900	31.80	0.0	0.0	0.0	6.14	18.51	0.00	18.51	0.00	1.74	0.10	0.35	2.19	0.00	78.5	0.0	0. 0.00
123	22.800	31.80	0.0	0.0	0.0	6.14	18.54	0.00	18.54	0.00	1.74	0.10	0.35	2.19	0.00	78.5	0.0	0. 0.00
124	22.700	31.80	0.0	0.0	0.0	6.13	18.56	0.00	18.56	0.00	1.74	0.10	0.35	2.19	0.00	78.6	0.0	0. 0.00
125	22.600	31.80	0.0	0.0	0.0	6.13	18.59	0.00	18.59	0.00	1.74	0.10	0.35	2.19	0.00	78.6	0.0	0. 0.00
126	22.500	31.80	0.0	0.0	0.0	6.13	18.61	0.00	18.61	0.00	1.74	0.10	0.35	2.19	0.00	78.7	0.0	0. 0.00
127	22.400	31.80	0.0	0.0	0.0	6.13	18.64	0.00	18.64	0.00	1.75	0.10	0.34	2.19	0.00	78.7	0.0	0. 0.00
128	22.300	31.80	0.0	0.0	0.0	6.13	18.66	0.00	18.66	0.00	1.75	0.10	0.34	2.19	0.00	78.7	0.0	0. 0.00
129	22.200	31.80	0.0	0.0	0.0	6.13	18.68	0.00	18.68	0.00	1.75	0.10	0.34	2.19	0.00	78.8	0.0	0. 0.00
130	22.100	31.80	0.0	0.0	0.0	6.13	18.71	0.00	18.71	0.00	1.75	0.10	0.34	2.19	0.00	78.8	0.0	0. 0.00
131	22.000	31.80	0.0	0.0	0.0	6.13	18.73	0.00	18.73	0.00	1.75	0.10	0.34	2.19	0.00	78.9	0.0	0. 0.00
132	21.900	31.80	0.0	0.0	0.0	6.13	18.76	0.00	18.76	0.00	1.75	0.10	0.34	2.19	0.00	78.9	0.0	0. 0.00
133	21.800	31.80	0.0	0.0	0.0	6.13	18.78	0.00	18.78	0.00	1.76	0.10	0.33	2.19	0.00	78.9	0.0	0. 0.00
134	21.700	31.80	0.0	0.0	0.0	6.13	18.81	0.00	18.81	0.00	1.76	0.10	0.33	2.19	0.00	79.0	0.0	0. 0.00
135	21.600	31.80	0.0	0.0	0.0	6.13	18.83	0.00	18.83	0.00	1.76	0.10	0.33	2.19	0.00	79.0	0.0	0. 0.00
136	21.500	31.80	0.0	0.0	0.0	6.12	18.85	0.00	18.85	0.00	1.76	0.10	0.33	2.19	0.00	79.1	0.0	0. 0.00
137	21.400	31.80	0.0	0.0	0.0	6.12	18.88	0.00	18.88	0.00	1.76	0.10	0.33	2.19	0.00	79.1	0.0	0. 0.00
138	21.300	31.80	0.0	0.0	0.0	6.12	18.90	0.00	18.90	0.00	1.76	0.10	0.33	2.19	0.00	79.1	0.0	0. 0.00
139	21.200	31.80	0.0	0.0	0.0	6.12	18.93	0.00	18.93	0.00	1.76	0.10	0.32	2.19	0.00	79.2	0.0	0. 0.00
140	21.100	31.80	0.0	0.0	0.0	6.12	18.95	0.00	18.95	0.00	1.77	0.10	0.32	2.19	0.00	79.2	0.0	0. 0.00
141	21.000	31.80	0.0	0.0	0.0	6.12	18.97	0.00	18.97	0.00	1.77	0.10	0.32	2.19	0.00	79.3	0.0	0. 0.00
142	20.900	31.80	0.0	0.0	0.0	6.12	19.00	0.00	19.00	0.00	1.77	0.10	0.32	2.19	0.00	79.3	0.0	0. 0.00
143	20.800	31.80	0.0	0.0	0.0	6.12	19.02	0.00	19.02	0.00	1.77	0.10	0.32	2.19	0.00	79.3	0.0	0. 0.00
144	20.700	31.80	0.0	0.0	0.0	6.12	19.05	0.00	19.05	0.00	1.77	0.10	0.32	2.19	0.00	79.4	0.0	0. 0.00
145	20.600	31.80	0.0	0.0	0.0	6.12	19.07	0.00	19.07	0.00	1.77	0.10	0.31	2.19	0.00	79.4	0.0	0. 0.00
146	20.500	31.80	0.0	0.0	0.0	6.12	19.09	0.00	19.09	0.00	1.78	0.10	0.31	2.19	0.00	79.4	0.0	0. 0.00
147	20.400	31.80	0.0	0.0	0.0	6.12	19.12	0.00	19.12	0.00	1.78	0.10	0.31	2.19	0.00	79.5	0.0	0. 0.00
148	20.300	31.80	0.0	0.0	0.0	6.11	19.14	0.00	19.14	0.00	1.78	0.10	0.31	2.19	0.00	79.5	0.0	0. 0.00
149	20.200	31.80	0.0	0.0	0.0	6.11	19.16	0.00	19.16	0.00	1.78	0.10	0.31	2.19	0.00	79.6	0.0	0. 0.00
150	20.100	31.80	0.0	0.0	0.0	6.11	19.19	0.00	19.19	0.00	1.78	0.10	0.31	2.19	0.00	79.6	0.0	0. 0.00
151	20.000	31.80	0.0	0.0	0.0	6.11	19.21	0.00	19.21	0.00	1.78	0.10	0.30	2.19	0.00	79.6	0.0	0. 0.00
152	19.900	31.80	0.0	0.0	0.0	6.11	19.23	0.00	19.23	0.00	1.78	0.10	0.30	2.19	0.00	79.7	0.0	0. 0.00
153	19.800	31.80	0.0	0.0	0.0	6.11	19.26	0.00	19.26	0.00	1.79	0.10	0.30	2.19	0.00	79.7	0.0	0. 0.00
154	19.700	31.80	0.0	0.0	0.0	6.11	19.28	0.00	19.28	0.00	1.79	0.10	0.30	2.19	0.00	79.8	0.0	0. 0.00
155	19.600	31.80	0.0	0.0	0.0	6.11	19.30	0.00	19.30	0.00	1.79	0.10	0.30	2.19	0.00	79.8	0.0	0. 0.00
156	19.500	31.80	0.0	0.0	0.0	6.11	19.33	0.00	19.33	0.00	1.79	0.10	0.30	2.19	0.00	79.8	0.0	0. 0.00
157	19.400	31.80	0.0	0.0	0.0	6.11	19.35	0.00	19.35	0.00	1.79	0.10	0.29	2.19	0.00	79.9	0.0	0. 0.00
158	19.300	31.80	0.0	0.0	0.0	6.11	19.37	0.00	19.37	0.00	1.79	0.10	0.29	2.19	0.00	79.9	0.0	0. 0.00
159	19.200	31.80	0.0	0.0	0.0	6.11	19.40	0.00	19.40	0.00	1.80	0.10	0.29	2.19	0.00	80.0	0.0	0. 0.00
160	19.100	31.80	0.0	0.0	0.0	6.11	19.42	0.00	19.42	0.00	1.80	0.10	0.29	2.19	0.00	80.0	0.0	0. 0.00
161	19.000	31.80	0.0	0.0	0.0	6.13	19.40	0.00	19.40	0.00	1.80	0.10	0.29	2.19	0.00	79.6	0.0	0. 0.00
162	18.900	31.80	0.0	0.0	0.0	6.16	19.39	0.00	19.39	0.00	1.80	0.10	0.29	2.18	0.00	79.2	0.0	0. 0.00
163	18.800	31.80	0.0	0.0	0.0	6.20	19.37	0.00	19.37	0.00	1.80	0.10	0.28	2.18	0.00	78.8	0.0	0. 0.00
164	18.700	31.80	0.0	0.0	0.0	6.23	19.35	0.00	19.35	0.00	1.79	0.10	0.28	2.18	0.00	78.5	0.0	0. 0.00
165	18.600	31.80	0.0	0.0	0.0	6.26	19.34	0.00	19.34	0.00	1.79	0.10	0.28	2.18	0.00	78.1	0.0	0. 0.00
166	18.500	31.80	0.0	0.0	0.0	6.29	19.32	0.00	19.32	0.00	1.79	0.10	0.28	2.17	0.00	77.7	0.0	0. 0.00

167	18.400	31.80	0.0	0.0	0.0	6.32	19.30	0.00	19.30	0.00	1.79	0.10	0.27	2.17	0.00	77.3	0.0	0.	0.00
168	18.300	31.80	0.0	0.0	0.0	6.35	19.28	0.00	19.28	0.00	1.79	0.10	0.27	2.17	0.00	76.9	0.0	0.	0.00
169	18.200	31.80	0.0	0.0	0.0	6.38	19.27	0.00	19.27	0.00	1.79	0.10	0.27	2.16	0.00	76.5	0.0	0.	0.00
170	18.100	31.80	0.0	0.0	0.0	6.41	19.25	0.00	19.25	0.00	1.79	0.10	0.27	2.16	0.00	76.2	0.0	0.	0.00
171	18.000	31.80	0.0	0.0	0.0	6.44	19.23	0.00	19.23	0.00	1.79	0.10	0.26	2.16	0.00	75.8	0.0	0.	0.00
172	17.900	31.80	0.0	0.0	0.0	6.46	19.21	0.00	19.21	0.00	1.79	0.10	0.26	2.15	0.00	75.4	0.0	0.	0.00
173	17.800	31.80	0.0	0.0	0.0	6.49	19.20	0.00	19.20	0.00	1.79	0.10	0.26	2.15	0.00	75.0	0.0	0.	0.00
174	17.700	31.80	0.0	0.0	0.0	6.52	19.18	0.00	19.18	0.00	1.79	0.10	0.26	2.15	0.00	74.6	0.0	0.	0.00
175	17.600	31.80	0.0	0.0	0.0	6.55	19.16	0.00	19.16	0.00	1.79	0.10	0.25	2.15	0.00	74.2	0.0	0.	0.00
176	17.500	31.80	0.0	0.0	0.0	6.57	19.15	0.00	19.15	0.00	1.79	0.10	0.25	2.14	0.00	73.8	0.0	0.	0.00
177	17.400	31.80	0.0	0.0	0.0	6.60	19.13	0.00	19.13	0.00	1.79	0.10	0.25	2.14	0.00	73.5	0.0	0.	0.00
178	17.300	31.80	0.0	0.0	0.0	6.62	19.11	0.00	19.11	0.00	1.79	0.10	0.25	2.14	0.00	73.1	0.0	0.	0.00
179	17.200	31.80	0.0	0.0	0.0	6.65	19.10	0.00	19.10	0.00	1.79	0.10	0.24	2.14	0.00	72.7	0.0	0.	0.00
180	17.100	31.80	0.0	0.0	0.0	6.67	19.08	0.00	19.08	0.00	1.79	0.10	0.24	2.13	0.00	72.3	0.0	0.	0.00
181	17.000	31.80	0.0	0.0	0.0	6.70	19.06	0.00	19.06	0.00	1.78	0.10	0.24	2.13	0.00	71.9	0.0	0.	0.00
182	16.900	31.80	0.0	0.0	0.0	6.72	19.04	0.00	19.04	0.00	1.78	0.10	0.24	2.13	0.00	71.5	0.0	0.	0.00
183	16.800	31.80	0.0	0.0	0.0	6.74	19.03	0.00	19.03	0.00	1.78	0.10	0.24	2.12	0.00	71.2	0.0	0.	0.00
184	16.700	31.80	0.0	0.0	0.0	6.77	19.01	0.00	19.01	0.00	1.78	0.10	0.23	2.12	0.00	70.8	0.0	0.	0.00
185	16.600	31.80	0.0	0.0	0.0	6.79	18.99	0.00	18.99	0.00	1.78	0.10	0.23	2.12	0.00	70.4	0.0	0.	0.00
186	16.500	31.80	0.0	0.0	0.0	6.81	18.98	0.00	18.98	0.00	1.78	0.10	0.23	2.12	0.00	70.0	0.0	0.	0.00
187	16.400	31.80	0.0	0.0	0.0	6.83	18.96	0.00	18.96	0.00	1.78	0.10	0.23	2.11	0.00	69.6	0.0	0.	0.00
188	16.300	31.80	0.0	0.0	0.0	6.85	18.94	0.00	18.94	0.00	1.78	0.10	0.22	2.11	0.00	69.2	0.0	0.	0.00
189	16.200	31.80	0.0	0.0	0.0	6.87	18.93	0.00	18.93	0.00	1.78	0.10	0.22	2.11	0.00	68.8	0.0	0.	0.00
190	16.100	31.80	0.0	0.0	0.0	6.90	18.91	0.00	18.91	0.00	1.78	0.10	0.22	2.11	0.00	68.5	0.0	0.	0.00
191	16.000	31.80	0.0	0.0	0.0	6.92	18.89	0.00	18.89	0.00	1.78	0.10	0.22	2.10	0.00	68.1	0.0	0.	0.00
192	15.900	31.80	0.0	0.0	0.0	6.94	18.88	0.00	18.88	0.00	1.78	0.11	0.22	2.10	0.00	67.7	0.0	0.	0.00
193	15.800	31.80	0.0	0.0	0.0	6.95	18.86	0.00	18.86	0.00	1.78	0.11	0.21	2.10	0.00	67.3	0.0	0.	0.00
194	15.700	31.80	0.0	0.0	0.0	6.97	18.84	0.00	18.84	0.00	1.78	0.11	0.21	2.09	0.00	66.9	0.0	0.	0.00
195	15.600	31.80	0.0	0.0	0.0	6.99	18.82	0.00	18.82	0.00	1.78	0.11	0.21	2.09	0.00	66.5	0.0	0.	0.00
196	15.500	31.80	0.0	0.0	0.0	7.01	18.81	0.00	18.81	0.00	1.78	0.11	0.21	2.09	0.00	66.2	0.0	0.	0.00
197	15.400	31.80	0.0	0.0	0.0	7.03	18.79	0.00	18.79	0.00	1.78	0.11	0.21	2.09	0.00	65.8	0.0	0.	0.00
198	15.300	31.80	0.0	0.0	0.0	7.05	18.77	0.00	18.77	0.00	1.78	0.11	0.20	2.08	0.00	65.4	0.0	0.	0.00
199	15.200	31.80	0.0	0.0	0.0	7.06	18.76	0.00	18.76	0.00	1.77	0.11	0.20	2.08	0.00	65.0	0.0	0.	0.00
200	15.100	31.80	0.0	0.0	0.0	7.08	18.74	0.00	18.74	0.00	1.77	0.11	0.20	2.08	0.00	64.6	0.0	0.	0.00
201	15.000	31.80	0.0	0.0	0.0	7.10	18.72	0.00	18.72	0.00	1.77	0.11	0.20	2.08	0.00	64.2	0.0	0.	0.00
202	14.900	31.80	0.0	0.0	0.0	7.11	18.71	0.00	18.71	0.00	1.77	0.11	0.20	2.07	0.00	63.8	0.0	0.	0.00
203	14.800	31.80	0.0	0.0	0.0	7.13	18.69	0.00	18.69	0.00	1.77	0.11	0.19	2.07	0.00	63.5	0.0	0.	0.00
204	14.700	31.80	0.0	0.0	0.0	7.14	18.67	0.00	18.67	0.00	1.77	0.11	0.19	2.07	0.00	63.1	0.0	0.	0.00
205	14.600	31.80	0.0	0.0	0.0	7.16	18.66	0.00	18.66	0.00	1.77	0.11	0.19	2.07	0.00	62.7	0.0	0.	0.00
206	14.500	31.80	0.0	0.0	0.0	7.17	18.64	0.00	18.64	0.00	1.77	0.11	0.19	2.06	0.00	62.3	0.0	0.	0.00
207	14.400	31.80	0.0	0.0	0.0	7.19	18.62	0.00	18.62	0.00	1.77	0.11	0.19	2.06	0.00	61.9	0.0	0.	0.00
208	14.300	31.80	0.0	0.0	0.0	7.20	18.61	0.00	18.61	0.00	1.77	0.11	0.18	2.06	0.00	61.5	0.0	0.	0.00
209	14.200	31.80	0.0	0.0	0.0	7.21	18.59	0.00	18.59	0.00	1.77	0.11	0.18	2.06	0.00	61.2	0.0	0.	0.00
210	14.100	31.80	0.0	0.0	0.0	7.23	18.58	0.00	18.58	0.00	1.77	0.11	0.18	2.06	0.00	60.8	0.0	0.	0.00
211	14.000	31.80	0.0	0.0	0.0	7.24	18.56	0.00	18.56	0.00	1.77	0.11	0.18	2.05	0.00	60.4	0.0	0.	0.00
212	13.900	31.80	0.0	0.0	0.0	7.24	18.50	0.00	18.50	0.00	1.77	0.11	0.18	2.05	0.00	60.0	0.0	0.	0.00
213	13.800	31.80	0.0	0.0	0.0	6.96	17.15	0.00	17.15	0.00	1.79	0.10	0.16	2.05	0.00	59.5	0.0	0.	0.00
214	13.700	31.80	0.0	0.0	0.0	6.98	17.13	0.00	17.13	0.00	1.79	0.10	0.16	2.04	0.00	59.0	0.0	0.	0.00
215	13.600	31.80	0.0	0.0	0.0	7.00	17.10	0.00	17.10	0.00	1.79	0.10	0.15	2.04	0.00	58.5	0.0	0.	0.00
216	13.500	31.80	0.0	0.0	0.0	7.02	17.08	0.00	17.08	0.00	1.79	0.10	0.15	2.04	0.00	58.0	0.0	0.	0.00

217	13.400	31.80	0.0	0.0	0.0	7.04	17.06	0.00	17.06	0.00	1.78	0.10	0.15	2.03	0.00	57.5	0.0	0.	0.00
218	13.300	31.80	0.0	0.0	0.0	7.06	17.04	0.00	17.04	0.00	1.78	0.10	0.14	2.03	0.00	57.0	0.0	0.	0.00
219	13.200	31.80	0.0	0.0	0.0	7.08	17.02	0.00	17.02	0.00	1.78	0.10	0.14	2.03	0.00	56.5	0.0	0.	0.00
220	13.100	31.80	0.0	0.0	0.0	7.10	16.99	0.00	16.99	0.00	1.78	0.10	0.14	2.02	0.00	56.0	0.0	0.	0.00
221	13.000	31.80	0.0	0.0	0.0	7.12	16.97	0.00	16.97	0.00	1.78	0.10	0.14	2.02	0.00	55.5	0.0	0.	0.00
222	12.900	31.80	0.0	0.0	0.0	7.14	16.95	0.00	16.95	0.00	1.78	0.10	0.13	2.02	0.00	55.0	0.0	0.	0.00
223	12.800	31.80	0.0	0.0	0.0	7.15	16.93	0.00	16.93	0.00	1.78	0.10	0.13	2.01	0.00	54.5	0.0	0.	0.00
224	12.700	31.80	0.0	0.0	0.0	7.17	16.91	0.00	16.91	0.00	1.78	0.10	0.13	2.01	0.00	54.0	0.0	0.	0.00
225	12.600	31.80	0.0	0.0	0.0	7.18	16.88	0.00	16.88	0.00	1.78	0.10	0.13	2.01	0.00	53.5	0.0	0.	0.00
226	12.500	31.80	0.0	0.0	0.0	7.20	16.86	0.00	16.86	0.00	1.78	0.10	0.12	2.00	0.00	53.0	0.0	0.	0.00
227	12.400	31.80	0.0	0.0	0.0	7.21	16.84	0.00	16.84	0.00	1.78	0.10	0.12	2.00	0.00	52.5	0.0	0.	0.00
228	12.300	31.80	0.0	0.0	0.0	7.23	16.82	0.00	16.82	0.00	1.78	0.10	0.12	2.00	0.00	52.0	0.0	0.	0.00
229	12.200	31.80	0.0	0.0	0.0	7.24	16.80	0.00	16.80	0.00	1.77	0.10	0.12	1.99	0.00	51.5	0.0	0.	0.00
230	12.100	31.80	0.0	0.0	0.0	7.25	16.78	0.00	16.78	0.00	1.77	0.10	0.11	1.99	0.00	51.0	0.0	0.	0.00
231	12.000	31.80	0.0	0.0	0.0	7.26	16.75	0.00	16.75	0.00	1.77	0.10	0.11	1.99	0.00	50.5	0.0	0.	0.00
232	11.900	31.80	0.0	0.0	0.0	7.27	16.73	0.00	16.73	0.00	1.77	0.10	0.11	1.98	0.00	50.0	0.0	0.	0.00
233	11.800	31.80	0.0	0.0	0.0	7.28	16.71	0.00	16.71	0.00	1.77	0.10	0.11	1.98	0.00	49.5	0.0	0.	0.00
234	11.700	31.80	0.0	0.0	0.0	7.29	16.69	0.00	16.69	0.00	1.77	0.10	0.11	1.98	0.00	49.0	0.0	0.	0.00
235	11.600	31.80	0.0	0.0	0.0	7.30	16.67	0.00	16.67	0.00	1.77	0.10	0.10	1.98	0.00	48.5	0.0	0.	0.00
236	11.500	31.80	0.0	0.0	0.0	7.31	16.65	0.00	16.65	0.00	1.77	0.10	0.10	1.97	0.00	48.0	0.0	0.	0.00
237	11.400	31.80	0.0	0.0	0.0	7.32	16.62	0.00	16.62	0.00	1.77	0.10	0.10	1.97	0.00	47.5	0.0	0.	0.00
238	11.300	31.80	0.0	0.0	0.0	7.32	16.60	0.00	16.60	0.00	1.77	0.10	0.10	1.97	0.00	47.0	0.0	0.	0.00
239	11.200	31.80	0.0	0.0	0.0	7.33	16.58	0.00	16.58	0.00	1.77	0.10	0.09	1.96	0.00	46.5	0.0	0.	0.00
240	11.100	31.80	0.0	0.0	0.0	7.34	16.56	0.00	16.56	0.00	1.77	0.10	0.09	1.96	0.00	46.0	0.0	0.	0.00
241	11.000	31.80	0.0	0.0	0.0	7.34	16.54	0.00	16.54	0.00	1.77	0.10	0.09	1.96	0.00	45.5	0.0	0.	0.00
242	10.900	31.80	0.0	0.0	0.0	7.35	16.52	0.00	16.52	0.00	1.76	0.10	0.09	1.96	0.00	45.0	0.0	0.	0.00
243	10.800	31.80	0.0	0.0	0.0	7.35	16.50	0.00	16.50	0.00	1.76	0.10	0.09	1.95	0.00	44.5	0.0	0.	0.00
244	10.700	31.80	0.0	0.0	0.0	7.36	16.47	0.00	16.47	0.00	1.76	0.10	0.08	1.95	0.00	44.0	0.0	0.	0.00
245	10.600	31.80	0.0	0.0	0.0	7.36	16.45	0.00	16.45	0.00	1.76	0.10	0.08	1.95	0.00	43.5	0.0	0.	0.00
246	10.500	31.80	0.0	0.0	0.0	7.36	16.43	0.00	16.43	0.00	1.76	0.10	0.08	1.95	0.00	43.0	0.0	0.	0.00
247	10.400	31.80	0.0	0.0	0.0	7.36	16.41	0.00	16.41	0.00	1.76	0.10	0.08	1.94	0.00	42.5	0.0	0.	0.00
248	10.300	31.80	0.0	0.0	0.0	7.37	16.39	0.00	16.39	0.00	1.76	0.10	0.08	1.94	0.00	42.0	0.0	0.	0.00
249	10.200	31.80	0.0	0.0	0.0	7.37	16.37	0.00	16.37	0.00	1.76	0.10	0.08	1.94	0.00	41.5	0.0	0.	0.00
250	10.100	31.80	0.0	0.0	0.0	7.37	16.35	0.00	16.35	0.00	1.76	0.10	0.07	1.94	0.00	41.0	0.0	0.	0.00
251	10.000	31.80	0.0	0.0	0.0	7.37	16.33	0.00	16.33	0.00	1.76	0.10	0.07	1.93	0.00	40.5	0.0	0.	0.00
252	9.900	31.80	0.0	0.0	0.0	7.37	16.31	0.00	16.31	0.00	1.76	0.10	0.07	1.93	0.00	40.0	0.0	0.	0.00
253	9.800	31.80	0.0	0.0	0.0	7.37	16.29	0.00	16.29	0.00	1.76	0.10	0.07	1.93	0.00	39.7	0.0	0.	0.00
254	9.700	31.80	0.0	0.0	0.0	7.36	16.24	0.00	16.24	0.00	1.75	0.10	0.06	1.92	0.00	39.5	0.0	0.	0.00
255	9.600	31.80	0.0	0.0	0.0	7.36	16.18	0.00	16.18	0.00	1.75	0.10	0.06	1.92	0.00	39.2	0.0	0.	0.00
256	9.500	31.80	0.0	0.0	0.0	7.36	16.13	0.00	16.13	0.00	1.75	0.10	0.06	1.91	0.00	39.0	0.0	0.	0.00
257	9.400	31.80	0.0	0.0	0.0	7.35	16.07	0.00	16.07	0.00	1.75	0.10	0.05	1.90	0.00	38.7	0.0	0.	0.00
258	9.300	31.80	0.0	0.0	0.0	7.35	16.01	0.00	16.01	0.00	1.75	0.10	0.05	1.90	0.00	38.5	0.0	0.	0.00
259	9.200	31.80	0.0	0.0	0.0	7.34	15.96	0.00	15.96	0.00	1.74	0.10	0.04	1.89	0.00	38.2	0.0	0.	0.00
260	9.100	31.80	0.0	0.0	0.0	7.34	15.91	0.00	15.91	0.00	1.74	0.11	0.04	1.89	0.00	38.0	0.0	0.	0.00
261	9.000	31.80	0.0	0.0	0.0	7.33	15.85	0.00	15.85	0.00	1.74	0.11	0.04	1.88	0.00	37.7	0.0	0.	0.00
262	8.900	31.80	0.0	0.0	0.0	7.33	15.80	0.00	15.80	0.00	1.74	0.11	0.03	1.87	0.00	37.5	0.0	0.	0.00
263	8.800	31.80	0.0	0.0	0.0	7.32	15.74	0.00	15.74	0.00	1.73	0.11	0.03	1.87	0.00	37.2	0.0	0.	0.00
264	8.700	31.80	0.0	0.0	0.0	7.31	15.69	0.00	15.69	0.00	1.73	0.11	0.02	1.86	0.00	37.0	0.0	0.	0.00
265	8.600	31.80	0.0	0.0	0.0	7.30	15.64	0.00	15.64	0.00	1.73	0.11	0.02	1.86	0.00	36.7	0.0	0.	0.00
266	8.500	31.80	0.0	0.0	0.0	7.30	15.58	0.00	15.58	0.00	1.73	0.11	0.02	1.85	0.00	36.4	0.0	0.	0.00

267	8.400	31.80	0.0	0.0	0.0	7.29	15.53	0.00	15.53	0.00	1.73	0.11	0.01	1.84	0.00	36.2	0.0	0. 0.00
268	8.300	31.80	0.0	0.0	0.0	7.28	15.48	0.00	15.48	0.00	1.72	0.11	0.01	1.84	0.00	35.9	0.0	0. 0.00
269	8.200	31.80	0.0	0.0	0.0	7.27	15.42	0.00	15.42	0.00	1.72	0.11	0.00	1.83	0.00	35.7	0.0	0. 0.00
270	8.100	31.80	0.0	0.0	0.0	7.26	15.37	0.00	15.37	0.00	1.72	0.11	0.00	1.83	0.00	35.4	0.0	0. 0.00
271	8.000	31.80	0.0	0.0	0.0	7.25	15.32	0.00	15.32	0.00	1.72	0.11	0.00	1.82	0.00	35.2	0.0	0. 0.00
272	7.900	31.80	0.0	0.0	0.0	7.24	15.27	0.00	15.27	0.00	1.72	0.11	0.00	1.82	0.00	34.9	0.0	0. 0.00
273	7.800	31.80	0.0	0.0	0.0	7.23	15.21	0.00	15.21	0.00	1.71	0.11	0.00	1.82	0.00	34.7	0.0	0. 0.00
274	7.700	31.80	0.0	0.0	0.0	7.21	15.16	0.00	15.16	0.00	1.71	0.11	0.00	1.82	0.00	34.4	0.0	0. 0.00
275	7.600	31.80	0.0	0.0	0.0	7.20	15.11	0.00	15.11	0.00	1.71	0.11	0.00	1.82	0.00	34.2	0.0	0. 0.00
276	7.500	31.80	0.0	0.0	0.0	7.19	15.06	0.00	15.06	0.00	1.71	0.11	0.00	1.81	0.00	33.9	0.0	0. 0.00
277	7.400	31.80	0.0	0.0	0.0	7.18	15.01	0.00	15.01	0.00	1.71	0.11	0.00	1.81	0.00	33.7	0.0	0. 0.00
278	7.300	31.80	0.0	0.0	0.0	7.16	14.96	0.00	14.96	0.00	1.70	0.11	0.00	1.81	0.00	33.4	0.0	0. 0.00
279	7.200	31.80	0.0	0.0	0.0	7.15	14.91	0.00	14.91	0.00	1.70	0.11	0.00	1.81	0.00	33.1	0.0	0. 0.00
280	7.100	31.80	0.0	0.0	0.0	7.14	14.85	0.00	14.85	0.00	1.70	0.11	0.00	1.81	0.00	32.9	0.0	0. 0.00
281	7.000	31.80	0.0	0.0	0.0	7.12	14.80	0.00	14.80	0.00	1.70	0.11	0.00	1.80	0.00	32.6	0.0	0. 0.00
282	6.900	31.80	0.0	0.0	0.0	7.11	14.75	0.00	14.75	0.00	1.70	0.11	0.00	1.80	0.00	32.4	0.0	0. 0.00
283	6.800	31.80	0.0	0.0	0.0	7.09	14.70	0.00	14.70	0.00	1.69	0.11	0.00	1.80	0.00	32.1	0.0	0. 0.00
284	6.700	31.80	0.0	0.0	0.0	7.08	14.65	0.00	14.65	0.00	1.69	0.11	0.00	1.80	0.00	31.9	0.0	0. 0.00
285	6.600	31.80	0.0	0.0	0.0	7.06	14.60	0.00	14.60	0.00	1.69	0.11	0.00	1.80	0.00	31.6	0.0	0. 0.00
286	6.500	31.80	0.0	0.0	0.0	7.05	14.55	0.00	14.55	0.00	1.69	0.11	0.00	1.79	0.00	31.4	0.0	0. 0.00
287	6.400	31.80	0.0	0.0	0.0	7.03	14.51	0.00	14.51	0.00	1.68	0.11	0.00	1.79	0.00	31.1	0.0	0. 0.00
288	6.300	31.80	0.0	0.0	0.0	7.01	14.46	0.00	14.46	0.00	1.68	0.11	0.00	1.79	0.00	30.9	0.0	0. 0.00
289	6.200	31.80	0.0	0.0	0.0	7.00	14.41	0.00	14.41	0.00	1.68	0.11	0.00	1.79	0.00	30.6	0.0	0. 0.00
290	6.100	31.80	0.0	0.0	0.0	6.98	14.36	0.00	14.36	0.00	1.68	0.11	0.00	1.79	0.00	30.3	0.0	0. 0.00
291	6.000	31.80	0.0	0.0	0.0	6.96	14.31	0.00	14.31	0.00	1.68	0.11	0.00	1.78	0.00	30.1	0.0	0. 0.00
292	5.900	31.80	0.0	0.0	0.0	6.94	14.26	0.00	14.26	0.00	1.67	0.11	0.00	1.78	0.00	29.8	0.0	0. 0.00
293	5.800	31.80	0.0	0.0	0.0	6.93	14.21	0.00	14.21	0.00	1.67	0.11	0.00	1.78	0.00	29.6	0.0	0. 0.00
294	5.700	31.80	0.0	0.0	0.0	6.91	14.17	0.00	14.17	0.00	1.67	0.11	0.00	1.78	0.00	29.3	0.0	0. 0.00
295	5.600	31.80	0.0	0.0	0.0	6.89	14.12	0.00	14.12	0.00	1.67	0.11	0.00	1.78	0.00	29.1	0.0	0. 0.00
296	5.500	31.80	0.0	0.0	0.0	6.87	14.07	0.00	14.07	0.00	1.67	0.11	0.00	1.78	0.00	28.8	0.0	0. 0.00
297	5.400	31.80	0.0	0.0	0.0	6.85	14.02	0.00	14.02	0.00	1.66	0.11	0.00	1.77	0.00	28.6	0.0	0. 0.00
298	5.300	31.80	0.0	0.0	0.0	6.83	13.97	0.00	13.97	0.00	1.66	0.11	0.00	1.77	0.00	28.3	0.0	0. 0.00
299	5.200	31.80	0.0	0.0	0.0	6.81	13.93	0.00	13.93	0.00	1.66	0.11	0.00	1.77	0.00	28.1	0.0	0. 0.00
300	5.100	31.80	0.0	0.0	0.0	6.79	13.88	0.00	13.88	0.00	1.66	0.11	0.00	1.77	0.00	27.8	0.0	0. 0.00
301	5.000	31.80	0.0	0.0	0.0	6.77	13.83	0.00	13.83	0.00	1.66	0.11	0.00	1.77	0.00	27.6	0.0	0. 0.00
302	4.900	31.80	0.0	0.0	0.0	6.75	13.79	0.00	13.79	0.00	1.65	0.11	0.00	1.76	0.00	27.3	0.0	0. 0.00
303	4.800	31.80	0.0	0.0	0.0	6.73	13.74	0.00	13.74	0.00	1.65	0.11	0.00	1.76	0.00	27.0	0.0	0. 0.00
304	4.700	31.80	0.0	0.0	0.0	6.71	13.70	0.00	13.70	0.00	1.65	0.11	0.00	1.76	0.00	26.8	0.0	0. 0.00
305	4.600	31.80	0.0	0.0	0.0	6.69	13.65	0.00	13.65	0.00	1.65	0.11	0.00	1.76	0.00	26.5	0.0	0. 0.00
306	4.500	31.80	0.0	0.0	0.0	6.67	13.60	0.00	13.60	0.00	1.65	0.11	0.00	1.76	0.00	26.3	0.0	0. 0.00
307	4.400	31.80	0.0	0.0	0.0	6.65	13.56	0.00	13.56	0.00	1.65	0.11	0.00	1.75	0.00	26.0	0.0	0. 0.00
308	4.300	31.80	0.0	0.0	0.0	6.63	13.51	0.00	13.51	0.00	1.64	0.11	0.00	1.75	0.00	25.8	0.0	0. 0.00
309	4.200	31.80	0.0	0.0	0.0	6.60	13.47	0.00	13.47	0.00	1.64	0.11	0.00	1.75	0.00	25.5	0.0	0. 0.00
310	4.100	31.80	0.0	0.0	0.0	6.58	13.42	0.00	13.42	0.00	1.64	0.11	0.00	1.75	0.00	25.3	0.0	0. 0.00
311	4.000	31.80	0.0	0.0	0.0	6.56	13.38	0.00	13.38	0.00	1.64	0.11	0.00	1.75	0.00	25.0	0.0	0. 0.00
312	3.900	31.80	0.0	0.0	0.0	6.54	13.33	0.00	13.33	0.00	1.64	0.11	0.00	1.74	0.00	24.8	0.0	0. 0.00
313	3.800	31.80	0.0	0.0	0.0	6.51	13.29	0.00	13.29	0.00	1.63	0.11	0.00	1.74	0.00	24.5	0.0	0. 0.00
314	3.700	31.80	0.0	0.0	0.0	6.49	13.24	0.00	13.24	0.00	1.63	0.11	0.00	1.74	0.00	24.3	0.0	0. 0.00
315	3.600	31.80	0.0	0.0	0.0	6.47	13.20	0.00	13.20	0.00	1.63	0.11	0.00	1.74	0.00	24.0	0.0	0. 0.00
316	3.500	31.82	0.0	0.0	0.0	6.44	13.14	0.00	13.14	0.00	1.63	0.11	0.00	1.74	0.00	24.0	0.0	0. 0.00

317	3.400	31.83	0.0	0.0	0.0	6.41	13.08	0.00	13.08	0.00	1.62	0.11	0.00	1.73	0.00	24.0	0.0	0.	0.00
318	3.300	31.85	0.0	0.0	0.0	6.38	13.02	0.00	13.02	0.00	1.62	0.11	0.00	1.73	0.00	24.0	0.0	0.	0.00
319	3.200	31.87	0.0	0.0	0.0	6.35	12.96	0.00	12.96	0.00	1.62	0.11	0.00	1.73	0.00	24.0	0.0	0.	0.00
320	3.100	31.88	0.0	0.0	0.0	6.33	12.91	0.00	12.91	0.00	1.62	0.11	0.00	1.72	0.00	24.0	0.0	0.	0.00
321	3.000	31.90	0.0	0.0	0.0	6.30	12.85	0.00	12.85	0.00	1.61	0.11	0.00	1.72	0.00	24.0	0.0	0.	0.00
322	2.900	31.92	0.0	0.0	0.0	6.27	12.79	0.00	12.79	0.00	1.61	0.11	0.00	1.72	0.00	24.0	0.0	0.	0.00
323	2.800	31.93	0.0	0.0	0.0	6.25	12.74	0.00	12.74	0.00	1.61	0.11	0.00	1.72	0.00	24.0	0.0	0.	0.00
324	2.700	31.95	0.0	0.0	0.0	6.23	12.68	0.00	12.68	0.00	1.60	0.11	0.00	1.71	0.00	24.0	0.0	0.	0.00
325	2.600	31.97	0.0	0.0	0.0	6.20	12.63	0.00	12.63	0.00	1.60	0.11	0.00	1.71	0.00	24.0	0.0	0.	0.00
326	2.500	31.98	0.0	0.0	0.0	6.18	12.57	0.00	12.57	0.00	1.60	0.11	0.00	1.71	0.00	24.0	0.0	0.	0.00
327	2.400	32.00	0.0	0.0	0.0	6.16	12.52	0.00	12.52	0.00	1.60	0.11	0.00	1.71	0.00	24.0	0.0	0.	0.00
328	2.300	32.02	0.0	0.0	0.0	6.14	12.46	0.00	12.46	0.00	1.59	0.11	0.00	1.70	0.00	24.0	0.0	0.	0.00
329	2.200	32.03	0.0	0.0	0.0	6.12	12.41	0.00	12.41	0.00	1.59	0.11	0.00	1.70	0.00	24.0	0.0	0.	0.00
330	2.100	32.05	0.0	0.0	0.0	6.10	12.35	0.00	12.35	0.00	1.59	0.11	0.00	1.70	0.00	24.0	0.0	0.	0.00
331	2.000	32.07	0.0	0.0	0.0	6.08	12.30	0.00	12.30	0.00	1.59	0.11	0.00	1.69	0.00	24.0	0.0	0.	0.00
332	1.900	32.08	0.0	0.0	0.0	6.06	12.25	0.00	12.25	0.00	1.58	0.11	0.00	1.69	0.00	24.0	0.0	0.	0.00
333	1.800	32.10	0.0	0.0	0.0	6.04	12.19	0.00	12.19	0.00	1.58	0.11	0.00	1.69	0.00	24.0	0.0	0.	0.00
334	1.700	32.12	0.0	0.0	0.0	6.02	12.14	0.00	12.14	0.00	1.58	0.11	0.00	1.69	0.00	24.0	0.0	0.	0.00
335	1.600	32.13	0.0	0.0	0.0	6.01	12.09	0.00	12.09	0.00	1.58	0.11	0.00	1.68	0.00	24.0	0.0	0.	0.00
336	1.500	32.15	0.0	0.0	0.0	5.99	12.03	0.00	12.03	0.00	1.57	0.11	0.00	1.68	0.00	24.0	0.0	0.	0.00
337	1.400	32.17	0.0	0.0	0.0	5.97	11.98	0.00	11.98	0.00	1.57	0.11	0.00	1.68	0.00	24.0	0.0	0.	0.00
338	1.300	32.18	0.0	0.0	0.0	5.96	11.93	0.00	11.93	0.00	1.57	0.11	0.00	1.68	0.00	24.0	0.0	0.	0.00
339	1.200	32.20	0.0	0.0	0.0	5.94	11.88	0.00	11.88	0.00	1.56	0.11	0.00	1.67	0.00	24.0	0.0	0.	0.00
340	1.100	32.22	0.0	0.0	0.0	5.93	11.83	0.00	11.83	0.00	1.56	0.11	0.00	1.67	0.00	24.0	0.0	0.	0.00
341	1.000	32.23	0.0	0.0	0.0	5.91	11.78	0.00	11.78	0.00	1.56	0.11	0.00	1.67	0.00	24.0	0.0	0.	0.00
342	0.900	32.25	0.0	0.0	0.0	5.90	11.72	0.00	11.72	0.00	1.56	0.11	0.00	1.67	0.00	24.0	0.0	0.	0.00
343	0.800	32.27	0.0	0.0	0.0	5.89	11.67	0.00	11.67	0.00	1.56	0.11	0.00	1.66	0.00	24.0	0.0	0.	0.00
344	0.700	32.28	0.0	0.0	0.0	5.88	11.59	0.00	11.59	0.00	1.56	0.11	0.00	1.67	0.00	24.0	0.0	0.	0.00
345	0.600	32.30	0.0	0.0	0.0	5.89	11.32	0.00	11.32	0.00	1.60	0.11	0.00	1.71	0.00	24.0	0.0	0.	0.00
526	0.500	32.28	0.0	0.0	0.0	6.07	9.39	0.00	9.39	0.00	1.93	0.12	0.00	2.06	0.00	24.0	0.0	0.	0.00
527	0.400	32.27	0.0	0.0	0.0	6.06	9.38	0.00	9.38	0.00	1.93	0.12	0.00	2.05	0.00	24.0	0.0	0.	0.00
528	0.300	32.25	0.0	0.0	0.0	6.06	9.36	0.00	9.36	0.00	1.93	0.12	0.00	2.05	0.00	24.0	0.0	0.	0.00
529	0.200	32.23	0.0	0.0	0.0	6.06	9.35	0.00	9.35	0.00	1.93	0.12	0.00	2.05	0.00	24.0	0.0	0.	0.00
530	0.100	32.22	0.0	0.0	0.0	6.05	9.28	0.00	9.28	0.00	1.91	0.12	0.00	2.04	0.00	24.0	0.0	0.	0.00
531	0.000	32.20	0.0	0.0	0.0	6.05	8.45	0.00	8.45	0.00	1.69	0.12	0.00	1.81	0.00	24.0	0.0	0.	0.00

SPECIAL REPORT: Station 935

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	*	CM-I *	CM-II mg/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS	CHL A #/100mL	MACRO *	COLI	NCM
346	17.900	31.48	0.0	0.0	0.0	4.71	3.25	0.00	3.25	0.00	0.89	0.10	0.03	1.01	0.00	10.0	0.0	0.	0.00	
347	17.800	31.45	0.0	0.0	0.0	4.73	3.08	0.00	3.08	0.00	0.87	0.10	0.01	0.99	0.00	10.0	0.0	0.	0.00	
348	17.700	31.43	0.0	0.0	0.0	4.76	2.92	0.00	2.92	0.00	0.86	0.10	0.00	0.96	0.00	10.0	0.0	0.	0.00	
349	17.600	31.41	0.0	0.0	0.0	4.78	2.78	0.00	2.78	0.00	0.85	0.10	0.00	0.94	0.00	10.0	0.0	0.	0.00	
350	17.500	31.39	0.0	0.0	0.0	4.81	2.64	0.00	2.64	0.00	0.83	0.10	0.00	0.93	0.00	10.0	0.0	0.	0.00	
351	17.400	31.36	0.0	0.0	0.0	4.84	2.50	0.00	2.50	0.00	0.82	0.10	0.00	0.92	0.00	10.0	0.0	0.	0.00	
352	17.300	31.34	0.0	0.0	0.0	4.87	2.38	0.00	2.38	0.00	0.81	0.10	0.00	0.90	0.00	10.0	0.0	0.	0.00	
353	17.200	31.32	0.0	0.0	0.0	4.89	2.26	0.00	2.26	0.00	0.79	0.10	0.00	0.89	0.00	10.0	0.0	0.	0.00	
354	17.100	31.30	0.0	0.0	0.0	4.92	2.14	0.00	2.14	0.00	0.78	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00	
355	17.000	31.27	0.0	0.0	0.0	4.95	2.03	0.00	2.03	0.00	0.77	0.09	0.00	0.86	0.00	10.0	0.0	0.	0.00	
356	16.900	31.25	0.0	0.0	0.0	4.98	1.93	0.00	1.93	0.00	0.76	0.09	0.00	0.85	0.00	10.0	0.0	0.	0.00	

357	16.800	31.23	0.0	0.0	0.0	5.00	1.84	0.00	1.84	0.00	0.75	0.09	0.00	0.84	0.00	10.0	0.0	0.	0.00
358	16.700	31.20	0.0	0.0	0.0	5.03	1.74	0.00	1.74	0.00	0.73	0.09	0.00	0.82	0.00	10.0	0.0	0.	0.00
359	16.600	31.18	0.0	0.0	0.0	5.05	1.66	0.00	1.66	0.00	0.72	0.09	0.00	0.81	0.00	10.0	0.0	0.	0.00
360	16.500	31.16	0.0	0.0	0.0	5.08	1.57	0.00	1.57	0.00	0.71	0.09	0.00	0.80	0.00	10.0	0.0	0.	0.00
361	16.400	31.14	0.0	0.0	0.0	5.10	1.49	0.00	1.49	0.00	0.70	0.09	0.00	0.79	0.00	10.0	0.0	0.	0.00
362	16.300	31.11	0.0	0.0	0.0	5.12	1.42	0.00	1.42	0.00	0.69	0.09	0.00	0.77	0.00	10.0	0.0	0.	0.00
363	16.200	31.09	0.0	0.0	0.0	5.15	1.35	0.00	1.35	0.00	0.68	0.08	0.00	0.76	0.00	10.0	0.0	0.	0.00
364	16.100	31.07	0.0	0.0	0.0	5.17	1.28	0.00	1.28	0.00	0.67	0.08	0.00	0.75	0.00	10.0	0.0	0.	0.00
365	16.000	31.05	0.0	0.0	0.0	5.19	1.22	0.00	1.22	0.00	0.66	0.08	0.00	0.74	0.00	10.0	0.0	0.	0.00
366	15.900	31.02	0.0	0.0	0.0	5.21	1.16	0.00	1.16	0.00	0.65	0.08	0.00	0.73	0.00	10.0	0.0	0.	0.00
367	15.800	31.00	0.0	0.0	0.0	5.23	1.10	0.00	1.10	0.00	0.64	0.08	0.00	0.72	0.00	10.0	0.0	0.	0.00
368	15.700	31.00	0.0	0.0	0.0	7.00	2.65	0.00	2.65	0.00	0.75	0.08	0.00	0.83	0.00	10.0	0.0	0.	0.00
369	15.600	31.00	0.0	0.0	0.0	7.03	2.87	0.00	2.87	0.00	0.77	0.08	0.00	0.86	0.00	10.0	0.0	0.	0.00
370	15.500	31.00	0.0	0.0	0.0	7.03	2.93	0.00	2.93	0.00	0.78	0.09	0.00	0.87	0.00	10.0	0.0	0.	0.00
371	15.400	31.00	0.0	0.0	0.0	7.03	2.96	0.00	2.96	0.00	0.79	0.09	0.00	0.87	0.00	10.0	0.0	0.	0.00
372	15.300	31.00	0.0	0.0	0.0	7.02	2.97	0.00	2.97	0.00	0.79	0.09	0.00	0.87	0.00	10.0	0.0	0.	0.00
373	15.200	31.00	0.0	0.0	0.0	7.02	2.97	0.00	2.97	0.00	0.79	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00
374	15.100	31.00	0.0	0.0	0.0	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00
375	15.000	31.00	0.0	0.0	0.0	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00
376	14.900	31.00	0.0	0.0	0.0	7.02	2.98	0.00	2.98	0.00	0.79	0.09	0.00	0.88	0.00	10.0	0.0	0.	0.00
377	14.800	31.04	0.0	0.0	0.0	6.28	3.58	0.00	3.58	0.00	1.05	0.09	0.00	1.15	0.00	11.2	0.0	0.	0.00
378	14.700	31.08	0.0	0.0	0.0	5.95	4.01	0.00	4.01	0.00	1.25	0.10	0.00	1.36	0.00	12.3	0.0	0.	0.00
379	14.600	31.12	0.0	0.0	0.0	5.81	4.34	0.00	4.34	0.00	1.41	0.11	0.00	1.52	0.00	13.5	0.0	0.	0.00
380	14.500	31.15	0.0	0.0	0.0	5.77	4.59	0.00	4.59	0.00	1.54	0.12	0.00	1.66	0.00	14.6	0.0	0.	0.00
381	14.400	31.19	0.0	0.0	0.0	5.78	4.79	0.00	4.79	0.00	1.65	0.13	0.00	1.77	0.00	15.8	0.0	0.	0.00
382	14.300	31.23	0.0	0.0	0.0	5.83	4.94	0.00	4.94	0.00	1.73	0.13	0.00	1.86	0.00	16.9	0.0	0.	0.00
383	14.200	31.27	0.0	0.0	0.0	5.89	5.06	0.00	5.06	0.00	1.80	0.14	0.00	1.94	0.00	18.1	0.0	0.	0.00
384	14.100	31.31	0.0	0.0	0.0	5.96	5.16	0.00	5.16	0.00	1.86	0.14	0.00	2.01	0.00	19.2	0.0	0.	0.00
385	14.000	31.35	0.0	0.0	0.0	6.04	5.24	0.00	5.24	0.00	1.92	0.15	0.00	2.06	0.00	20.4	0.0	0.	0.00
386	13.900	31.38	0.0	0.0	0.0	6.13	5.31	0.00	5.31	0.00	1.96	0.15	0.00	2.11	0.00	21.5	0.0	0.	0.00
387	13.800	31.42	0.0	0.0	0.0	6.22	5.36	0.00	5.36	0.00	2.00	0.16	0.00	2.15	0.00	22.7	0.0	0.	0.00
388	13.700	31.46	0.0	0.0	0.0	6.32	5.41	0.00	5.41	0.00	2.03	0.16	0.00	2.19	0.00	23.8	0.0	0.	0.00
389	13.600	31.50	0.0	0.0	0.0	6.41	5.45	0.00	5.45	0.00	2.06	0.16	0.00	2.22	0.00	25.0	0.0	0.	0.00
390	13.500	31.50	0.0	0.0	0.0	6.29	5.48	0.00	5.48	0.00	2.04	0.16	0.00	2.20	0.00	26.4	0.0	0.	0.00
391	13.400	31.50	0.0	0.0	0.0	6.19	5.51	0.00	5.51	0.00	2.03	0.16	0.00	2.19	0.00	27.9	0.0	0.	0.00
392	13.300	31.50	0.0	0.0	0.0	6.10	5.54	0.00	5.54	0.00	2.01	0.16	0.00	2.17	0.00	29.3	0.0	0.	0.00
393	13.200	31.50	0.0	0.0	0.0	6.02	5.57	0.00	5.57	0.00	2.00	0.16	0.00	2.15	0.00	30.8	0.0	0.	0.00
394	13.100	31.50	0.0	0.0	0.0	5.96	5.59	0.00	5.59	0.00	1.98	0.15	0.00	2.14	0.00	32.2	0.0	0.	0.00
395	13.000	31.50	0.0	0.0	0.0	5.91	5.62	0.00	5.62	0.00	1.97	0.15	0.00	2.12	0.00	33.7	0.0	0.	0.00
396	12.900	31.50	0.0	0.0	0.0	5.88	5.65	0.00	5.65	0.00	1.96	0.15	0.00	2.11	0.00	35.1	0.0	0.	0.00
397	12.800	31.50	0.0	0.0	0.0	5.85	5.67	0.00	5.67	0.00	1.94	0.15	0.00	2.09	0.00	36.6	0.0	0.	0.00
398	12.700	31.50	0.0	0.0	0.0	5.84	5.70	0.00	5.70	0.00	1.93	0.15	0.00	2.08	0.00	38.0	0.0	0.	0.00
399	12.600	31.50	0.0	0.0	0.0	5.83	5.71	0.00	5.71	0.00	1.92	0.15	0.00	2.07	0.00	38.0	0.0	0.	0.00
400	12.500	31.50	0.0	0.0	0.0	5.82	5.73	0.00	5.73	0.00	1.91	0.15	0.00	2.06	0.00	38.0	0.0	0.	0.00
401	12.400	31.50	0.0	0.0	0.0	5.82	5.74	0.00	5.74	0.00	1.91	0.15	0.00	2.06	0.00	38.0	0.0	0.	0.00
402	12.300	31.50	0.0	0.0	0.0	5.81	5.76	0.00	5.76	0.00	1.90	0.15	0.00	2.05	0.00	38.0	0.0	0.	0.00
403	12.200	31.50	0.0	0.0	0.0	5.81	5.77	0.00	5.77	0.00	1.90	0.15	0.00	2.04	0.00	38.0	0.0	0.	0.00
404	12.100	31.50	0.0	0.0	0.0	5.80	5.78	0.00	5.78	0.00	1.89	0.15	0.00	2.04	0.00	38.0	0.0	0.	0.00
405	12.000	31.50	0.0	0.0	0.0	5.80	5.80	0.00	5.80	0.00	1.89	0.15	0.00	2.03	0.00	38.0	0.0	0.	0.00
406	11.900	31.50	0.0	0.0	0.0	5.79	5.81	0.00	5.81	0.00	1.88	0.15	0.00	2.03	0.00	38.0	0.0	0.	0.00

407	11.800	31.50	0.0	0.0	0.0	5.79	5.82	0.00	5.82	0.00	1.87	0.15	0.00	2.02	0.00	38.0	0.0	0.	0.00
408	11.700	31.50	0.0	0.0	0.0	5.78	5.84	0.00	5.84	0.00	1.87	0.15	0.00	2.01	0.00	38.0	0.0	0.	0.00
409	11.600	31.50	0.0	0.0	0.0	5.77	5.85	0.00	5.85	0.00	1.86	0.14	0.00	2.01	0.00	38.0	0.0	0.	0.00
410	11.500	31.50	0.0	0.0	0.0	5.77	5.86	0.00	5.86	0.00	1.86	0.14	0.00	2.00	0.00	38.0	0.0	0.	0.00
411	11.400	31.50	0.0	0.0	0.0	5.77	5.88	0.00	5.88	0.00	1.85	0.14	0.00	1.99	0.00	38.0	0.0	0.	0.00
412	11.300	31.50	0.0	0.0	0.0	5.76	5.89	0.00	5.89	0.00	1.85	0.14	0.00	1.99	0.00	38.0	0.0	0.	0.00
413	11.200	31.50	0.0	0.0	0.0	5.76	5.90	0.00	5.90	0.00	1.84	0.14	0.00	1.98	0.00	38.0	0.0	0.	0.00
414	11.100	31.50	0.0	0.0	0.0	5.75	5.91	0.00	5.91	0.00	1.83	0.14	0.00	1.98	0.00	38.0	0.0	0.	0.00
415	11.000	31.50	0.0	0.0	0.0	5.75	5.93	0.00	5.93	0.00	1.83	0.14	0.00	1.97	0.00	38.0	0.0	0.	0.00
416	10.900	31.50	0.0	0.0	0.0	5.74	5.94	0.00	5.94	0.00	1.82	0.14	0.00	1.97	0.00	38.0	0.0	0.	0.00
417	10.800	31.50	0.0	0.0	0.0	5.74	5.95	0.00	5.95	0.00	1.82	0.14	0.00	1.96	0.00	38.0	0.0	0.	0.00
418	10.700	31.50	0.0	0.0	0.0	5.71	5.98	0.00	5.98	0.00	1.81	0.14	0.00	1.95	0.00	38.0	0.0	0.	0.00
419	10.600	31.50	0.0	0.0	0.0	5.68	6.00	0.00	6.00	0.00	1.80	0.14	0.00	1.95	0.00	38.0	0.0	0.	0.00
420	10.500	31.50	0.0	0.0	0.0	5.66	6.03	0.00	6.03	0.00	1.80	0.14	0.00	1.94	0.00	38.0	0.0	0.	0.00
421	10.400	31.50	0.0	0.0	0.0	5.63	6.05	0.00	6.05	0.00	1.79	0.14	0.00	1.93	0.00	38.0	0.0	0.	0.00
422	10.300	31.50	0.0	0.0	0.0	5.61	6.08	0.00	6.08	0.00	1.79	0.14	0.00	1.92	0.00	38.0	0.0	0.	0.00
423	10.200	31.50	0.0	0.0	0.0	5.59	6.10	0.00	6.10	0.00	1.78	0.14	0.00	1.92	0.00	38.0	0.0	0.	0.00
424	10.100	31.50	0.0	0.0	0.0	5.57	6.13	0.00	6.13	0.00	1.77	0.14	0.00	1.91	0.00	38.0	0.0	0.	0.00
425	10.000	31.50	0.0	0.0	0.0	5.54	6.15	0.00	6.15	0.00	1.77	0.14	0.00	1.90	0.00	38.0	0.0	0.	0.00
426	9.900	31.50	0.0	0.0	0.0	5.52	6.17	0.00	6.17	0.00	1.76	0.14	0.00	1.90	0.00	38.0	0.0	0.	0.00
427	9.800	31.50	0.0	0.0	0.0	5.50	6.20	0.00	6.20	0.00	1.75	0.14	0.00	1.89	0.00	38.0	0.0	0.	0.00
428	9.700	31.50	0.0	0.0	0.0	5.48	6.22	0.00	6.22	0.00	1.75	0.14	0.00	1.88	0.00	38.0	0.0	0.	0.00
429	9.600	31.50	0.0	0.0	0.0	5.46	6.25	0.00	6.25	0.00	1.74	0.13	0.00	1.88	0.00	38.0	0.0	0.	0.00
430	9.500	31.50	0.0	0.0	0.0	5.41	6.33	0.00	6.33	0.00	1.78	0.13	0.00	1.91	0.00	38.0	0.0	0.	0.00
431	9.400	31.50	0.0	0.0	0.0	4.69	7.95	0.00	7.95	0.00	2.76	0.10	0.00	2.86	0.00	38.0	0.0	0.	0.00
432	9.300	31.50	0.0	0.0	0.0	4.73	7.94	0.00	7.94	0.00	2.76	0.10	0.00	2.86	0.00	38.0	0.0	0.	0.00
433	9.200	31.57	0.0	0.0	0.0	4.76	7.93	0.00	7.93	0.00	2.76	0.10	0.00	2.86	0.00	38.0	0.0	0.	0.00
434	9.100	31.63	0.0	0.0	0.0	4.82	7.91	0.00	7.91	0.00	2.76	0.10	0.00	2.86	0.00	38.0	0.0	0.	0.00
435	9.000	31.70	0.0	0.0	0.0	4.87	7.88	0.00	7.88	0.00	2.75	0.10	0.00	2.85	0.00	38.0	0.0	0.	0.00
436	8.900	31.77	0.0	0.0	0.0	4.93	7.86	0.00	7.86	0.00	2.75	0.10	0.00	2.85	0.00	38.0	0.0	0.	0.00
437	8.800	31.83	0.0	0.0	0.0	4.98	7.84	0.00	7.84	0.00	2.75	0.10	0.00	2.85	0.00	38.0	0.0	0.	0.00
438	8.700	31.90	0.0	0.0	0.0	5.03	7.82	0.00	7.82	0.00	2.74	0.10	0.00	2.85	0.00	38.0	0.0	0.	0.00
439	8.600	31.97	0.0	0.0	0.0	5.09	7.80	0.00	7.80	0.00	2.74	0.10	0.00	2.84	0.00	38.0	0.0	0.	0.00
440	8.500	32.03	0.0	0.0	0.0	5.14	7.78	0.00	7.78	0.00	2.74	0.11	0.00	2.84	0.00	38.0	0.0	0.	0.00
441	8.400	32.10	0.0	0.0	0.0	5.18	7.76	0.00	7.76	0.00	2.73	0.11	0.00	2.84	0.00	38.0	0.0	0.	0.00
442	8.300	32.17	0.0	0.0	0.0	5.23	7.74	0.00	7.74	0.00	2.73	0.11	0.00	2.84	0.00	38.0	0.0	0.	0.00
443	8.200	32.23	0.0	0.0	0.0	5.28	7.72	0.00	7.72	0.00	2.73	0.11	0.00	2.83	0.00	38.0	0.0	0.	0.00
444	8.100	32.30	0.0	0.0	0.0	5.32	7.70	0.00	7.70	0.00	2.72	0.11	0.00	2.83	0.00	38.0	0.0	0.	0.00
445	8.000	32.30	0.0	0.0	0.0	5.36	7.68	0.00	7.68	0.00	2.72	0.11	0.00	2.83	0.00	37.9	0.0	0.	0.00
446	7.900	32.30	0.0	0.0	0.0	5.40	7.66	0.00	7.66	0.00	2.72	0.11	0.00	2.83	0.00	37.8	0.0	0.	0.00
447	7.800	32.30	0.0	0.0	0.0	5.44	7.64	0.00	7.64	0.00	2.71	0.11	0.00	2.82	0.00	37.7	0.0	0.	0.00
448	7.700	32.30	0.0	0.0	0.0	5.48	7.62	0.00	7.62	0.00	2.71	0.11	0.00	2.82	0.00	37.6	0.0	0.	0.00
449	7.600	32.30	0.0	0.0	0.0	5.51	7.61	0.00	7.61	0.00	2.70	0.11	0.00	2.82	0.00	37.5	0.0	0.	0.00
450	7.500	32.30	0.0	0.0	0.0	5.55	7.59	0.00	7.59	0.00	2.70	0.11	0.00	2.82	0.00	37.3	0.0	0.	0.00
451	7.400	32.30	0.0	0.0	0.0	5.58	7.57	0.00	7.57	0.00	2.70	0.12	0.00	2.81	0.00	37.2	0.0	0.	0.00
452	7.300	32.30	0.0	0.0	0.0	5.62	7.55	0.00	7.55	0.00	2.69	0.12	0.00	2.81	0.00	37.1	0.0	0.	0.00
453	7.200	32.30	0.0	0.0	0.0	5.65	7.53	0.00	7.53	0.00	2.69	0.12	0.00	2.81	0.00	37.0	0.0	0.	0.00
454	7.100	32.30	0.0	0.0	0.0	5.68	7.52	0.00	7.52	0.00	2.69	0.12	0.00	2.80	0.00	36.9	0.0	0.	0.00
455	7.000	32.30	0.0	0.0	0.0	5.71	7.50	0.00	7.50	0.00	2.68	0.12	0.00	2.80	0.00	36.8	0.0	0.	0.00
456	6.900	32.30	0.0	0.0	0.0	5.74	7.48	0.00	7.48	0.00	2.68	0.12	0.00	2.80	0.00	36.7	0.0	0.	0.00

457	6.800	32.30	0.0	0.0	0.0	5.77	7.46	0.00	7.46	0.00	2.68	0.12	0.00	2.80	0.00	36.6	0.0	0.	0.00
458	6.700	32.30	0.0	0.0	0.0	5.80	7.45	0.00	7.45	0.00	2.67	0.12	0.00	2.79	0.00	36.5	0.0	0.	0.00
459	6.600	32.30	0.0	0.0	0.0	5.82	7.43	0.00	7.43	0.00	2.67	0.12	0.00	2.79	0.00	36.4	0.0	0.	0.00
460	6.500	32.30	0.0	0.0	0.0	5.85	7.41	0.00	7.41	0.00	2.67	0.12	0.00	2.79	0.00	36.2	0.0	0.	0.00
461	6.400	32.30	0.0	0.0	0.0	5.87	7.39	0.00	7.39	0.00	2.66	0.12	0.00	2.78	0.00	36.1	0.0	0.	0.00
462	6.300	32.30	0.0	0.0	0.0	5.90	7.38	0.00	7.38	0.00	2.66	0.12	0.00	2.78	0.00	36.0	0.0	0.	0.00
463	6.200	32.30	0.0	0.0	0.0	5.92	7.36	0.00	7.36	0.00	2.66	0.12	0.00	2.78	0.00	35.9	0.0	0.	0.00
464	6.100	32.30	0.0	0.0	0.0	5.95	7.34	0.00	7.34	0.00	2.65	0.12	0.00	2.78	0.00	35.8	0.0	0.	0.00
465	6.000	32.30	0.0	0.0	0.0	5.97	7.33	0.00	7.33	0.00	2.65	0.12	0.00	2.77	0.00	35.7	0.0	0.	0.00
466	5.900	32.30	0.0	0.0	0.0	5.99	7.31	0.00	7.31	0.00	2.65	0.13	0.00	2.77	0.00	35.6	0.0	0.	0.00
467	5.800	32.30	0.0	0.0	0.0	6.01	7.29	0.00	7.29	0.00	2.64	0.13	0.00	2.77	0.00	35.5	0.0	0.	0.00
468	5.700	32.30	0.0	0.0	0.0	6.03	7.27	0.00	7.27	0.00	2.64	0.13	0.00	2.76	0.00	35.4	0.0	0.	0.00
469	5.600	32.30	0.0	0.0	0.0	6.05	7.26	0.00	7.26	0.00	2.64	0.13	0.00	2.76	0.00	35.3	0.0	0.	0.00
470	5.500	32.30	0.0	0.0	0.0	6.07	7.24	0.00	7.24	0.00	2.63	0.13	0.00	2.76	0.00	35.2	0.0	0.	0.00
471	5.400	32.30	0.0	0.0	0.0	6.09	7.22	0.00	7.22	0.00	2.63	0.13	0.00	2.76	0.00	35.0	0.0	0.	0.00
472	5.300	32.30	0.0	0.0	0.0	6.11	7.21	0.00	7.21	0.00	2.62	0.13	0.00	2.75	0.00	34.9	0.0	0.	0.00
473	5.200	32.30	0.0	0.0	0.0	6.12	7.19	0.00	7.19	0.00	2.62	0.13	0.00	2.75	0.00	34.8	0.0	0.	0.00
474	5.100	32.30	0.0	0.0	0.0	6.14	7.18	0.00	7.18	0.00	2.62	0.13	0.00	2.75	0.00	34.7	0.0	0.	0.00
475	5.000	32.30	0.0	0.0	0.0	6.16	7.16	0.00	7.16	0.00	2.61	0.13	0.00	2.74	0.00	34.6	0.0	0.	0.00
476	4.900	32.30	0.0	0.0	0.0	6.17	7.14	0.00	7.14	0.00	2.61	0.13	0.00	2.74	0.00	34.5	0.0	0.	0.00
477	4.800	32.30	0.0	0.0	0.0	6.19	7.13	0.00	7.13	0.00	2.61	0.13	0.00	2.74	0.00	34.4	0.0	0.	0.00
478	4.700	32.30	0.0	0.0	0.0	6.20	7.11	0.00	7.11	0.00	2.60	0.13	0.00	2.74	0.00	34.3	0.0	0.	0.00
479	4.600	32.30	0.0	0.0	0.0	6.21	7.09	0.00	7.09	0.00	2.60	0.13	0.00	2.73	0.00	34.2	0.0	0.	0.00
480	4.500	32.30	0.0	0.0	0.0	6.23	7.08	0.00	7.08	0.00	2.60	0.13	0.00	2.73	0.00	34.1	0.0	0.	0.00
481	4.400	32.30	0.0	0.0	0.0	6.24	7.06	0.00	7.06	0.00	2.59	0.13	0.00	2.73	0.00	33.9	0.0	0.	0.00
482	4.300	32.30	0.0	0.0	0.0	6.25	7.05	0.00	7.05	0.00	2.59	0.13	0.00	2.72	0.00	33.8	0.0	0.	0.00
483	4.200	32.30	0.0	0.0	0.0	6.26	7.03	0.00	7.03	0.00	2.59	0.13	0.00	2.72	0.00	33.7	0.0	0.	0.00
484	4.100	32.30	0.0	0.0	0.0	6.28	7.01	0.00	7.01	0.00	2.59	0.13	0.00	2.72	0.00	33.6	0.0	0.	0.00
485	4.000	32.30	0.0	0.0	0.0	6.29	7.00	0.00	7.00	0.00	2.58	0.13	0.00	2.72	0.00	33.5	0.0	0.	0.00
486	3.900	32.30	0.0	0.0	0.0	6.30	6.98	0.00	6.98	0.00	2.58	0.13	0.00	2.71	0.00	33.4	0.0	0.	0.00
487	3.800	32.30	0.0	0.0	0.0	6.31	6.97	0.00	6.97	0.00	2.58	0.13	0.00	2.71	0.00	33.3	0.0	0.	0.00
488	3.700	32.30	0.0	0.0	0.0	6.32	6.95	0.00	6.95	0.00	2.57	0.14	0.00	2.71	0.00	33.2	0.0	0.	0.00
489	3.600	32.30	0.0	0.0	0.0	6.32	6.94	0.00	6.94	0.00	2.57	0.14	0.00	2.70	0.00	33.1	0.0	0.	0.00
490	3.500	32.30	0.0	0.0	0.0	6.33	6.92	0.00	6.92	0.00	2.57	0.14	0.00	2.70	0.00	33.0	0.0	0.	0.00
491	3.400	32.30	0.0	0.0	0.0	6.34	6.91	0.00	6.91	0.00	2.56	0.14	0.00	2.70	0.00	32.8	0.0	0.	0.00
492	3.300	32.30	0.0	0.0	0.0	6.35	6.89	0.00	6.89	0.00	2.56	0.14	0.00	2.70	0.00	32.7	0.0	0.	0.00
493	3.200	32.30	0.0	0.0	0.0	6.36	6.88	0.00	6.88	0.00	2.56	0.14	0.00	2.69	0.00	32.6	0.0	0.	0.00
494	3.100	32.30	0.0	0.0	0.0	6.36	6.86	0.00	6.86	0.00	2.55	0.14	0.00	2.69	0.00	32.5	0.0	0.	0.00
495	3.000	32.30	0.0	0.0	0.0	6.37	6.85	0.00	6.85	0.00	2.55	0.14	0.00	2.69	0.00	32.4	0.0	0.	0.00
496	2.900	32.30	0.0	0.0	0.0	6.38	6.83	0.00	6.83	0.00	2.55	0.14	0.00	2.68	0.00	32.3	0.0	0.	0.00
497	2.800	32.30	0.0	0.0	0.0	6.38	6.82	0.00	6.82	0.00	2.54	0.14	0.00	2.68	0.00	32.2	0.0	0.	0.00
498	2.700	32.30	0.0	0.0	0.0	6.39	6.80	0.00	6.80	0.00	2.54	0.14	0.00	2.68	0.00	32.1	0.0	0.	0.00
499	2.600	32.30	0.0	0.0	0.0	6.39	6.79	0.00	6.79	0.00	2.54	0.14	0.00	2.68	0.00	32.0	0.0	0.	0.00
500	2.500	32.30	0.0	0.0	0.0	6.40	6.77	0.00	6.77	0.00	2.53	0.14	0.00	2.67	0.00	31.9	0.0	0.	0.00
501	2.400	32.30	0.0	0.0	0.0	6.40	6.76	0.00	6.76	0.00	2.53	0.14	0.00	2.67	0.00	31.8	0.0	0.	0.00
502	2.300	32.30	0.0	0.0	0.0	6.40	6.74	0.00	6.74	0.00	2.53	0.14	0.00	2.67	0.00	31.6	0.0	0.	0.00
503	2.200	32.30	0.0	0.0	0.0	6.41	6.73	0.00	6.73	0.00	2.52	0.14	0.00	2.66	0.00	31.5	0.0	0.	0.00
504	2.100	32.30	0.0	0.0	0.0	6.41	6.71	0.00	6.71	0.00	2.52	0.14	0.00	2.66	0.00	31.4	0.0	0.	0.00
505	2.000	32.30	0.0	0.0	0.0	6.42	6.70	0.00	6.70	0.00	2.52	0.14	0.00	2.66	0.00	31.3	0.0	0.	0.00
506	1.900	32.30	0.0	0.0	0.0	6.42	6.68	0.00	6.68	0.00	2.51	0.14	0.00	2.66	0.00	31.2	0.0	0.	0.00

507	1.800	32.30	0.0	0.0	0.0	6.42	6.67	0.00	6.67	0.00	2.51	0.14	0.00	2.65	0.00	31.1	0.0	0.	0.00
508	1.700	32.30	0.0	0.0	0.0	6.42	6.66	0.00	6.66	0.00	2.51	0.14	0.00	2.65	0.00	31.0	0.0	0.	0.00
509	1.600	32.30	0.0	0.0	0.0	6.42	6.64	0.00	6.64	0.00	2.51	0.14	0.00	2.65	0.00	30.9	0.0	0.	0.00
510	1.500	32.30	0.0	0.0	0.0	6.43	6.63	0.00	6.63	0.00	2.50	0.14	0.00	2.64	0.00	30.8	0.0	0.	0.00
511	1.400	32.30	0.0	0.0	0.0	6.43	6.61	0.00	6.61	0.00	2.50	0.14	0.00	2.64	0.00	30.7	0.0	0.	0.00
512	1.300	32.30	0.0	0.0	0.0	6.43	6.60	0.00	6.60	0.00	2.50	0.14	0.00	2.64	0.00	30.5	0.0	0.	0.00
513	1.200	32.30	0.0	0.0	0.0	6.43	6.59	0.00	6.59	0.00	2.49	0.14	0.00	2.64	0.00	30.4	0.0	0.	0.00
514	1.100	32.30	0.0	0.0	0.0	6.43	6.57	0.00	6.57	0.00	2.49	0.14	0.00	2.63	0.00	30.3	0.0	0.	0.00
515	1.000	32.30	0.0	0.0	0.0	6.43	6.56	0.00	6.56	0.00	2.49	0.14	0.00	2.63	0.00	30.2	0.0	0.	0.00
516	0.900	32.30	0.0	0.0	0.0	6.43	6.54	0.00	6.54	0.00	2.48	0.14	0.00	2.63	0.00	30.1	0.0	0.	0.00
517	0.800	32.30	0.0	0.0	0.0	6.43	6.53	0.00	6.53	0.00	2.48	0.14	0.00	2.62	0.00	30.0	0.0	0.	0.00
518	0.700	32.30	0.0	0.0	0.0	6.43	6.52	0.00	6.52	0.00	2.48	0.14	0.00	2.62	0.00	29.2	0.0	0.	0.00
519	0.600	32.30	0.0	0.0	0.0	6.42	6.50	0.00	6.50	0.00	2.47	0.14	0.00	2.62	0.00	28.5	0.0	0.	0.00
520	0.500	32.30	0.0	0.0	0.0	6.42	6.49	0.00	6.49	0.00	2.47	0.14	0.00	2.62	0.00	27.8	0.0	0.	0.00
521	0.400	32.30	0.0	0.0	0.0	6.41	6.48	0.00	6.48	0.00	2.47	0.14	0.00	2.61	0.00	27.0	0.0	0.	0.00
522	0.300	32.30	0.0	0.0	0.0	6.40	6.46	0.00	6.46	0.00	2.47	0.14	0.00	2.61	0.00	26.2	0.0	0.	0.00
523	0.200	32.30	0.0	0.0	0.0	6.39	6.45	0.00	6.45	0.00	2.46	0.14	0.00	2.61	0.00	25.5	0.0	0.	0.00
524	0.100	32.30	0.0	0.0	0.0	6.38	6.44	0.00	6.44	0.00	2.46	0.14	0.00	2.60	0.00	24.8	0.0	0.	0.00
525	0.000	32.30	0.0	0.0	0.0	6.35	6.52	0.00	6.52	0.00	2.44	0.14	0.00	2.58	0.00	24.0	0.0	0.	0.00

SPECIAL REPORT: Bayou Chene

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	ABOD#2 SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORG-N SETT **	ORG-N DECAY **	NH3 SRCE 1/da	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
1	35.000	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.07	5.07	0.02	0.00	0.35	0.00	0.00	0.00	5.87	0.00	0.00	0.00	0.00	
2	34.900	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.07	5.07	0.02	0.00	0.35	0.00	0.00	0.00	5.89	0.00	0.00	0.00	0.00	
3	34.800	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.08	5.08	0.02	0.00	0.35	0.00	0.00	0.00	5.91	0.00	0.00	0.00	0.00	
4	34.700	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.08	5.08	0.03	0.00	0.35	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00	
5	34.600	7.39	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.09	5.09	0.03	0.00	0.35	0.00	0.00	0.00	5.94	0.00	0.00	0.00	0.00	
6	34.500	7.39	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.10	5.10	0.03	0.00	0.35	0.00	0.00	0.00	5.96	0.00	0.00	0.00	0.00	
7	34.400	7.39	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.10	5.10	0.03	0.00	0.35	0.00	0.00	0.00	5.98	0.00	0.00	0.00	0.00	
8	34.300	7.39	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.11	5.11	0.03	0.00	0.35	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	
9	34.200	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.11	5.11	0.03	0.00	0.35	0.00	0.00	0.00	6.01	0.00	0.00	0.00	0.00	
10	34.100	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.12	5.12	0.03	0.00	0.35	0.00	0.00	0.00	6.03	0.00	0.00	0.00	0.00	
11	34.000	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.13	5.13	0.03	0.00	0.36	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00	
12	33.900	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.13	5.13	0.03	0.00	0.36	0.00	0.00	0.00	6.07	0.00	0.00	0.00	0.00	
13	33.800	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.14	5.14	0.03	0.00	0.36	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00	
14	33.700	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.14	5.14	0.03	0.00	0.36	0.00	0.00	0.00	6.10	0.00	0.00	0.00	0.00	
15	33.600	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.15	5.15	0.03	0.00	0.36	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.00	
16	33.500	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.15	5.15	0.03	0.00	0.36	0.00	0.00	0.00	6.14	0.00	0.00	0.00	0.00	
17	33.400	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.16	5.16	0.03	0.00	0.36	0.00	0.00	0.00	6.16	0.00	0.00	0.00	0.00	
18	33.300	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.17	5.17	0.03	0.00	0.36	0.00	0.00	0.00	6.17	0.00	0.00	0.00	0.00	
19	33.200	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.17	5.17	0.03	0.00	0.36	0.00	0.00	0.00	6.19	0.00	0.00	0.00	0.00	
20	33.100	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.03	0.00	0.36	0.00	0.00	0.00	6.21	0.00	0.00	0.00	0.00	
21	33.000	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.18	5.18	0.03	0.00	0.36	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00	
22	32.900	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.19	5.19	0.03	0.00	0.36	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00	
23	32.800	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.20	5.20	0.03	0.00	0.36	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00	
24	32.700	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.20	5.20	0.03	0.00	0.36	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00	
25	32.600	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.21	5.21	0.03	0.00	0.36	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00	
26	32.500	7.35	2.31	0.21	0.00	0.00	0.00	0.00	0.00	5.21	5.21	0.03	0.00	0.36	0.00	0.00	0.00	6.32	0.00	0.00	0.00	0.00	

27	32.400	7.34	2.31	0.21	0.00	0.00	0.00	0.00	0.00	5.22	5.22	0.03	0.00	0.36	0.00	0.00	0.00	6.34	0.00	0.00	0.00	0.00
28	32.300	7.34	2.31	0.21	0.00	0.00	0.00	0.00	0.00	5.23	5.23	0.03	0.00	0.36	0.00	0.00	0.00	6.36	0.00	0.00	0.00	0.00
29	32.200	7.34	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.23	5.23	0.03	0.00	0.36	0.00	0.00	0.00	6.37	0.00	0.00	0.00	0.00
30	32.100	7.34	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.24	5.24	0.03	0.00	0.37	0.00	0.00	0.00	6.39	0.00	0.00	0.00	0.00
31	32.000	7.33	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.24	5.24	0.03	0.00	0.37	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
32	31.900	7.33	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.25	5.25	0.03	0.00	0.37	0.00	0.00	0.00	6.43	0.00	0.00	0.00	0.00
33	31.800	7.33	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.26	5.26	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
34	31.700	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
35	31.600	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
36	31.500	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00
37	31.400	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00
38	31.300	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00
39	31.200	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
40	31.100	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
41	31.000	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
42	30.900	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
43	30.800	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
44	30.700	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
45	30.600	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.49	0.00	0.00	0.00	0.00
46	30.500	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.49	0.00	0.00	0.00	0.00
47	30.400	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
48	30.300	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
49	30.200	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00
50	30.100	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
51	30.000	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
52	29.900	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
53	29.800	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00
54	29.700	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00
55	29.600	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00
56	29.500	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00
57	29.400	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00
58	29.300	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00
59	29.200	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00
60	29.100	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00
61	29.000	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00
62	28.900	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
63	28.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
64	28.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
65	28.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
66	28.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
67	28.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
68	28.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
69	28.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
70	28.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
71	28.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
72	27.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
73	27.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
74	27.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
75	27.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
76	27.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00

77	27.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
78	27.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
79	27.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
80	27.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
81	27.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
82	26.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
83	26.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
84	26.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
85	26.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
86	26.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
87	26.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
88	26.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
89	26.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
90	26.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
91	26.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
92	25.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
93	25.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
94	25.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
95	25.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
96	25.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
97	25.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
98	25.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
99	25.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
100	25.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
101	25.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
102	24.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
103	24.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
104	24.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
105	24.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
106	24.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
107	24.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
108	24.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
109	24.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
110	24.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
111	24.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
112	23.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
113	23.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
114	23.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
115	23.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
116	23.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
117	23.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
118	23.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
119	23.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
120	23.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
121	23.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
122	22.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
123	22.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
124	22.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
125	22.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
126	22.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00

127	22.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
128	22.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
129	22.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
130	22.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
131	22.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
132	21.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
133	21.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
134	21.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
135	21.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
136	21.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
137	21.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
138	21.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
139	21.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
140	21.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
141	21.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
142	20.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
143	20.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
144	20.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
145	20.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
146	20.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
147	20.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
148	20.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
149	20.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
150	20.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
151	20.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
152	19.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
153	19.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
154	19.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
155	19.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
156	19.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
157	19.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
158	19.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
159	19.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
160	19.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.88	0.00	0.00	0.00	0.00
161	19.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
162	18.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
163	18.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
164	18.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
165	18.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
166	18.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
167	18.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
168	18.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
169	18.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
170	18.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
171	18.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
172	17.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
173	17.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
174	17.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
175	17.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00
176	17.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.35	0.00	0.00	0.00	0.00

177	17.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.32	0.00	0.00	0.00	0.00
178	17.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00
179	17.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00
180	17.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.22	0.00	0.00	0.00	0.00
181	17.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.18	0.00	0.00	0.00	0.00
182	16.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.15	0.00	0.00	0.00	0.00
183	16.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.00
184	16.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00
185	16.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
186	16.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.02	0.00	0.00	0.00	0.00
187	16.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.98	0.00	0.00	0.00	0.00
188	16.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.95	0.00	0.00	0.00	0.00
189	16.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00
190	16.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.89	0.00	0.00	0.00	0.00
191	16.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.85	0.00	0.00	0.00	0.00
192	15.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.82	0.00	0.00	0.00	0.00
193	15.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.79	0.00	0.00	0.00	0.00
194	15.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00
195	15.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.72	0.00	0.00	0.00	0.00
196	15.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.69	0.00	0.00	0.00	0.00
197	15.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.65	0.00	0.00	0.00	0.00
198	15.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.62	0.00	0.00	0.00	0.00
199	15.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.59	0.00	0.00	0.00	0.00
200	15.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00
201	15.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.52	0.00	0.00	0.00	0.00
202	14.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.00
203	14.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.46	0.00	0.00	0.00	0.00
204	14.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.42	0.00	0.00	0.00	0.00
205	14.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.39	0.00	0.00	0.00	0.00
206	14.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.36	0.00	0.00	0.00	0.00
207	14.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.32	0.00	0.00	0.00	0.00
208	14.300	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.29	0.00	0.00	0.00	0.00
209	14.200	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.26	0.00	0.00	0.00	0.00
210	14.100	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.22	0.00	0.00	0.00	0.00
211	14.000	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.00
212	13.900	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
213	13.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
214	13.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00
215	13.600	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00
216	13.500	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00
217	13.400	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00
218	13.300	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00
219	13.200	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.86	0.00	0.00	0.00	0.00
220	13.100	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.81	0.00	0.00	0.00	0.00
221	13.000	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.77	0.00	0.00	0.00	0.00
222	12.900	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.73	0.00	0.00	0.00	0.00
223	12.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.69	0.00	0.00	0.00	0.00
224	12.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.64	0.00	0.00	0.00	0.00
225	12.600	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00
226	12.500	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.56	0.00	0.00	0.00	0.00

227	12.400	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.51	0.00	0.00	0.00	0.00
228	12.300	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.47	0.00	0.00	0.00	0.00
229	12.200	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.43	0.00	0.00	0.00	0.00
230	12.100	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.38	0.00	0.00	0.00	0.00
231	12.000	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00
232	11.900	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00
233	11.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.26	0.00	0.00	0.00	0.00
234	11.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.00
235	11.600	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.17	0.00	0.00	0.00	0.00
236	11.500	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.13	0.00	0.00	0.00	0.00
237	11.400	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.08	0.00	0.00	0.00	0.00
238	11.300	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.04	0.00	0.00	0.00	0.00
239	11.200	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00
240	11.100	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.95	0.00	0.00	0.00	0.00
241	11.000	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.91	0.00	0.00	0.00	0.00
242	10.900	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.87	0.00	0.00	0.00	0.00
243	10.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00
244	10.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00
245	10.600	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.74	0.00	0.00	0.00	0.00
246	10.500	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00
247	10.400	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.65	0.00	0.00	0.00	0.00
248	10.300	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.61	0.00	0.00	0.00	0.00
249	10.200	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00
250	10.100	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.52	0.00	0.00	0.00	0.00
251	10.000	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.48	0.00	0.00	0.00	0.00
252	9.900	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.44	0.00	0.00	0.00	0.00
253	9.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.42	0.00	0.00	0.00	0.00
254	9.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.40	0.00	0.00	0.00	0.00
255	9.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.37	0.00	0.00	0.00	0.00
256	9.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00
257	9.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00
258	9.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00
259	9.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
260	9.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00
261	9.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00
262	8.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
263	8.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00
264	8.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.00
265	8.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00
266	8.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00
267	8.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00
268	8.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00
269	8.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
270	8.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
271	8.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
272	7.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
273	7.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
274	7.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
275	7.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
276	7.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00

277	7.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
278	7.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
279	7.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
280	7.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
281	7.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
282	6.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
283	6.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
284	6.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
285	6.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
286	6.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00
287	6.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
288	6.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
289	6.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.63	0.00	0.00	0.00	0.00
290	6.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.61	0.00	0.00	0.00	0.00
291	6.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.59	0.00	0.00	0.00	0.00
292	5.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00
293	5.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.54	0.00	0.00	0.00	0.00
294	5.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.52	0.00	0.00	0.00	0.00
295	5.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00
296	5.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.48	0.00	0.00	0.00	0.00
297	5.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.46	0.00	0.00	0.00	0.00
298	5.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.43	0.00	0.00	0.00	0.00
299	5.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.41	0.00	0.00	0.00	0.00
300	5.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.39	0.00	0.00	0.00	0.00
301	5.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00
302	4.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.35	0.00	0.00	0.00	0.00
303	4.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.33	0.00	0.00	0.00	0.00
304	4.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00
305	4.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00
306	4.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00
307	4.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
308	4.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
309	4.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
310	4.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00
311	4.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
312	3.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
313	3.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
314	3.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
315	3.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
316	3.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
317	3.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
318	3.300	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
319	3.200	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
320	3.100	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
321	3.000	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
322	2.900	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
323	2.800	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
324	2.700	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
325	2.600	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
326	2.500	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00

327	2.400	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
328	2.300	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
329	2.200	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
330	2.100	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
331	2.000	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
332	1.900	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
333	1.800	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
334	1.700	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
335	1.600	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
336	1.500	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
337	1.400	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.37	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
338	1.300	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
339	1.200	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
340	1.100	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
341	1.000	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
342	0.900	7.27	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
343	0.800	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
344	0.700	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
345	0.600	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
526	0.500	7.27	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
527	0.400	7.27	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
528	0.300	7.27	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
529	0.200	7.28	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
530	0.100	7.28	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
531	0.000	7.28	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00

SPECIAL REPORT: Station 935

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#1 SETT *	BOD#2 DECAY *	BOD#2 SETT 1/da	ABOD#2 SOD 1/da	FULL SOD *	CORR DECAY 1/da	ORG-N SETT *	ORG-N DECAY **	NH3 SRCE **	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
346	17.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
347	17.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
348	17.700	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00
349	17.600	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
350	17.500	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
351	17.400	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
352	17.300	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
353	17.200	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
354	17.100	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
355	17.000	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
356	16.900	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
357	16.800	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
358	16.700	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
359	16.600	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
360	16.500	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
361	16.400	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
362	16.300	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
363	16.200	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
364	16.100	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
365	16.000	7.42	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00

366	15.900	7.43	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
367	15.800	7.43	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
368	15.700	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
369	15.600	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
370	15.500	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
371	15.400	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
372	15.300	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
373	15.200	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
374	15.100	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
375	15.000	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
376	14.900	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.02	0.00	0.23	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
377	14.800	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
378	14.700	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
379	14.600	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	0.02	0.00	0.23	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
380	14.500	7.41	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	0.02	0.00	0.23	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
381	14.400	7.41	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
382	14.300	7.40	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
383	14.200	7.40	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	0.03	0.00	0.23	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
384	14.100	7.39	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
385	14.000	7.39	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
386	13.900	7.38	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	0.03	0.00	0.24	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
387	13.800	7.38	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	0.03	0.00	0.24	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
388	13.700	7.37	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.24	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
389	13.600	7.37	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.24	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
390	13.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
391	13.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.36	0.00	0.00	0.00	0.00
392	13.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.49	0.00	0.00	0.00	0.00
393	13.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.61	0.00	0.00	0.00	0.00
394	13.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.36	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00
395	13.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
396	12.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
397	12.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00
398	12.700	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
399	12.600	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
400	12.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
401	12.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
402	12.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
403	12.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
404	12.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
405	12.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
406	11.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
407	11.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
408	11.700	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
409	11.600	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
410	11.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
411	11.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
412	11.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
413	11.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
414	11.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
415	11.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00

416	10.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
417	10.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
418	10.700	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
419	10.600	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
420	10.500	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
421	10.400	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
422	10.300	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
423	10.200	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
424	10.100	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
425	10.000	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
426	9.900	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
427	9.800	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
428	9.700	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
429	9.600	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
430	9.500	7.37	0.62	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
431	9.400	7.37	0.75	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.34	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
432	9.300	7.37	0.75	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	0.03	0.00	0.34	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
433	9.200	7.36	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.11	3.11	0.03	0.00	0.34	0.00	0.00	0.00	3.23	0.00	0.00	0.00	0.00
434	9.100	7.35	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.12	3.12	0.03	0.00	0.34	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00
435	9.000	7.34	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.13	3.13	0.03	0.00	0.35	0.00	0.00	0.00	3.25	0.00	0.00	0.00	0.00
436	8.900	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	0.03	0.00	0.35	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00
437	8.800	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.03	0.00	0.35	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
438	8.700	7.32	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	0.03	0.00	0.35	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00
439	8.600	7.31	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	0.03	0.00	0.36	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
440	8.500	7.30	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	0.03	0.00	0.36	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00
441	8.400	7.29	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	0.03	0.00	0.36	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00
442	8.300	7.28	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	0.03	0.00	0.37	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00
443	8.200	7.28	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	0.03	0.00	0.37	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00
444	8.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.34	0.00	0.00	0.00	0.00
445	8.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00
446	7.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00
447	7.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00
448	7.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00
449	7.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
450	7.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00
451	7.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00
452	7.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
453	7.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00
454	7.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.25	0.00	0.00	0.00	0.00
455	7.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00
456	6.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.23	0.00	0.00	0.00	0.00
457	6.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00
458	6.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00
459	6.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00
460	6.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
461	6.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.00
462	6.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.17	0.00	0.00	0.00	0.00
463	6.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.16	0.00	0.00	0.00	0.00
464	6.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00
465	6.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00

466	5.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00
467	5.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00
468	5.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00
469	5.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00
470	5.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00
471	5.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
472	5.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
473	5.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00
474	5.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
475	5.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
476	4.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00
477	4.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
478	4.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
479	4.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
480	4.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
481	4.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.99	0.00	0.00	0.00	0.00
482	4.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
483	4.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00
484	4.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
485	4.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00
486	3.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
487	3.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
488	3.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00
489	3.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
490	3.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
491	3.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
492	3.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.88	0.00	0.00	0.00	0.00
493	3.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
494	3.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
495	3.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
496	2.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.84	0.00	0.00	0.00	0.00
497	2.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
498	2.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
499	2.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
500	2.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00
501	2.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
502	2.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
503	2.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.77	0.00	0.00	0.00	0.00
504	2.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
505	2.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
506	1.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
507	1.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
508	1.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00
509	1.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
510	1.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
511	1.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00
512	1.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.69	0.00	0.00	0.00	0.00
513	1.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.68	0.00	0.00	0.00	0.00
514	1.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
515	1.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.66	0.00	0.00	0.00	0.00

516	0.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
517	0.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.00
518	0.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00
519	0.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00
520	0.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00
521	0.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00
522	0.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.31	0.00	0.00	0.00	0.00
523	0.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
524	0.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00
525	0.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00

SPECIAL REPORT: Bayou Chene

HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW VELO m³/s	ADVCTV m/s	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	PRISM m³	TIDAL VELO m/s	TIDAL DISPRSN m²/s	MEAN VELO m/s
1	35.10	35.00	30.6613	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
2	35.00	34.90	30.6552	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
3	34.90	34.80	30.6491	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
4	34.80	34.70	30.6431	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
5	34.70	34.60	30.6370	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
6	34.60	34.50	30.6310	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
7	34.50	34.40	30.6249	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
8	34.40	34.30	30.6188	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
9	34.30	34.20	30.6128	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
10	34.20	34.10	30.6067	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
11	34.10	34.00	30.6007	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
12	34.00	33.90	30.5946	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
13	33.90	33.80	30.5885	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
14	33.80	33.70	30.5825	0.227	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.227
15	33.70	33.60	30.5764	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
16	33.60	33.50	30.5704	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
17	33.50	33.40	30.5643	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
18	33.40	33.30	30.5582	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
19	33.30	33.20	30.5522	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
20	33.20	33.10	30.5461	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
21	33.10	33.00	30.5401	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
22	33.00	32.90	30.5340	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
23	32.90	32.80	30.5279	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
24	32.80	32.70	30.5219	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
25	32.70	32.60	30.5158	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
26	32.60	32.50	30.5098	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
27	32.50	32.40	30.5037	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
28	32.40	32.30	30.4976	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
29	32.30	32.20	30.4916	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
30	32.20	32.10	30.4855	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
31	32.10	32.00	30.4795	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
32	32.00	31.90	30.4734	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
33	31.90	31.80	30.4673	0.226	1.00	135.0	13500.	13500.0	135.0	0.	0.000	0.600	0.226
34	31.80	31.70	30.4658	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
35	31.70	31.60	30.4642	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277

36	31.60	31.50	30.4626	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
37	31.50	31.40	30.4610	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
38	31.40	31.30	30.4595	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
39	31.30	31.20	30.4579	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
40	31.20	31.10	30.4563	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
41	31.10	31.00	30.4547	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
42	31.00	30.90	30.4532	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
43	30.90	30.80	30.4516	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
44	30.80	30.70	30.4500	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
45	30.70	30.60	30.4484	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
46	30.60	30.50	30.4469	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
47	30.50	30.40	30.4453	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
48	30.40	30.30	30.4437	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
49	30.30	30.20	30.4421	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
50	30.20	30.10	30.4406	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
51	30.10	30.00	30.4390	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
52	30.00	29.90	30.4374	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
53	29.90	29.80	30.4358	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
54	29.80	29.70	30.4343	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
55	29.70	29.60	30.4327	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
56	29.60	29.50	30.4311	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
57	29.50	29.40	30.4295	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
58	29.40	29.30	30.4280	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
59	29.30	29.20	30.4264	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
60	29.20	29.10	30.4248	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
61	29.10	29.00	30.4232	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
62	29.00	28.90	30.4217	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
63	28.90	28.80	30.4201	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
64	28.80	28.70	30.4185	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
65	28.70	28.60	30.4169	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
66	28.60	28.50	30.4154	0.277	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.277
67	28.50	28.40	30.4138	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
68	28.40	28.30	30.4122	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
69	28.30	28.20	30.4106	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
70	28.20	28.10	30.4090	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
71	28.10	28.00	30.4075	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
72	28.00	27.90	30.4059	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
73	27.90	27.80	30.4043	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
74	27.80	27.70	30.4027	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
75	27.70	27.60	30.4012	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
76	27.60	27.50	30.3996	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
77	27.50	27.40	30.3980	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
78	27.40	27.30	30.3964	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
79	27.30	27.20	30.3949	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
80	27.20	27.10	30.3933	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
81	27.10	27.00	30.3917	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
82	27.00	26.90	30.3901	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
83	26.90	26.80	30.3886	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
84	26.80	26.70	30.3870	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
85	26.70	26.60	30.3854	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276

86	26.60	26.50	30.3838	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
87	26.50	26.40	30.3823	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
88	26.40	26.30	30.3807	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
89	26.30	26.20	30.3791	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
90	26.20	26.10	30.3775	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
91	26.10	26.00	30.3760	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
92	26.00	25.90	30.3744	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
93	25.90	25.80	30.3728	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
94	25.80	25.70	30.3712	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
95	25.70	25.60	30.3697	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
96	25.60	25.50	30.3681	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
97	25.50	25.40	30.3665	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
98	25.40	25.30	30.3649	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
99	25.30	25.20	30.3634	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
100	25.20	25.10	30.3618	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
101	25.10	25.00	30.3602	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
102	25.00	24.90	30.3586	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
103	24.90	24.80	30.3571	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
104	24.80	24.70	30.3555	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
105	24.70	24.60	30.3539	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
106	24.60	24.50	30.3523	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
107	24.50	24.40	30.3508	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
108	24.40	24.30	30.3492	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
109	24.30	24.20	30.3476	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
110	24.20	24.10	30.3460	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
111	24.10	24.00	30.3445	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
112	24.00	23.90	30.3429	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
113	23.90	23.80	30.3413	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
114	23.80	23.70	30.3397	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
115	23.70	23.60	30.3382	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
116	23.60	23.50	30.3366	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
117	23.50	23.40	30.3350	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
118	23.40	23.30	30.3334	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
119	23.30	23.20	30.3319	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
120	23.20	23.10	30.3303	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
121	23.10	23.00	30.3287	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
122	23.00	22.90	30.3271	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
123	22.90	22.80	30.3256	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
124	22.80	22.70	30.3240	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
125	22.70	22.60	30.3224	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
126	22.60	22.50	30.3208	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
127	22.50	22.40	30.3192	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
128	22.40	22.30	30.3177	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
129	22.30	22.20	30.3161	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
130	22.20	22.10	30.3145	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
131	22.10	22.00	30.3129	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
132	22.00	21.90	30.3114	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
133	21.90	21.80	30.3098	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
134	21.80	21.70	30.3082	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
135	21.70	21.60	30.3066	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276

136	21.60	21.50	30.3051	0.276	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.276
137	21.50	21.40	30.3035	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
138	21.40	21.30	30.3019	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
139	21.30	21.20	30.3003	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
140	21.20	21.10	30.2988	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
141	21.10	21.00	30.2972	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
142	21.00	20.90	30.2956	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
143	20.90	20.80	30.2940	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
144	20.80	20.70	30.2925	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
145	20.70	20.60	30.2909	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
146	20.60	20.50	30.2893	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
147	20.50	20.40	30.2877	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
148	20.40	20.30	30.2862	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
149	20.30	20.20	30.2846	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
150	20.20	20.10	30.2830	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
151	20.10	20.00	30.2814	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
152	20.00	19.90	30.2799	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
153	19.90	19.80	30.2783	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
154	19.80	19.70	30.2767	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
155	19.70	19.60	30.2751	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
156	19.60	19.50	30.2736	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
157	19.50	19.40	30.2720	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
158	19.40	19.30	30.2704	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
159	19.30	19.20	30.2688	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
160	19.20	19.10	30.2673	0.275	1.00	110.0	11000.	11000.0	110.0	0.	0.000	0.500	0.275
161	19.10	19.00	22.9577	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
162	19.00	18.90	22.9539	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
163	18.90	18.80	22.9500	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
164	18.80	18.70	22.9462	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
165	18.70	18.60	22.9423	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
166	18.60	18.50	22.9385	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
167	18.50	18.40	22.9346	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
168	18.40	18.30	22.9308	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
169	18.30	18.20	22.9269	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
170	18.20	18.10	22.9231	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
171	18.10	18.00	22.9192	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
172	18.00	17.90	22.9154	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
173	17.90	17.80	22.9115	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
174	17.80	17.70	22.9077	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
175	17.70	17.60	22.9039	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
176	17.60	17.50	22.9000	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
177	17.50	17.40	22.8962	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
178	17.40	17.30	22.8923	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
179	17.30	17.20	22.8885	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
180	17.20	17.10	22.8846	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
181	17.10	17.00	22.8808	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
182	17.00	16.90	22.8769	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
183	16.90	16.80	22.8731	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
184	16.80	16.70	22.8692	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
185	16.70	16.60	22.8654	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144

186	16.60	16.50	22.8615	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
187	16.50	16.40	22.8577	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
188	16.40	16.30	22.8538	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
189	16.30	16.20	22.8500	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
190	16.20	16.10	22.8461	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
191	16.10	16.00	22.8423	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
192	16.00	15.90	22.8384	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
193	15.90	15.80	22.8346	0.144	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.144
194	15.80	15.70	22.8308	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
195	15.70	15.60	22.8269	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
196	15.60	15.50	22.8231	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
197	15.50	15.40	22.8192	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
198	15.40	15.30	22.8154	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
199	15.30	15.20	22.8115	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
200	15.20	15.10	22.8077	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
201	15.10	15.00	22.8038	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
202	15.00	14.90	22.8000	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
203	14.90	14.80	22.7961	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
204	14.80	14.70	22.7923	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
205	14.70	14.60	22.7884	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
206	14.60	14.50	22.7846	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
207	14.50	14.40	22.7807	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
208	14.40	14.30	22.7769	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
209	14.30	14.20	22.7730	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
210	14.20	14.10	22.7692	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
211	14.10	14.00	22.7654	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
212	14.00	13.90	22.7615	0.143	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.400	0.143
213	13.90	13.80	25.0219	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
214	13.80	13.70	25.0169	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
215	13.70	13.60	25.0119	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
216	13.60	13.50	25.0069	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
217	13.50	13.40	25.0019	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
218	13.40	13.30	24.9969	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
219	13.30	13.20	24.9919	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
220	13.20	13.10	24.9869	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
221	13.10	13.00	24.9819	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
222	13.00	12.90	24.9769	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
223	12.90	12.80	24.9719	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
224	12.80	12.70	24.9669	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
225	12.70	12.60	24.9619	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
226	12.60	12.50	24.9569	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
227	12.50	12.40	24.9519	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
228	12.40	12.30	24.9469	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
229	12.30	12.20	24.9419	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
230	12.20	12.10	24.9369	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
231	12.10	12.00	24.9319	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
232	12.00	11.90	24.9269	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
233	11.90	11.80	24.9219	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
234	11.80	11.70	24.9169	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
235	11.70	11.60	24.9119	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091

236	11.60	11.50	24.9069	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
237	11.50	11.40	24.9019	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
238	11.40	11.30	24.8969	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
239	11.30	11.20	24.8919	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
240	11.20	11.10	24.8869	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
241	11.10	11.00	24.8819	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
242	11.00	10.90	24.8769	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
243	10.90	10.80	24.8719	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
244	10.80	10.70	24.8669	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
245	10.70	10.60	24.8619	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
246	10.60	10.50	24.8569	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
247	10.50	10.40	24.8519	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
248	10.40	10.30	24.8469	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
249	10.30	10.20	24.8419	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
250	10.20	10.10	24.8369	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
251	10.10	10.00	24.8319	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
252	10.00	9.90	24.8269	0.091	1.77	155.0	27404.	15500.0	274.0	0.	0.000	0.300	0.091
253	9.90	9.80	5.4832	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
254	9.80	9.70	5.4801	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
255	9.70	9.60	5.4769	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
256	9.60	9.50	5.4737	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
257	9.50	9.40	5.4705	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
258	9.40	9.30	5.4674	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
259	9.30	9.20	5.4642	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
260	9.20	9.10	5.4610	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
261	9.10	9.00	5.4578	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
262	9.00	8.90	5.4547	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
263	8.90	8.80	5.4515	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
264	8.80	8.70	5.4483	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
265	8.70	8.60	5.4451	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
266	8.60	8.50	5.4420	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
267	8.50	8.40	5.4388	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
268	8.40	8.30	5.4356	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
269	8.30	8.20	5.4324	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
270	8.20	8.10	5.4293	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
271	8.10	8.00	5.4261	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
272	8.00	7.90	5.4229	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
273	7.90	7.80	5.4197	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
274	7.80	7.70	5.4166	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
275	7.70	7.60	5.4134	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
276	7.60	7.50	5.4102	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
277	7.50	7.40	5.4070	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
278	7.40	7.30	5.4039	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
279	7.30	7.20	5.4007	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
280	7.20	7.10	5.3975	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
281	7.10	7.00	5.3943	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
282	7.00	6.90	5.3912	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
283	6.90	6.80	5.3880	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
284	6.80	6.70	5.3848	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
285	6.70	6.60	5.3816	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034

286	6.60	6.50	5.3785	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
287	6.50	6.40	5.3753	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
288	6.40	6.30	5.3721	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
289	6.30	6.20	5.3689	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
290	6.20	6.10	5.3658	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
291	6.10	6.00	5.3626	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
292	6.00	5.90	5.3594	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
293	5.90	5.80	5.3562	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
294	5.80	5.70	5.3531	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
295	5.70	5.60	5.3499	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
296	5.60	5.50	5.3467	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
297	5.50	5.40	5.3435	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
298	5.40	5.30	5.3404	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
299	5.30	5.20	5.3372	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
300	5.20	5.10	5.3340	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
301	5.10	5.00	5.3308	0.034	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.034
302	5.00	4.90	5.3277	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
303	4.90	4.80	5.3245	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
304	4.80	4.70	5.3213	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
305	4.70	4.60	5.3181	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
306	4.60	4.50	5.3150	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
307	4.50	4.40	5.3118	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
308	4.40	4.30	5.3086	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
309	4.30	4.20	5.3054	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
310	4.20	4.10	5.3023	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
311	4.10	4.00	5.2991	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
312	4.00	3.90	5.2959	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
313	3.90	3.80	5.2927	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
314	3.80	3.70	5.2896	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
315	3.70	3.60	5.2864	0.033	1.77	90.0	15912.	9000.0	159.1	0.	0.000	0.300	0.033
316	3.60	3.50	5.2797	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
317	3.50	3.40	5.2731	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
318	3.40	3.30	5.2664	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
319	3.30	3.20	5.2597	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
320	3.20	3.10	5.2531	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
321	3.10	3.00	5.2464	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
322	3.00	2.90	5.2397	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
323	2.90	2.80	5.2331	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
324	2.80	2.70	5.2264	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
325	2.70	2.60	5.2197	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
326	2.60	2.50	5.2131	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
327	2.50	2.40	5.2064	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
328	2.40	2.30	5.1997	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
329	2.30	2.20	5.1931	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
330	2.20	2.10	5.1864	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
331	2.10	2.00	5.1797	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
332	2.00	1.90	5.1731	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
333	1.90	1.80	5.1664	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
334	1.80	1.70	5.1597	0.027	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.027
335	1.70	1.60	5.1531	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026

336	1.60	1.50	5.1464	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
337	1.50	1.40	5.1397	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
338	1.40	1.30	5.1331	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
339	1.30	1.20	5.1264	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
340	1.20	1.10	5.1197	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
341	1.10	1.00	5.1131	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
342	1.00	0.90	5.1064	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
343	0.90	0.80	5.0997	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
344	0.80	0.70	5.0931	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
345	0.70	0.60	5.0864	0.026	1.77	110.0	19448.	11000.0	194.5	0.	0.000	0.400	0.026
526	0.60	0.50	8.8101	0.071	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.071
527	0.50	0.40	8.8101	0.071	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.071
528	0.40	0.30	8.8101	0.071	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.071
529	0.30	0.20	8.8101	0.071	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.071
530	0.20	0.10	8.8101	0.071	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.071
531	0.10	0.00	8.8101	0.071	1.40	88.0	12338.	8800.0	123.4	0.	0.000	0.500	0.071

SPECIAL REPORT: Station 935

HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	ADVCTV VELO	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	TIDAL PRISM	TIDAL VELO	DISPRSN	MEAN VELO
	km	km	m³/s	m/s	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
346	18.00	17.90	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
347	17.90	17.80	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
348	17.80	17.70	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
349	17.70	17.60	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
350	17.60	17.50	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
351	17.50	17.40	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
352	17.40	17.30	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
353	17.30	17.20	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
354	17.20	17.10	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
355	17.10	17.00	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
356	17.00	16.90	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
357	16.90	16.80	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
358	16.80	16.70	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
359	16.70	16.60	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
360	16.60	16.50	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
361	16.50	16.40	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
362	16.40	16.30	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
363	16.30	16.20	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
364	16.20	16.10	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
365	16.10	16.00	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
366	16.00	15.90	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
367	15.90	15.80	0.1133	0.002	1.77	35.0	6188.	3500.0	61.9	0.	0.000	0.000	0.002
368	15.80	15.70	0.2841	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000
369	15.70	15.60	0.4550	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000
370	15.60	15.50	0.6258	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000
371	15.50	15.40	0.7966	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000
372	15.40	15.30	0.9675	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000
373	15.30	15.20	1.1383	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000
374	15.20	15.10	1.3092	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000

375	15.10	15.00	1.4800	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000
376	15.00	14.90	1.6509	0.000	1.77	2131.0	376761.	213100.0	3767.6	0.	0.000	0.000	0.000
377	14.90	14.80	1.8038	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
378	14.80	14.70	1.9567	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
379	14.70	14.60	2.1096	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
380	14.60	14.50	2.2625	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
381	14.50	14.40	2.4154	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
382	14.40	14.30	2.5683	0.001	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.001
383	14.30	14.20	2.7212	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
384	14.20	14.10	2.8741	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
385	14.10	14.00	3.0270	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
386	14.00	13.90	3.1799	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
387	13.90	13.80	3.3329	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
388	13.80	13.70	3.4858	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
389	13.70	13.60	3.6387	0.002	1.77	983.0	173794.	98300.0	1737.9	0.	0.000	0.000	0.002
390	13.60	13.50	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
391	13.50	13.40	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
392	13.40	13.30	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
393	13.30	13.20	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
394	13.20	13.10	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
395	13.10	13.00	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
396	13.00	12.90	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
397	12.90	12.80	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
398	12.80	12.70	3.6387	0.014	1.77	148.0	26166.	14800.0	261.7	0.	0.000	0.000	0.014
399	12.70	12.60	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
400	12.60	12.50	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
401	12.50	12.40	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
402	12.40	12.30	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
403	12.30	12.20	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
404	12.20	12.10	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
405	12.10	12.00	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
406	12.00	11.90	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
407	11.90	11.80	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
408	11.80	11.70	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
409	11.70	11.60	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
410	11.60	11.50	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
411	11.50	11.40	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
412	11.40	11.30	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
413	11.30	11.20	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
414	11.20	11.10	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
415	11.10	11.00	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
416	11.00	10.90	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
417	10.90	10.80	3.6387	0.034	1.77	61.0	10785.	6100.0	107.8	0.	0.000	0.300	0.034
418	10.80	10.70	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
419	10.70	10.60	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
420	10.60	10.50	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
421	10.50	10.40	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
422	10.40	10.30	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
423	10.30	10.20	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
424	10.20	10.10	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036

425	10.10	10.00	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
426	10.00	9.90	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
427	9.90	9.80	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
428	9.80	9.70	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
429	9.70	9.60	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
430	9.60	9.50	3.6387	0.036	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.200	0.036
431	9.50	9.40	6.6686	0.066	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.100	0.066
432	9.40	9.30	6.6686	0.066	1.40	72.0	10094.	7200.0	100.9	0.	0.000	0.100	0.066
433	9.30	9.20	3.4709	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
434	9.20	9.10	3.4730	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
435	9.10	9.00	3.4752	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
436	9.00	8.90	3.4773	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
437	8.90	8.80	3.4794	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
438	8.80	8.70	3.4815	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
439	8.70	8.60	3.4837	0.035	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.035
440	8.60	8.50	3.4858	0.036	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.036
441	8.50	8.40	3.4879	0.036	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.036
442	8.40	8.30	3.4900	0.036	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.036
443	8.30	8.20	3.4922	0.036	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.036
444	8.20	8.10	3.4943	0.036	1.40	70.0	9814.	7000.0	98.1	0.	0.000	0.100	0.036
445	8.10	8.00	3.4971	0.038	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.038
446	8.00	7.90	3.4999	0.038	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.038
447	7.90	7.80	3.5027	0.038	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.038
448	7.80	7.70	3.5055	0.038	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.038
449	7.70	7.60	3.5083	0.038	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.038
450	7.60	7.50	3.5110	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
451	7.50	7.40	3.5138	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
452	7.40	7.30	3.5166	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
453	7.30	7.20	3.5194	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
454	7.20	7.10	3.5222	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
455	7.10	7.00	3.5250	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
456	7.00	6.90	3.5278	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
457	6.90	6.80	3.5306	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
458	6.80	6.70	3.5334	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
459	6.70	6.60	3.5362	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
460	6.60	6.50	3.5390	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
461	6.50	6.40	3.5418	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
462	6.40	6.30	3.5446	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
463	6.30	6.20	3.5474	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
464	6.20	6.10	3.5502	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
465	6.10	6.00	3.5529	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
466	6.00	5.90	3.5557	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
467	5.90	5.80	3.5585	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
468	5.80	5.70	3.5613	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
469	5.70	5.60	3.5641	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
470	5.60	5.50	3.5669	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
471	5.50	5.40	3.5697	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
472	5.40	5.30	3.5725	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
473	5.30	5.20	3.5753	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
474	5.20	5.10	3.5781	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039

475	5.10	5.00	3.5809	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
476	5.00	4.90	3.5837	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
477	4.90	4.80	3.5865	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
478	4.80	4.70	3.5893	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
479	4.70	4.60	3.5920	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
480	4.60	4.50	3.5948	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
481	4.50	4.40	3.5976	0.039	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.039
482	4.40	4.30	3.6004	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
483	4.30	4.20	3.6032	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
484	4.20	4.10	3.6060	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
485	4.10	4.00	3.6088	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
486	4.00	3.90	3.6116	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
487	3.90	3.80	3.6144	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
488	3.80	3.70	3.6172	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
489	3.70	3.60	3.6200	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
490	3.60	3.50	3.6228	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
491	3.50	3.40	3.6256	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
492	3.40	3.30	3.6284	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
493	3.30	3.20	3.6311	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
494	3.20	3.10	3.6339	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
495	3.10	3.00	3.6367	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
496	3.00	2.90	3.6395	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
497	2.90	2.80	3.6423	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
498	2.80	2.70	3.6451	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
499	2.70	2.60	3.6479	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
500	2.60	2.50	3.6507	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
501	2.50	2.40	3.6535	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
502	2.40	2.30	3.6563	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
503	2.30	2.20	3.6591	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
504	2.20	2.10	3.6619	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
505	2.10	2.00	3.6647	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
506	2.00	1.90	3.6675	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
507	1.90	1.80	3.6703	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
508	1.80	1.70	3.6730	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
509	1.70	1.60	3.6758	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
510	1.60	1.50	3.6786	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
511	1.50	1.40	3.6814	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
512	1.40	1.30	3.6842	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
513	1.30	1.20	3.6870	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
514	1.20	1.10	3.6898	0.040	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.040
515	1.10	1.00	3.6926	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
516	1.00	0.90	3.6954	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
517	0.90	0.80	3.6982	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
518	0.80	0.70	3.7014	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
519	0.70	0.60	3.7046	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
520	0.60	0.50	3.7077	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
521	0.50	0.40	3.7109	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
522	0.40	0.30	3.7141	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
523	0.30	0.20	3.7173	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041
524	0.20	0.10	3.7205	0.041	1.40	65.0	9113.	6500.0	91.1	0.	0.000	0.100	0.041

525 0.10 0.00 3.7237 0.041 1.40 65.0 9113. 6500.0 91.1 0. 0.000 0.100 0.041
FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 1 Bayou Chene to Blackbird Bayou Calibration Simulation for Lake Penchant and Bayou Penchant mode
********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
1	HDWTR	30.66731	31.50	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	0.00	70.00	0.00	0.00
EACH	INCR	0.01515	31.13	0.00	0.00	0.00	5.00	50.00	0.00			1.30	0.10	0.04	0.00	0.00	0.00	
EACH	INCR	-0.02121																

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
1	35.10	35.00	30.66125	0.0	0.22712	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
2	35.00	34.90	30.65519	0.0	0.22708	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
3	34.90	34.80	30.64913	0.0	0.22703	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
4	34.80	34.70	30.64307	0.0	0.22699	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
5	34.70	34.60	30.63701	0.0	0.22694	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
6	34.60	34.50	30.63095	0.0	0.22690	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
7	34.50	34.40	30.62489	0.0	0.22685	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
8	34.40	34.30	30.61883	0.0	0.22681	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
9	34.30	34.20	30.61277	0.0	0.22676	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
10	34.20	34.10	30.60671	0.0	0.22672	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
11	34.10	34.00	30.60065	0.0	0.22667	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
12	34.00	33.90	30.59459	0.0	0.22663	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
13	33.90	33.80	30.58854	0.0	0.22658	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
14	33.80	33.70	30.58248	0.0	0.22654	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.227
15	33.70	33.60	30.57642	0.0	0.22649	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
16	33.60	33.50	30.57036	0.0	0.22645	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
17	33.50	33.40	30.56430	0.0	0.22640	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
18	33.40	33.30	30.55824	0.0	0.22636	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
19	33.30	33.20	30.55218	0.0	0.22631	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
20	33.20	33.10	30.54612	0.0	0.22627	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
21	33.10	33.00	30.54006	0.0	0.22622	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
22	33.00	32.90	30.53400	0.0	0.22618	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
23	32.90	32.80	30.52794	0.0	0.22613	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
24	32.80	32.70	30.52188	0.0	0.22609	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
25	32.70	32.60	30.51582	0.0	0.22604	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
26	32.60	32.50	30.50976	0.0	0.22600	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
27	32.50	32.40	30.50370	0.0	0.22595	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
28	32.40	32.30	30.49764	0.0	0.22591	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
29	32.30	32.20	30.49158	0.0	0.22586	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
30	32.20	32.10	30.48552	0.0	0.22582	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
31	32.10	32.00	30.47946	0.0	0.22577	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
32	32.00	31.90	30.47340	0.0	0.22573	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
33	31.90	31.80	30.46734	0.0	0.22568	0.01	1.00	135.00	13500.00	13500.00	135.00	0.00	0.000	0.600	0.226
TOT						0.17			445500.00	445500.00					
AVG				0.2264			1.00	135.00			135.00				
CUM						0.17									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	SETT 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY 1/da	ORGN SETT *	ORGN DECAY **	NH3 SRCE **	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD 1/da	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
1	35.000	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.07	5.07	5.07	0.02	0.00	0.35	0.00	0.00	0.00	5.87	0.00	0.00	0.00	0.00		
2	34.900	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.07	5.07	5.07	0.02	0.00	0.35	0.00	0.00	0.00	5.89	0.00	0.00	0.00	0.00		
3	34.800	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.08	5.08	5.08	0.02	0.00	0.35	0.00	0.00	0.00	5.91	0.00	0.00	0.00	0.00		
4	34.700	7.40	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.08	5.08	5.08	0.03	0.00	0.35	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00		
5	34.600	7.39	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.09	5.09	5.09	0.03	0.00	0.35	0.00	0.00	0.00	5.94	0.00	0.00	0.00	0.00		
6	34.500	7.39	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.10	5.10	5.10	0.03	0.00	0.35	0.00	0.00	0.00	5.96	0.00	0.00	0.00	0.00		
7	34.400	7.39	2.30	0.20	0.00	0.00	0.00	0.00	0.00	5.10	5.10	5.10	0.03	0.00	0.35	0.00	0.00	0.00	5.98	0.00	0.00	0.00	0.00		
8	34.300	7.39	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.11	5.11	5.11	0.03	0.00	0.35	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00		
9	34.200	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.11	5.11	5.11	0.03	0.00	0.35	0.00	0.00	0.00	6.01	0.00	0.00	0.00	0.00		
10	34.100	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.12	5.12	5.12	0.03	0.00	0.35	0.00	0.00	0.00	6.03	0.00	0.00	0.00	0.00		
11	34.000	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.13	5.13	5.13	0.03	0.00	0.36	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00		
12	33.900	7.38	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.13	5.13	5.13	0.03	0.00	0.36	0.00	0.00	0.00	6.07	0.00	0.00	0.00	0.00		
13	33.800	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.14	5.14	5.14	0.03	0.00	0.36	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00		
14	33.700	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.14	5.14	5.14	0.03	0.00	0.36	0.00	0.00	0.00	6.10	0.00	0.00	0.00	0.00		
15	33.600	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.15	5.15	5.15	0.03	0.00	0.36	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.00		
16	33.500	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.15	5.15	5.15	0.03	0.00	0.36	0.00	0.00	0.00	6.14	0.00	0.00	0.00	0.00		
17	33.400	7.37	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.16	5.16	5.16	0.03	0.00	0.36	0.00	0.00	0.00	6.16	0.00	0.00	0.00	0.00		
18	33.300	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.17	5.17	5.17	0.03	0.00	0.36	0.00	0.00	0.00	6.17	0.00	0.00	0.00	0.00		
19	33.200	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.17	5.17	5.17	0.03	0.00	0.36	0.00	0.00	0.00	6.19	0.00	0.00	0.00	0.00		
20	33.100	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.03	0.00	0.36	0.00	0.00	0.00	6.21	0.00	0.00	0.00	0.00		
21	33.000	7.36	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.03	0.00	0.36	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00		
22	32.900	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.19	5.19	5.19	0.03	0.00	0.36	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00		
23	32.800	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.20	5.20	5.20	0.03	0.00	0.36	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00		
24	32.700	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.20	5.20	5.20	0.03	0.00	0.36	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00		
25	32.600	7.35	2.31	0.20	0.00	0.00	0.00	0.00	0.00	5.21	5.21	5.21	0.03	0.00	0.36	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00		
26	32.500	7.35	2.31	0.21	0.00	0.00	0.00	0.00	0.00	5.21	5.21	5.21	0.03	0.00	0.36	0.00	0.00	0.00	6.32	0.00	0.00	0.00	0.00		
27	32.400	7.34	2.31	0.21	0.00	0.00	0.00	0.00	0.00	5.22	5.22	5.22	0.03	0.00	0.36	0.00	0.00	0.00	6.34	0.00	0.00	0.00	0.00		
28	32.300	7.34	2.31	0.21	0.00	0.00	0.00	0.00	0.00	5.23	5.23	5.23	0.03	0.00	0.36	0.00	0.00	0.00	6.36	0.00	0.00	0.00	0.00		
29	32.200	7.34	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.23	5.23	5.23	0.03	0.00	0.36	0.00	0.00	0.00	6.37	0.00	0.00	0.00	0.00		
30	32.100	7.34	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.24	5.24	5.24	0.03	0.00	0.37	0.00	0.00	0.00	6.39	0.00	0.00	0.00	0.00		
31	32.000	7.33	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.24	5.24	5.24	0.03	0.00	0.37	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00		
32	31.900	7.33	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.25	5.25	5.25	0.03	0.00	0.37	0.00	0.00	0.00	6.43	0.00	0.00	0.00	0.00		
33	31.800	7.33	2.32	0.21	0.00	0.00	0.00	0.00	0.00	5.26	5.26	5.26	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00		
AVG 20 DEG C RATE			1.87	0.12	0.00	0.00	0.00	0.00	0.00	2.50			0.02	0.00	0.15	0.00	0.00	0.00			0.00	0.00	0.00		

* $g/m^2/d$ ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN µg/L	PHOS g/m^3	CHL A	MACRO #/100mL	COLI	NCM
1	35.000	31.22	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.26	0.00	70.15	0.00	0.	0.00
2	34.900	31.24	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.26	0.00	70.30	0.00	0.	0.00
3	34.800	31.25	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.56	2.25	0.00	70.45	0.00	0.	0.00
4	34.700	31.27	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.61	0.00	0.	0.00
5	34.600	31.29	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.76	0.00	0.	0.00
6	34.500	31.31	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	70.91	0.00	0.	0.00
7	34.400	31.33	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.25	0.00	71.06	0.00	0.	0.00
8	34.300	31.35	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.24	0.00	71.21	0.00	0.	0.00
9	34.200	31.36	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.55	2.24	0.00	71.36	0.00	0.	0.00

10	34.100	31.38	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.52	0.00	0.	0.00
11	34.000	31.40	0.00	0.00	0.00	6.20	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.67	0.00	0.	0.00
12	33.900	31.42	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.24	0.00	71.82	0.00	0.	0.00
13	33.800	31.44	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.23	0.00	71.97	0.00	0.	0.00
14	33.700	31.45	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.60	0.10	0.54	2.23	0.00	72.12	0.00	0.	0.00
15	33.600	31.47	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.54	2.23	0.00	72.27	0.00	0.	0.00
16	33.500	31.49	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	72.42	0.00	0.	0.00
17	33.400	31.51	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	72.58	0.00	0.	0.00
18	33.300	31.53	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.23	0.00	72.73	0.00	0.	0.00
19	33.200	31.55	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	72.88	0.00	0.	0.00
20	33.100	31.56	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	73.03	0.00	0.	0.00
21	33.000	31.58	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.53	2.22	0.00	73.18	0.00	0.	0.00
22	32.900	31.60	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.22	0.00	73.33	0.00	0.	0.00
23	32.800	31.62	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.22	0.00	73.48	0.00	0.	0.00
24	32.700	31.64	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	73.64	0.00	0.	0.00
25	32.600	31.65	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	73.79	0.00	0.	0.00
26	32.500	31.67	0.00	0.00	0.00	6.21	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	73.94	0.00	0.	0.00
27	32.400	31.69	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.52	2.21	0.00	74.09	0.00	0.	0.00
28	32.300	31.71	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.21	0.00	74.24	0.00	0.	0.00
29	32.200	31.73	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.39	0.00	0.	0.00
30	32.100	31.75	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.55	0.00	0.	0.00
31	32.000	31.76	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.70	0.00	0.	0.00
32	31.900	31.78	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	74.85	0.00	0.	0.00
33	31.800	31.80	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	2.20	0.00	75.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 2 Blackbird Bayou to 120401-G Calibration Simulation for Lake Penchant and Bayou Penchant mode

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
34	UPR RCH	30.46734	31.80	0.00	0.00	0.00	6.22	16.08	0.00	16.08	0.00	1.59	0.10	0.51	0.00	75.00	0.00	0.00
EACH	INCR	0.03937	31.13	0.00	0.00	0.00	5.00	50.00	0.00		3.10	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.04094																

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
34	31.80	31.70	30.46577	0.0	0.27696	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
35	31.70	31.60	30.46419	0.0	0.27695	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
36	31.60	31.50	30.46262	0.0	0.27693	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
37	31.50	31.40	30.46104	0.0	0.27692	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
38	31.40	31.30	30.45947	0.0	0.27690	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
39	31.30	31.20	30.45789	0.0	0.27689	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
40	31.20	31.10	30.45631	0.0	0.27688	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
41	31.10	31.00	30.45474	0.0	0.27686	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
42	31.00	30.90	30.45316	0.0	0.27685	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
43	30.90	30.80	30.45159	0.0	0.27683	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
44	30.80	30.70	30.45001	0.0	0.27682	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
45	30.70	30.60	30.44844	0.0	0.27680	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
46	30.60	30.50	30.44686	0.0	0.27679	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
47	30.50	30.40	30.44529	0.0	0.27678	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277

48	30.40	30.30	30.44371	0.0	0.27676	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
49	30.30	30.20	30.44213	0.0	0.27675	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
50	30.20	30.10	30.44056	0.0	0.27673	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
51	30.10	30.00	30.43898	0.0	0.27672	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
52	30.00	29.90	30.43741	0.0	0.27670	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
53	29.90	29.80	30.43583	0.0	0.27669	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
54	29.80	29.70	30.43426	0.0	0.27668	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
55	29.70	29.60	30.43268	0.0	0.27666	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
56	29.60	29.50	30.43111	0.0	0.27665	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
57	29.50	29.40	30.42953	0.0	0.27663	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
58	29.40	29.30	30.42796	0.0	0.27662	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
59	29.30	29.20	30.42638	0.0	0.27660	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
60	29.20	29.10	30.42480	0.0	0.27659	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
61	29.10	29.00	30.42323	0.0	0.27657	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
62	29.00	28.90	30.42165	0.0	0.27656	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
63	28.90	28.80	30.42008	0.0	0.27655	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
64	28.80	28.70	30.41850	0.0	0.27653	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
65	28.70	28.60	30.41693	0.0	0.27652	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
66	28.60	28.50	30.41535	0.0	0.27650	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.277
67	28.50	28.40	30.41378	0.0	0.27649	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
68	28.40	28.30	30.41220	0.0	0.27647	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
69	28.30	28.20	30.41063	0.0	0.27646	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
70	28.20	28.10	30.40905	0.0	0.27645	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
71	28.10	28.00	30.40747	0.0	0.27643	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
72	28.00	27.90	30.40590	0.0	0.27642	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
73	27.90	27.80	30.40432	0.0	0.27640	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
74	27.80	27.70	30.40275	0.0	0.27639	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
75	27.70	27.60	30.40117	0.0	0.27637	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
76	27.60	27.50	30.39960	0.0	0.27636	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
77	27.50	27.40	30.39802	0.0	0.27635	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
78	27.40	27.30	30.39645	0.0	0.27633	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
79	27.30	27.20	30.39487	0.0	0.27632	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
80	27.20	27.10	30.39330	0.0	0.27630	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
81	27.10	27.00	30.39172	0.0	0.27629	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
82	27.00	26.90	30.39014	0.0	0.27627	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
83	26.90	26.80	30.38857	0.0	0.27626	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
84	26.80	26.70	30.38699	0.0	0.27625	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
85	26.70	26.60	30.38542	0.0	0.27623	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
86	26.60	26.50	30.38384	0.0	0.27622	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
87	26.50	26.40	30.38227	0.0	0.27620	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
88	26.40	26.30	30.38069	0.0	0.27619	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
89	26.30	26.20	30.37912	0.0	0.27617	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
90	26.20	26.10	30.37754	0.0	0.27616	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
91	26.10	26.00	30.37597	0.0	0.27615	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
92	26.00	25.90	30.37439	0.0	0.27613	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
93	25.90	25.80	30.37281	0.0	0.27612	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
94	25.80	25.70	30.37124	0.0	0.27610	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
95	25.70	25.60	30.36966	0.0	0.27609	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
96	25.60	25.50	30.36809	0.0	0.27607	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
97	25.50	25.40	30.36651	0.0	0.27606	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276

98	25.40	25.30	30.36494	0.0	0.27604	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
99	25.30	25.20	30.36336	0.0	0.27603	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
100	25.20	25.10	30.36179	0.0	0.27602	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
101	25.10	25.00	30.36021	0.0	0.27600	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
102	25.00	24.90	30.35863	0.0	0.27599	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
103	24.90	24.80	30.35706	0.0	0.27597	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
104	24.80	24.70	30.35548	0.0	0.27596	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
105	24.70	24.60	30.35391	0.0	0.27594	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
106	24.60	24.50	30.35233	0.0	0.27593	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
107	24.50	24.40	30.35076	0.0	0.27592	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
108	24.40	24.30	30.34918	0.0	0.27590	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
109	24.30	24.20	30.34761	0.0	0.27589	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
110	24.20	24.10	30.34603	0.0	0.27587	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
111	24.10	24.00	30.34446	0.0	0.27586	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
112	24.00	23.90	30.34288	0.0	0.27584	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
113	23.90	23.80	30.34130	0.0	0.27583	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
114	23.80	23.70	30.33973	0.0	0.27582	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
115	23.70	23.60	30.33815	0.0	0.27580	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
116	23.60	23.50	30.33658	0.0	0.27579	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
117	23.50	23.40	30.33500	0.0	0.27577	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
118	23.40	23.30	30.33343	0.0	0.27576	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
119	23.30	23.20	30.33185	0.0	0.27574	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
120	23.20	23.10	30.33028	0.0	0.27573	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
121	23.10	23.00	30.32870	0.0	0.27572	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
122	23.00	22.90	30.32713	0.0	0.27570	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
123	22.90	22.80	30.32555	0.0	0.27569	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
124	22.80	22.70	30.32397	0.0	0.27567	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
125	22.70	22.60	30.32240	0.0	0.27566	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
126	22.60	22.50	30.32082	0.0	0.27564	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
127	22.50	22.40	30.31925	0.0	0.27563	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
128	22.40	22.30	30.31767	0.0	0.27562	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
129	22.30	22.20	30.31610	0.0	0.27560	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
130	22.20	22.10	30.31452	0.0	0.27559	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
131	22.10	22.00	30.31295	0.0	0.27557	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
132	22.00	21.90	30.31137	0.0	0.27556	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
133	21.90	21.80	30.30980	0.0	0.27554	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
134	21.80	21.70	30.30822	0.0	0.27553	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
135	21.70	21.60	30.30664	0.0	0.27551	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
136	21.60	21.50	30.30507	0.0	0.27550	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.276
137	21.50	21.40	30.30349	0.0	0.27549	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
138	21.40	21.30	30.30192	0.0	0.27547	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
139	21.30	21.20	30.30034	0.0	0.27546	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
140	21.20	21.10	30.29877	0.0	0.27544	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
141	21.10	21.00	30.29719	0.0	0.27543	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
142	21.00	20.90	30.29562	0.0	0.27541	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
143	20.90	20.80	30.29404	0.0	0.27540	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
144	20.80	20.70	30.29247	0.0	0.27539	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
145	20.70	20.60	30.29089	0.0	0.27537	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
146	20.60	20.50	30.28931	0.0	0.27536	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275
147	20.50	20.40	30.28774	0.0	0.27534	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275

148	20.40	20.30	30.28616	0.0	0.27533	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275			
149	20.30	20.20	30.28459	0.0	0.27531	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275			
150	20.20	20.10	30.28301	0.0	0.27530	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275			
151	20.10	20.00	30.28144	0.0	0.27529	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275			
152	20.00	19.90	30.27986	0.0	0.27527	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275			
153	19.90	19.80	30.27829	0.0	0.27526	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275			
154	19.80	19.70	30.27671	0.0	0.27524	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275			
155	19.70	19.60	30.27514	0.0	0.27523	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275			
156	19.60	19.50	30.27356	0.0	0.27521	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275			
157	19.50	19.40	30.27198	0.0	0.27520	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275			
158	19.40	19.30	30.27041	0.0	0.27519	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275			
159	19.30	19.20	30.26883	0.0	0.27517	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275			
160	19.20	19.10	30.26726	0.0	0.27516	0.00	1.00	110.00	11000.00	11000.00	110.00	0.00	0.000	0.500	0.275			
TOT					0.53			1397000.00	1397000.00									
AVG				0.2761			1.00	110.00		110.00								
CUM					0.70													

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da			
34	31.700	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00	
35	31.600	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00	
36	31.500	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00	
37	31.400	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00	
38	31.300	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.46	0.00	0.00	0.00	0.00	
39	31.200	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00	
40	31.100	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00	
41	31.000	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00	
42	30.900	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00	
43	30.800	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00	
44	30.700	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00	
45	30.600	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.49	0.00	0.00	0.00	0.00	
46	30.500	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.49	0.00	0.00	0.00	0.00	
47	30.400	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	
48	30.300	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	
49	30.200	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.50	0.00	0.00	0.00	0.00	
50	30.100	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00	
51	30.000	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00	
52	29.900	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00	
53	29.800	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00	
54	29.700	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00	
55	29.600	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.52	0.00	0.00	0.00	0.00	
56	29.500	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00	
57	29.400	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00	
58	29.300	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00	
59	29.200	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00	
60	29.100	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00	
61	29.000	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.54	0.00	0.00	0.00	0.00	
62	28.900	7.33	2.57	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00	
63	28.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00	

64	28.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
65	28.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
66	28.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
67	28.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
68	28.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
69	28.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
70	28.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.57	0.00	0.00	0.00	0.00
71	28.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
72	27.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
73	27.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
74	27.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
75	27.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
76	27.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
77	27.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
78	27.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
79	27.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
80	27.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
81	27.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
82	26.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
83	26.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
84	26.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
85	26.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.62	0.00	0.00	0.00	0.00
86	26.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
87	26.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
88	26.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.00
89	26.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
90	26.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
91	26.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
92	25.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
93	25.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
94	25.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
95	25.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
96	25.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
97	25.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.66	0.00	0.00	0.00	0.00
98	25.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
99	25.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
100	25.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.67	0.00	0.00	0.00	0.00
101	25.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
102	24.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
103	24.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
104	24.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
105	24.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
106	24.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
107	24.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
108	24.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
109	24.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.70	0.00	0.00	0.00	0.00
110	24.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
111	24.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
112	23.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
113	23.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00

114	23.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.72	0.00	0.00	0.00	0.00
115	23.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
116	23.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
117	23.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
118	23.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
119	23.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
120	23.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.74	0.00	0.00	0.00	0.00
121	23.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
122	22.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
123	22.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
124	22.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
125	22.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
126	22.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.76	0.00	0.00	0.00	0.00
127	22.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
128	22.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
129	22.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
130	22.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
131	22.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
132	21.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
133	21.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
134	21.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
135	21.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
136	21.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
137	21.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
138	21.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.80	0.00	0.00	0.00	0.00
139	21.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
140	21.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
141	21.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
142	20.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
143	20.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
144	20.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.82	0.00	0.00	0.00	0.00
145	20.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
146	20.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
147	20.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00
148	20.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
149	20.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
150	20.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
151	20.000	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
152	19.900	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
153	19.800	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
154	19.700	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
155	19.600	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
156	19.500	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.86	0.00	0.00	0.00	0.00
157	19.400	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
158	19.300	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
159	19.200	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.87	0.00	0.00	0.00	0.00
160	19.100	7.33	2.56	0.21	0.00	0.00	0.00	0.00	0.00	5.68	5.68	5.68	0.03	0.00	0.37	0.00	0.00	0.00	6.88	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.07	0.12	0.00	0.00	0.00	0.00	0.00	2.70			0.02	0.00	0.15	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS #/100mL	CHL A	MACRO	COLI	NCM
34	31.700	31.80	0.00	0.00	0.00	6.22	16.11	0.00	16.11	0.00	1.59	0.10	0.50	2.20	0.00	75.04	0.00	0.	0.00
35	31.600	31.80	0.00	0.00	0.00	6.22	16.14	0.00	16.14	0.00	1.59	0.10	0.50	2.20	0.00	75.08	0.00	0.	0.00
36	31.500	31.80	0.00	0.00	0.00	6.22	16.17	0.00	16.17	0.00	1.59	0.10	0.50	2.20	0.00	75.12	0.00	0.	0.00
37	31.400	31.80	0.00	0.00	0.00	6.22	16.20	0.00	16.20	0.00	1.60	0.10	0.50	2.20	0.00	75.16	0.00	0.	0.00
38	31.300	31.80	0.00	0.00	0.00	6.22	16.23	0.00	16.23	0.00	1.60	0.10	0.50	2.20	0.00	75.20	0.00	0.	0.00
39	31.200	31.80	0.00	0.00	0.00	6.21	16.26	0.00	16.26	0.00	1.60	0.10	0.50	2.20	0.00	75.24	0.00	0.	0.00
40	31.100	31.80	0.00	0.00	0.00	6.21	16.29	0.00	16.29	0.00	1.60	0.10	0.49	2.20	0.00	75.28	0.00	0.	0.00
41	31.000	31.80	0.00	0.00	0.00	6.21	16.32	0.00	16.32	0.00	1.60	0.10	0.49	2.20	0.00	75.31	0.00	0.	0.00
42	30.900	31.80	0.00	0.00	0.00	6.21	16.35	0.00	16.35	0.00	1.60	0.10	0.49	2.20	0.00	75.35	0.00	0.	0.00
43	30.800	31.80	0.00	0.00	0.00	6.21	16.38	0.00	16.38	0.00	1.61	0.10	0.49	2.20	0.00	75.39	0.00	0.	0.00
44	30.700	31.80	0.00	0.00	0.00	6.21	16.41	0.00	16.41	0.00	1.61	0.10	0.49	2.20	0.00	75.43	0.00	0.	0.00
45	30.600	31.80	0.00	0.00	0.00	6.21	16.44	0.00	16.44	0.00	1.61	0.10	0.48	2.20	0.00	75.47	0.00	0.	0.00
46	30.500	31.80	0.00	0.00	0.00	6.21	16.47	0.00	16.47	0.00	1.61	0.10	0.48	2.20	0.00	75.51	0.00	0.	0.00
47	30.400	31.80	0.00	0.00	0.00	6.21	16.50	0.00	16.50	0.00	1.61	0.10	0.48	2.20	0.00	75.55	0.00	0.	0.00
48	30.300	31.80	0.00	0.00	0.00	6.21	16.52	0.00	16.52	0.00	1.61	0.10	0.48	2.20	0.00	75.59	0.00	0.	0.00
49	30.200	31.80	0.00	0.00	0.00	6.20	16.55	0.00	16.55	0.00	1.62	0.10	0.48	2.20	0.00	75.63	0.00	0.	0.00
50	30.100	31.80	0.00	0.00	0.00	6.20	16.58	0.00	16.58	0.00	1.62	0.10	0.48	2.20	0.00	75.67	0.00	0.	0.00
51	30.000	31.80	0.00	0.00	0.00	6.20	16.61	0.00	16.61	0.00	1.62	0.10	0.47	2.20	0.00	75.71	0.00	0.	0.00
52	29.900	31.80	0.00	0.00	0.00	6.20	16.64	0.00	16.64	0.00	1.62	0.10	0.47	2.20	0.00	75.75	0.00	0.	0.00
53	29.800	31.80	0.00	0.00	0.00	6.20	16.67	0.00	16.67	0.00	1.62	0.10	0.47	2.20	0.00	75.79	0.00	0.	0.00
54	29.700	31.80	0.00	0.00	0.00	6.20	16.70	0.00	16.70	0.00	1.63	0.10	0.47	2.20	0.00	75.83	0.00	0.	0.00
55	29.600	31.80	0.00	0.00	0.00	6.20	16.73	0.00	16.73	0.00	1.63	0.10	0.47	2.20	0.00	75.87	0.00	0.	0.00
56	29.500	31.80	0.00	0.00	0.00	6.20	16.75	0.00	16.75	0.00	1.63	0.10	0.47	2.20	0.00	75.91	0.00	0.	0.00
57	29.400	31.80	0.00	0.00	0.00	6.20	16.78	0.00	16.78	0.00	1.63	0.10	0.46	2.20	0.00	75.94	0.00	0.	0.00
58	29.300	31.80	0.00	0.00	0.00	6.20	16.81	0.00	16.81	0.00	1.63	0.10	0.46	2.20	0.00	75.98	0.00	0.	0.00
59	29.200	31.80	0.00	0.00	0.00	6.19	16.84	0.00	16.84	0.00	1.63	0.10	0.46	2.20	0.00	76.02	0.00	0.	0.00
60	29.100	31.80	0.00	0.00	0.00	6.19	16.87	0.00	16.87	0.00	1.64	0.10	0.46	2.20	0.00	76.06	0.00	0.	0.00
61	29.000	31.80	0.00	0.00	0.00	6.19	16.90	0.00	16.90	0.00	1.64	0.10	0.46	2.19	0.00	76.10	0.00	0.	0.00
62	28.900	31.80	0.00	0.00	0.00	6.19	16.92	0.00	16.92	0.00	1.64	0.10	0.45	2.19	0.00	76.14	0.00	0.	0.00
63	28.800	31.80	0.00	0.00	0.00	6.19	16.95	0.00	16.95	0.00	1.64	0.10	0.45	2.19	0.00	76.18	0.00	0.	0.00
64	28.700	31.80	0.00	0.00	0.00	6.19	16.98	0.00	16.98	0.00	1.64	0.10	0.45	2.19	0.00	76.22	0.00	0.	0.00
65	28.600	31.80	0.00	0.00	0.00	6.19	17.01	0.00	17.01	0.00	1.64	0.10	0.45	2.19	0.00	76.26	0.00	0.	0.00
66	28.500	31.80	0.00	0.00	0.00	6.19	17.04	0.00	17.04	0.00	1.65	0.10	0.45	2.19	0.00	76.30	0.00	0.	0.00
67	28.400	31.80	0.00	0.00	0.00	6.19	17.06	0.00	17.06	0.00	1.65	0.10	0.45	2.19	0.00	76.34	0.00	0.	0.00
68	28.300	31.80	0.00	0.00	0.00	6.19	17.09	0.00	17.09	0.00	1.65	0.10	0.44	2.19	0.00	76.38	0.00	0.	0.00
69	28.200	31.80	0.00	0.00	0.00	6.18	17.12	0.00	17.12	0.00	1.65	0.10	0.44	2.19	0.00	76.42	0.00	0.	0.00
70	28.100	31.80	0.00	0.00	0.00	6.18	17.15	0.00	17.15	0.00	1.65	0.10	0.44	2.19	0.00	76.46	0.00	0.	0.00
71	28.000	31.80	0.00	0.00	0.00	6.18	17.18	0.00	17.18	0.00	1.65	0.10	0.44	2.19	0.00	76.50	0.00	0.	0.00
72	27.900	31.80	0.00	0.00	0.00	6.18	17.20	0.00	17.20	0.00	1.66	0.10	0.44	2.19	0.00	76.54	0.00	0.	0.00
73	27.800	31.80	0.00	0.00	0.00	6.18	17.23	0.00	17.23	0.00	1.66	0.10	0.44	2.19	0.00	76.57	0.00	0.	0.00
74	27.700	31.80	0.00	0.00	0.00	6.18	17.26	0.00	17.26	0.00	1.66	0.10	0.43	2.19	0.00	76.61	0.00	0.	0.00
75	27.600	31.80	0.00	0.00	0.00	6.18	17.29	0.00	17.29	0.00	1.66	0.10	0.43	2.19	0.00	76.65	0.00	0.	0.00
76	27.500	31.80	0.00	0.00	0.00	6.18	17.31	0.00	17.31	0.00	1.66	0.10	0.43	2.19	0.00	76.69	0.00	0.	0.00
77	27.400	31.80	0.00	0.00	0.00	6.18	17.34	0.00	17.34	0.00	1.66	0.10	0.43	2.19	0.00	76.73	0.00	0.	0.00
78	27.300	31.80	0.00	0.00	0.00	6.18	17.37	0.00	17.37	0.00	1.67	0.10	0.43	2.19	0.00	76.77	0.00	0.	0.00
79	27.200	31.80	0.00	0.00	0.00	6.18	17.40	0.00	17.40	0.00	1.67	0.10	0.43	2.19	0.00	76.81	0.00	0.	0.00
80	27.100	31.80	0.00	0.00	0.00	6.17	17.42	0.00	17.42	0.00	1.67	0.10	0.42	2.19	0.00	76.85	0.00	0.	0.00
81	27.000	31.80	0.00	0.00	0.00	6.17	17.45	0.00	17.45	0.00	1.67	0.10	0.42	2.19	0.00	76.89	0.00	0.	0.00

82	26.900	31.80	0.00	0.00	0.00	6.17	17.48	0.00	17.48	0.00	1.67	0.10	0.42	2.19	0.00	76.93	0.00	0.	0.00
83	26.800	31.80	0.00	0.00	0.00	6.17	17.50	0.00	17.50	0.00	1.67	0.10	0.42	2.19	0.00	76.97	0.00	0.	0.00
84	26.700	31.80	0.00	0.00	0.00	6.17	17.53	0.00	17.53	0.00	1.68	0.10	0.42	2.19	0.00	77.01	0.00	0.	0.00
85	26.600	31.80	0.00	0.00	0.00	6.17	17.56	0.00	17.56	0.00	1.68	0.10	0.41	2.19	0.00	77.05	0.00	0.	0.00
86	26.500	31.80	0.00	0.00	0.00	6.17	17.58	0.00	17.58	0.00	1.68	0.10	0.41	2.19	0.00	77.09	0.00	0.	0.00
87	26.400	31.80	0.00	0.00	0.00	6.17	17.61	0.00	17.61	0.00	1.68	0.10	0.41	2.19	0.00	77.13	0.00	0.	0.00
88	26.300	31.80	0.00	0.00	0.00	6.17	17.64	0.00	17.64	0.00	1.68	0.10	0.41	2.19	0.00	77.17	0.00	0.	0.00
89	26.200	31.80	0.00	0.00	0.00	6.17	17.66	0.00	17.66	0.00	1.68	0.10	0.41	2.19	0.00	77.20	0.00	0.	0.00
90	26.100	31.80	0.00	0.00	0.00	6.16	17.69	0.00	17.69	0.00	1.69	0.10	0.41	2.19	0.00	77.24	0.00	0.	0.00
91	26.000	31.80	0.00	0.00	0.00	6.16	17.72	0.00	17.72	0.00	1.69	0.10	0.40	2.19	0.00	77.28	0.00	0.	0.00
92	25.900	31.80	0.00	0.00	0.00	6.16	17.74	0.00	17.74	0.00	1.69	0.10	0.40	2.19	0.00	77.32	0.00	0.	0.00
93	25.800	31.80	0.00	0.00	0.00	6.16	17.77	0.00	17.77	0.00	1.69	0.10	0.40	2.19	0.00	77.36	0.00	0.	0.00
94	25.700	31.80	0.00	0.00	0.00	6.16	17.80	0.00	17.80	0.00	1.69	0.10	0.40	2.19	0.00	77.40	0.00	0.	0.00
95	25.600	31.80	0.00	0.00	0.00	6.16	17.82	0.00	17.82	0.00	1.69	0.10	0.40	2.19	0.00	77.44	0.00	0.	0.00
96	25.500	31.80	0.00	0.00	0.00	6.16	17.85	0.00	17.85	0.00	1.70	0.10	0.40	2.19	0.00	77.48	0.00	0.	0.00
97	25.400	31.80	0.00	0.00	0.00	6.16	17.88	0.00	17.88	0.00	1.70	0.10	0.39	2.19	0.00	77.52	0.00	0.	0.00
98	25.300	31.80	0.00	0.00	0.00	6.16	17.90	0.00	17.90	0.00	1.70	0.10	0.39	2.19	0.00	77.56	0.00	0.	0.00
99	25.200	31.80	0.00	0.00	0.00	6.16	17.93	0.00	17.93	0.00	1.70	0.10	0.39	2.19	0.00	77.60	0.00	0.	0.00
100	25.100	31.80	0.00	0.00	0.00	6.16	17.95	0.00	17.95	0.00	1.70	0.10	0.39	2.19	0.00	77.64	0.00	0.	0.00
101	25.000	31.80	0.00	0.00	0.00	6.15	17.98	0.00	17.98	0.00	1.70	0.10	0.39	2.19	0.00	77.68	0.00	0.	0.00
102	24.900	31.80	0.00	0.00	0.00	6.15	18.01	0.00	18.01	0.00	1.71	0.10	0.39	2.19	0.00	77.72	0.00	0.	0.00
103	24.800	31.80	0.00	0.00	0.00	6.15	18.03	0.00	18.03	0.00	1.71	0.10	0.38	2.19	0.00	77.76	0.00	0.	0.00
104	24.700	31.80	0.00	0.00	0.00	6.15	18.06	0.00	18.06	0.00	1.71	0.10	0.38	2.19	0.00	77.80	0.00	0.	0.00
105	24.600	31.80	0.00	0.00	0.00	6.15	18.08	0.00	18.08	0.00	1.71	0.10	0.38	2.19	0.00	77.83	0.00	0.	0.00
106	24.500	31.80	0.00	0.00	0.00	6.15	18.11	0.00	18.11	0.00	1.71	0.10	0.38	2.19	0.00	77.87	0.00	0.	0.00
107	24.400	31.80	0.00	0.00	0.00	6.15	18.13	0.00	18.13	0.00	1.71	0.10	0.38	2.19	0.00	77.91	0.00	0.	0.00
108	24.300	31.80	0.00	0.00	0.00	6.15	18.16	0.00	18.16	0.00	1.72	0.10	0.38	2.19	0.00	77.95	0.00	0.	0.00
109	24.200	31.80	0.00	0.00	0.00	6.15	18.18	0.00	18.18	0.00	1.72	0.10	0.37	2.19	0.00	77.99	0.00	0.	0.00
110	24.100	31.80	0.00	0.00	0.00	6.15	18.21	0.00	18.21	0.00	1.72	0.10	0.37	2.19	0.00	78.03	0.00	0.	0.00
111	24.000	31.80	0.00	0.00	0.00	6.15	18.24	0.00	18.24	0.00	1.72	0.10	0.37	2.19	0.00	78.07	0.00	0.	0.00
112	23.900	31.80	0.00	0.00	0.00	6.14	18.26	0.00	18.26	0.00	1.72	0.10	0.37	2.19	0.00	78.11	0.00	0.	0.00
113	23.800	31.80	0.00	0.00	0.00	6.14	18.29	0.00	18.29	0.00	1.72	0.10	0.37	2.19	0.00	78.15	0.00	0.	0.00
114	23.700	31.80	0.00	0.00	0.00	6.14	18.31	0.00	18.31	0.00	1.73	0.10	0.37	2.19	0.00	78.19	0.00	0.	0.00
115	23.600	31.80	0.00	0.00	0.00	6.14	18.34	0.00	18.34	0.00	1.73	0.10	0.36	2.19	0.00	78.23	0.00	0.	0.00
116	23.500	31.80	0.00	0.00	0.00	6.14	18.36	0.00	18.36	0.00	1.73	0.10	0.36	2.19	0.00	78.27	0.00	0.	0.00
117	23.400	31.80	0.00	0.00	0.00	6.14	18.39	0.00	18.39	0.00	1.73	0.10	0.36	2.19	0.00	78.31	0.00	0.	0.00
118	23.300	31.80	0.00	0.00	0.00	6.14	18.41	0.00	18.41	0.00	1.73	0.10	0.36	2.19	0.00	78.35	0.00	0.	0.00
119	23.200	31.80	0.00	0.00	0.00	6.14	18.44	0.00	18.44	0.00	1.73	0.10	0.36	2.19	0.00	78.39	0.00	0.	0.00
120	23.100	31.80	0.00	0.00	0.00	6.14	18.46	0.00	18.46	0.00	1.73	0.10	0.36	2.19	0.00	78.43	0.00	0.	0.00
121	23.000	31.80	0.00	0.00	0.00	6.14	18.49	0.00	18.49	0.00	1.74	0.10	0.35	2.19	0.00	78.46	0.00	0.	0.00
122	22.900	31.80	0.00	0.00	0.00	6.14	18.51	0.00	18.51	0.00	1.74	0.10	0.35	2.19	0.00	78.50	0.00	0.	0.00
123	22.800	31.80	0.00	0.00	0.00	6.14	18.54	0.00	18.54	0.00	1.74	0.10	0.35	2.19	0.00	78.54	0.00	0.	0.00
124	22.700	31.80	0.00	0.00	0.00	6.13	18.56	0.00	18.56	0.00	1.74	0.10	0.35	2.19	0.00	78.58	0.00	0.	0.00
125	22.600	31.80	0.00	0.00	0.00	6.13	18.59	0.00	18.59	0.00	1.74	0.10	0.35	2.19	0.00	78.62	0.00	0.	0.00
126	22.500	31.80	0.00	0.00	0.00	6.13	18.61	0.00	18.61	0.00	1.74	0.10	0.35	2.19	0.00	78.66	0.00	0.	0.00
127	22.400	31.80	0.00	0.00	0.00	6.13	18.64	0.00	18.64	0.00	1.75	0.10	0.34	2.19	0.00	78.70	0.00	0.	0.00
128	22.300	31.80	0.00	0.00	0.00	6.13	18.66	0.00	18.66	0.00	1.75	0.10	0.34	2.19	0.00	78.74	0.00	0.	0.00
129	22.200	31.80	0.00	0.00	0.00	6.13	18.68	0.00	18.68	0.00	1.75	0.10	0.34	2.19	0.00	78.78	0.00	0.	0.00
130	22.100	31.80	0.00	0.00	0.00	6.13	18.71	0.00	18.71	0.00	1.75	0.10	0.34	2.19	0.00	78.82	0.00	0.	0.00
131	22.000	31.80	0.00	0.00	0.00	6.13	18.73	0.00	18.73	0.00	1.75	0.10	0.34	2.19	0.00	78.86	0.00	0.	0.00

132	21.900	31.80	0.00	0.00	0.00	6.13	18.76	0.00	18.76	0.00	1.75	0.10	0.34	2.19	0.00	78.90	0.00	0.	0.00
133	21.800	31.80	0.00	0.00	0.00	6.13	18.78	0.00	18.78	0.00	1.76	0.10	0.33	2.19	0.00	78.94	0.00	0.	0.00
134	21.700	31.80	0.00	0.00	0.00	6.13	18.81	0.00	18.81	0.00	1.76	0.10	0.33	2.19	0.00	78.98	0.00	0.	0.00
135	21.600	31.80	0.00	0.00	0.00	6.13	18.83	0.00	18.83	0.00	1.76	0.10	0.33	2.19	0.00	79.02	0.00	0.	0.00
136	21.500	31.80	0.00	0.00	0.00	6.12	18.85	0.00	18.85	0.00	1.76	0.10	0.33	2.19	0.00	79.06	0.00	0.	0.00
137	21.400	31.80	0.00	0.00	0.00	6.12	18.88	0.00	18.88	0.00	1.76	0.10	0.33	2.19	0.00	79.09	0.00	0.	0.00
138	21.300	31.80	0.00	0.00	0.00	6.12	18.90	0.00	18.90	0.00	1.76	0.10	0.33	2.19	0.00	79.13	0.00	0.	0.00
139	21.200	31.80	0.00	0.00	0.00	6.12	18.93	0.00	18.93	0.00	1.76	0.10	0.32	2.19	0.00	79.17	0.00	0.	0.00
140	21.100	31.80	0.00	0.00	0.00	6.12	18.95	0.00	18.95	0.00	1.77	0.10	0.32	2.19	0.00	79.21	0.00	0.	0.00
141	21.000	31.80	0.00	0.00	0.00	6.12	18.97	0.00	18.97	0.00	1.77	0.10	0.32	2.19	0.00	79.25	0.00	0.	0.00
142	20.900	31.80	0.00	0.00	0.00	6.12	19.00	0.00	19.00	0.00	1.77	0.10	0.32	2.19	0.00	79.29	0.00	0.	0.00
143	20.800	31.80	0.00	0.00	0.00	6.12	19.02	0.00	19.02	0.00	1.77	0.10	0.32	2.19	0.00	79.33	0.00	0.	0.00
144	20.700	31.80	0.00	0.00	0.00	6.12	19.05	0.00	19.05	0.00	1.77	0.10	0.32	2.19	0.00	79.37	0.00	0.	0.00
145	20.600	31.80	0.00	0.00	0.00	6.12	19.07	0.00	19.07	0.00	1.77	0.10	0.31	2.19	0.00	79.41	0.00	0.	0.00
146	20.500	31.80	0.00	0.00	0.00	6.12	19.09	0.00	19.09	0.00	1.78	0.10	0.31	2.19	0.00	79.45	0.00	0.	0.00
147	20.400	31.80	0.00	0.00	0.00	6.12	19.12	0.00	19.12	0.00	1.78	0.10	0.31	2.19	0.00	79.49	0.00	0.	0.00
148	20.300	31.80	0.00	0.00	0.00	6.11	19.14	0.00	19.14	0.00	1.78	0.10	0.31	2.19	0.00	79.53	0.00	0.	0.00
149	20.200	31.80	0.00	0.00	0.00	6.11	19.16	0.00	19.16	0.00	1.78	0.10	0.31	2.19	0.00	79.57	0.00	0.	0.00
150	20.100	31.80	0.00	0.00	0.00	6.11	19.19	0.00	19.19	0.00	1.78	0.10	0.31	2.19	0.00	79.61	0.00	0.	0.00
151	20.000	31.80	0.00	0.00	0.00	6.11	19.21	0.00	19.21	0.00	1.78	0.10	0.30	2.19	0.00	79.65	0.00	0.	0.00
152	19.900	31.80	0.00	0.00	0.00	6.11	19.23	0.00	19.23	0.00	1.78	0.10	0.30	2.19	0.00	79.69	0.00	0.	0.00
153	19.800	31.80	0.00	0.00	0.00	6.11	19.26	0.00	19.26	0.00	1.79	0.10	0.30	2.19	0.00	79.72	0.00	0.	0.00
154	19.700	31.80	0.00	0.00	0.00	6.11	19.28	0.00	19.28	0.00	1.79	0.10	0.30	2.19	0.00	79.76	0.00	0.	0.00
155	19.600	31.80	0.00	0.00	0.00	6.11	19.30	0.00	19.30	0.00	1.79	0.10	0.30	2.19	0.00	79.80	0.00	0.	0.00
156	19.500	31.80	0.00	0.00	0.00	6.11	19.33	0.00	19.33	0.00	1.79	0.10	0.30	2.19	0.00	79.84	0.00	0.	0.00
157	19.400	31.80	0.00	0.00	0.00	6.11	19.35	0.00	19.35	0.00	1.79	0.10	0.29	2.19	0.00	79.88	0.00	0.	0.00
158	19.300	31.80	0.00	0.00	0.00	6.11	19.37	0.00	19.37	0.00	1.79	0.10	0.29	2.19	0.00	79.92	0.00	0.	0.00
159	19.200	31.80	0.00	0.00	0.00	6.11	19.40	0.00	19.40	0.00	1.80	0.10	0.29	2.19	0.00	79.96	0.00	0.	0.00
160	19.100	31.80	0.00	0.00	0.00	6.11	19.42	0.00	19.42	0.00	1.80	0.10	0.29	2.19	0.00	80.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 3 120401-G to Turtle Bayou Calibration Simulation for Lake Penchant and Bayou Penchant mode

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS	CHL A #/100mL	COLI	NCM
161	UPR RCH	30.26726	31.80	0.00	0.00	0.00	6.11	19.42	0.00	19.42	0.00	1.80	0.10	0.29	0.00	80.00	0.00	0.00
EACH	INCR	0.00962	31.13	0.00	0.00	0.00	5.00	10.00	0.00		1.30	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.01346																
161	WSTLD	-7.30570	31.80	0.00	0.00	0.00	6.13	19.40	0.00	19.40	0.00	1.80	0.10	0.29	0.00	79.62	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
161	19.10	19.00	22.95771	0.0	0.14428	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
162	19.00	18.90	22.95386	0.0	0.14426	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
163	18.90	18.80	22.95002	0.0	0.14423	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
164	18.80	18.70	22.94617	0.0	0.14421	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
165	18.70	18.60	22.94232	0.0	0.14418	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
166	18.60	18.50	22.93847	0.0	0.14416	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
167	18.50	18.40	22.93463	0.0	0.14413	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
168	18.40	18.30	22.93078	0.0	0.14411	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144

169	18.30	18.20	22.92693	0.0	0.14409	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
170	18.20	18.10	22.92309	0.0	0.14406	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
171	18.10	18.00	22.91924	0.0	0.14404	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
172	18.00	17.90	22.91539	0.0	0.14401	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
173	17.90	17.80	22.91154	0.0	0.14399	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
174	17.80	17.70	22.90770	0.0	0.14396	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
175	17.70	17.60	22.90385	0.0	0.14394	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
176	17.60	17.50	22.90000	0.0	0.14392	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
177	17.50	17.40	22.89616	0.0	0.14389	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
178	17.40	17.30	22.89231	0.0	0.14387	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
179	17.30	17.20	22.88846	0.0	0.14384	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
180	17.20	17.10	22.88461	0.0	0.14382	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
181	17.10	17.00	22.88077	0.0	0.14380	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
182	17.00	16.90	22.87692	0.0	0.14377	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
183	16.90	16.80	22.87307	0.0	0.14375	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
184	16.80	16.70	22.86923	0.0	0.14372	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
185	16.70	16.60	22.86538	0.0	0.14370	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
186	16.60	16.50	22.86153	0.0	0.14367	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
187	16.50	16.40	22.85769	0.0	0.14365	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
188	16.40	16.30	22.85384	0.0	0.14363	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
189	16.30	16.20	22.84999	0.0	0.14360	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
190	16.20	16.10	22.84614	0.0	0.14358	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
191	16.10	16.00	22.84230	0.0	0.14355	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
192	16.00	15.90	22.83845	0.0	0.14353	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
193	15.90	15.80	22.83460	0.0	0.14351	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.144
194	15.80	15.70	22.83076	0.0	0.14348	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
195	15.70	15.60	22.82691	0.0	0.14346	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
196	15.60	15.50	22.82306	0.0	0.14343	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
197	15.50	15.40	22.81921	0.0	0.14341	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
198	15.40	15.30	22.81537	0.0	0.14338	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
199	15.30	15.20	22.81152	0.0	0.14336	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
200	15.20	15.10	22.80767	0.0	0.14334	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
201	15.10	15.00	22.80383	0.0	0.14331	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
202	15.00	14.90	22.79998	0.0	0.14329	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
203	14.90	14.80	22.79613	0.0	0.14326	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
204	14.80	14.70	22.79228	0.0	0.14324	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
205	14.70	14.60	22.78844	0.0	0.14322	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
206	14.60	14.50	22.78459	0.0	0.14319	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
207	14.50	14.40	22.78074	0.0	0.14317	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
208	14.40	14.30	22.77690	0.0	0.14314	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
209	14.30	14.20	22.77305	0.0	0.14312	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
210	14.20	14.10	22.76920	0.0	0.14309	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
211	14.10	14.00	22.76535	0.0	0.14307	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
212	14.00	13.90	22.76151	0.0	0.14305	0.01	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.400	0.143
TOT					0.42			827424.00	468000.00						
AVG				0.1437			1.77	90.00			159.12				
CUM					1.12										

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

ELEM	ENDING	SAT	REAER	BOD#1	BOD#1	ABOD#1	BOD#2	BOD#2	ABOD#2	BKGD	FULL	CORR	ORGN	ORGN	NH3	NH3	DENIT	PO4	ALG	MAC	COLI	NCM	NCM

NO.	DIST	D.O.	RATE	DECAY	SETT	DECAY	DECAY	SETT	DECAY	SOD	SOD	SOD	DECAY	SETT	DECAY	SRCE	RATE	SRCE	PROD	PROD	DECAY	DECAY	SETT
	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da	
161	19.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
162	18.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
163	18.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
164	18.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.75	0.00	0.00	0.00	0.00
165	18.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.71	0.00	0.00	0.00	0.00
166	18.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
167	18.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.65	0.00	0.00	0.00	0.00
168	18.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.61	0.00	0.00	0.00	0.00
169	18.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.58	0.00	0.00	0.00	0.00
170	18.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.55	0.00	0.00	0.00	0.00
171	18.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
172	17.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.48	0.00	0.00	0.00	0.00
173	17.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.00
174	17.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
175	17.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00
176	17.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.35	0.00	0.00	0.00	0.00
177	17.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.32	0.00	0.00	0.00	0.00
178	17.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00
179	17.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.00
180	17.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.22	0.00	0.00	0.00	0.00
181	17.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.18	0.00	0.00	0.00	0.00
182	16.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.15	0.00	0.00	0.00	0.00
183	16.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.00
184	16.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00
185	16.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
186	16.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	6.02	0.00	0.00	0.00	0.00
187	16.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.98	0.00	0.00	0.00	0.00
188	16.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.95	0.00	0.00	0.00	0.00
189	16.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00
190	16.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.89	0.00	0.00	0.00	0.00
191	16.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.85	0.00	0.00	0.00	0.00
192	15.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.82	0.00	0.00	0.00	0.00
193	15.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.79	0.00	0.00	0.00	0.00
194	15.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00
195	15.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.72	0.00	0.00	0.00	0.00
196	15.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.69	0.00	0.00	0.00	0.00
197	15.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.65	0.00	0.00	0.00	0.00
198	15.300	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.62	0.00	0.00	0.00	0.00
199	15.200	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.59	0.00	0.00	0.00	0.00
200	15.100	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00
201	15.000	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.52	0.00	0.00	0.00	0.00
202	14.900	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.00
203	14.800	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.46	0.00	0.00	0.00	0.00
204	14.700	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.42	0.00	0.00	0.00	0.00
205	14.600	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.39	0.00	0.00	0.00	0.00
206	14.500	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.36	0.00	0.00	0.00	0.00
207	14.400	7.33	0.79	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.32	0.00	0.00	0.00	0.00
208	14.300	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.29	0.00	0.00	0.00	0.00

209	14.200	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.26	0.00	0.00	0.00	0.00
210	14.100	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.22	0.00	0.00	0.00	0.00
211	14.000	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.00
212	13.900	7.33	0.78	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	0.00	0.00	0.00			0.00	0.00	0.00

* $g/m^2/d$ ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m^3	PHOS	CHL A	MACRO	COLI #/100mL	NCM
161	19.000	31.80	0.00	0.00	0.00	6.13	19.40	0.00	19.40	0.00	1.80	0.10	0.29	2.19	0.00	79.62	0.00	0.	0.00
162	18.900	31.80	0.00	0.00	0.00	6.16	19.39	0.00	19.39	0.00	1.80	0.10	0.29	2.18	0.00	79.23	0.00	0.	0.00
163	18.800	31.80	0.00	0.00	0.00	6.20	19.37	0.00	19.37	0.00	1.80	0.10	0.28	2.18	0.00	78.85	0.00	0.	0.00
164	18.700	31.80	0.00	0.00	0.00	6.23	19.35	0.00	19.35	0.00	1.79	0.10	0.28	2.18	0.00	78.46	0.00	0.	0.00
165	18.600	31.80	0.00	0.00	0.00	6.26	19.34	0.00	19.34	0.00	1.79	0.10	0.28	2.18	0.00	78.08	0.00	0.	0.00
166	18.500	31.80	0.00	0.00	0.00	6.29	19.32	0.00	19.32	0.00	1.79	0.10	0.28	2.17	0.00	77.69	0.00	0.	0.00
167	18.400	31.80	0.00	0.00	0.00	6.32	19.30	0.00	19.30	0.00	1.79	0.10	0.27	2.17	0.00	77.31	0.00	0.	0.00
168	18.300	31.80	0.00	0.00	0.00	6.35	19.28	0.00	19.28	0.00	1.79	0.10	0.27	2.17	0.00	76.92	0.00	0.	0.00
169	18.200	31.80	0.00	0.00	0.00	6.38	19.27	0.00	19.27	0.00	1.79	0.10	0.27	2.16	0.00	76.54	0.00	0.	0.00
170	18.100	31.80	0.00	0.00	0.00	6.41	19.25	0.00	19.25	0.00	1.79	0.10	0.27	2.16	0.00	76.15	0.00	0.	0.00
171	18.000	31.80	0.00	0.00	0.00	6.44	19.23	0.00	19.23	0.00	1.79	0.10	0.26	2.16	0.00	75.77	0.00	0.	0.00
172	17.900	31.80	0.00	0.00	0.00	6.46	19.21	0.00	19.21	0.00	1.79	0.10	0.26	2.15	0.00	75.38	0.00	0.	0.00
173	17.800	31.80	0.00	0.00	0.00	6.49	19.20	0.00	19.20	0.00	1.79	0.10	0.26	2.15	0.00	75.00	0.00	0.	0.00
174	17.700	31.80	0.00	0.00	0.00	6.52	19.18	0.00	19.18	0.00	1.79	0.10	0.26	2.15	0.00	74.62	0.00	0.	0.00
175	17.600	31.80	0.00	0.00	0.00	6.55	19.16	0.00	19.16	0.00	1.79	0.10	0.25	2.15	0.00	74.23	0.00	0.	0.00
176	17.500	31.80	0.00	0.00	0.00	6.57	19.15	0.00	19.15	0.00	1.79	0.10	0.25	2.14	0.00	73.85	0.00	0.	0.00
177	17.400	31.80	0.00	0.00	0.00	6.60	19.13	0.00	19.13	0.00	1.79	0.10	0.25	2.14	0.00	73.46	0.00	0.	0.00
178	17.300	31.80	0.00	0.00	0.00	6.62	19.11	0.00	19.11	0.00	1.79	0.10	0.25	2.14	0.00	73.08	0.00	0.	0.00
179	17.200	31.80	0.00	0.00	0.00	6.65	19.10	0.00	19.10	0.00	1.79	0.10	0.24	2.14	0.00	72.69	0.00	0.	0.00
180	17.100	31.80	0.00	0.00	0.00	6.67	19.08	0.00	19.08	0.00	1.79	0.10	0.24	2.13	0.00	72.31	0.00	0.	0.00
181	17.000	31.80	0.00	0.00	0.00	6.70	19.06	0.00	19.06	0.00	1.78	0.10	0.24	2.13	0.00	71.92	0.00	0.	0.00
182	16.900	31.80	0.00	0.00	0.00	6.72	19.04	0.00	19.04	0.00	1.78	0.10	0.24	2.13	0.00	71.54	0.00	0.	0.00
183	16.800	31.80	0.00	0.00	0.00	6.74	19.03	0.00	19.03	0.00	1.78	0.10	0.24	2.12	0.00	71.15	0.00	0.	0.00
184	16.700	31.80	0.00	0.00	0.00	6.77	19.01	0.00	19.01	0.00	1.78	0.10	0.23	2.12	0.00	70.77	0.00	0.	0.00
185	16.600	31.80	0.00	0.00	0.00	6.79	18.99	0.00	18.99	0.00	1.78	0.10	0.23	2.12	0.00	70.38	0.00	0.	0.00
186	16.500	31.80	0.00	0.00	0.00	6.81	18.98	0.00	18.98	0.00	1.78	0.10	0.23	2.12	0.00	70.00	0.00	0.	0.00
187	16.400	31.80	0.00	0.00	0.00	6.83	18.96	0.00	18.96	0.00	1.78	0.10	0.23	2.11	0.00	69.62	0.00	0.	0.00
188	16.300	31.80	0.00	0.00	0.00	6.85	18.94	0.00	18.94	0.00	1.78	0.10	0.22	2.11	0.00	69.23	0.00	0.	0.00
189	16.200	31.80	0.00	0.00	0.00	6.87	18.93	0.00	18.93	0.00	1.78	0.10	0.22	2.11	0.00	68.85	0.00	0.	0.00
190	16.100	31.80	0.00	0.00	0.00	6.90	18.91	0.00	18.91	0.00	1.78	0.10	0.22	2.11	0.00	68.46	0.00	0.	0.00
191	16.000	31.80	0.00	0.00	0.00	6.92	18.89	0.00	18.89	0.00	1.78	0.10	0.22	2.10	0.00	68.08	0.00	0.	0.00
192	15.900	31.80	0.00	0.00	0.00	6.94	18.88	0.00	18.88	0.00	1.78	0.11	0.22	2.10	0.00	67.69	0.00	0.	0.00
193	15.800	31.80	0.00	0.00	0.00	6.95	18.86	0.00	18.86	0.00	1.78	0.11	0.21	2.10	0.00	67.31	0.00	0.	0.00
194	15.700	31.80	0.00	0.00	0.00	6.97	18.84	0.00	18.84	0.00	1.78	0.11	0.21	2.09	0.00	66.92	0.00	0.	0.00
195	15.600	31.80	0.00	0.00	0.00	6.99	18.82	0.00	18.82	0.00	1.78	0.11	0.21	2.09	0.00	66.54	0.00	0.	0.00
196	15.500	31.80	0.00	0.00	0.00	7.01	18.81	0.00	18.81	0.00	1.78	0.11	0.21	2.09	0.00	66.15	0.00	0.	0.00
197	15.400	31.80	0.00	0.00	0.00	7.03	18.79	0.00	18.79	0.00	1.78	0.11	0.21	2.09	0.00	65.77	0.00	0.	0.00
198	15.300	31.80	0.00	0.00	0.00	7.05	18.77	0.00	18.77	0.00	1.78	0.11	0.20	2.08	0.00	65.38	0.00	0.	0.00
199	15.200	31.80	0.00	0.00	0.00	7.06	18.76	0.00	18.76	0.00	1.77	0.11	0.20	2.08	0.00	65.00	0.00	0.	0.00
200	15.100	31.80	0.00	0.00	0.00	7.08	18.74	0.00	18.74	0.00	1.77	0.11	0.20	2.08	0.00	64.62	0.00	0.	0.00
201	15.000	31.80	0.00	0.00	0.00	7.10	18.72	0.00	18.72	0.00	1.77	0.11	0.20	2.08	0.00	64.23	0.00	0.	0.00

202	14.900	31.80	0.00	0.00	0.00	7.11	18.71	0.00	18.71	0.00	1.77	0.11	0.20	2.07	0.00	63.85	0.00	0.	0.00
203	14.800	31.80	0.00	0.00	0.00	7.13	18.69	0.00	18.69	0.00	1.77	0.11	0.19	2.07	0.00	63.46	0.00	0.	0.00
204	14.700	31.80	0.00	0.00	0.00	7.14	18.67	0.00	18.67	0.00	1.77	0.11	0.19	2.07	0.00	63.08	0.00	0.	0.00
205	14.600	31.80	0.00	0.00	0.00	7.16	18.66	0.00	18.66	0.00	1.77	0.11	0.19	2.07	0.00	62.69	0.00	0.	0.00
206	14.500	31.80	0.00	0.00	0.00	7.17	18.64	0.00	18.64	0.00	1.77	0.11	0.19	2.06	0.00	62.31	0.00	0.	0.00
207	14.400	31.80	0.00	0.00	0.00	7.19	18.62	0.00	18.62	0.00	1.77	0.11	0.19	2.06	0.00	61.92	0.00	0.	0.00
208	14.300	31.80	0.00	0.00	0.00	7.20	18.61	0.00	18.61	0.00	1.77	0.11	0.18	2.06	0.00	61.54	0.00	0.	0.00
209	14.200	31.80	0.00	0.00	0.00	7.21	18.59	0.00	18.59	0.00	1.77	0.11	0.18	2.06	0.00	61.15	0.00	0.	0.00
210	14.100	31.80	0.00	0.00	0.00	7.23	18.58	0.00	18.58	0.00	1.77	0.11	0.18	2.06	0.00	60.77	0.00	0.	0.00
211	14.000	31.80	0.00	0.00	0.00	7.24	18.56	0.00	18.56	0.00	1.77	0.11	0.18	2.05	0.00	60.38	0.00	0.	0.00
212	13.900	31.80	0.00	0.00	0.00	7.24	18.50	0.00	18.50	0.00	1.77	0.11	0.18	2.05	0.00	60.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 4 Turtle Bayou to Carenero Bayou Calibration Simulation for Lake Penchant and Bayou Penchant mode

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS	CHL A #/100mL	COLI	NCM
213	UPR RCH	22.76151	31.80	0.00	0.00	0.00	7.24	18.50	0.00	18.50	0.00	1.77	0.11	0.18	0.00	60.00	0.00	0.00
EACH	INCR	0.01250	31.13	0.00	0.00	0.00	5.00	10.00	0.00		1.30	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.01750																
213	WSTLD	2.26536	31.80	0.00	0.00	0.00	3.70	3.40	0.00	3.40	0.00	2.00	0.05	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	PRISM m³	VELO m/s	TIDAL VELO m²/s	TIDAL m/s	DISPRSN	MEAN
213	13.90	13.80	25.02187	9.0	0.09131	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
214	13.80	13.70	25.01687	9.0	0.09129	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
215	13.70	13.60	25.01187	9.0	0.09127	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
216	13.60	13.50	25.00687	9.0	0.09125	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
217	13.50	13.40	25.00187	9.0	0.09123	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
218	13.40	13.30	24.99687	9.0	0.09122	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
219	13.30	13.20	24.99187	9.0	0.09120	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
220	13.20	13.10	24.98687	9.0	0.09118	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
221	13.10	13.00	24.98187	9.0	0.09116	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
222	13.00	12.90	24.97688	9.0	0.09114	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
223	12.90	12.80	24.97188	9.0	0.09112	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
224	12.80	12.70	24.96688	9.0	0.09111	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
225	12.70	12.60	24.96188	9.0	0.09109	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
226	12.60	12.50	24.95688	9.0	0.09107	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
227	12.50	12.40	24.95188	9.0	0.09105	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
228	12.40	12.30	24.94688	9.0	0.09103	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
229	12.30	12.20	24.94188	9.0	0.09102	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
230	12.20	12.10	24.93688	9.0	0.09100	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
231	12.10	12.00	24.93188	9.0	0.09098	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
232	12.00	11.90	24.92688	9.0	0.09096	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
233	11.90	11.80	24.92188	9.0	0.09094	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
234	11.80	11.70	24.91689	9.0	0.09092	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
235	11.70	11.60	24.91189	8.9	0.09091	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
236	11.60	11.50	24.90689	8.9	0.09089	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
237	11.50	11.40	24.90189	8.9	0.09087	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		
238	11.40	11.30	24.89689	8.9	0.09085	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091		

239	11.30	11.20	24.89189	8.9	0.09083	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
240	11.20	11.10	24.88689	8.9	0.09081	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
241	11.10	11.00	24.88189	8.9	0.09080	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
242	11.00	10.90	24.87689	8.9	0.09078	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
243	10.90	10.80	24.87189	8.9	0.09076	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
244	10.80	10.70	24.86689	8.9	0.09074	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
245	10.70	10.60	24.86189	8.9	0.09072	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
246	10.60	10.50	24.85690	8.9	0.09071	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
247	10.50	10.40	24.85190	8.9	0.09069	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
248	10.40	10.30	24.84690	8.9	0.09067	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
249	10.30	10.20	24.84190	8.9	0.09065	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
250	10.20	10.10	24.83690	8.9	0.09063	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
251	10.10	10.00	24.83190	8.9	0.09061	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
252	10.00	9.90	24.82690	8.9	0.09060	0.01	1.77	155.00	27404.00	15500.00	274.04	0.00	0.000	0.300	0.091
TOT					0.51			1096160.00	620000.00						
AVG				0.0910			1.77	155.00			274.04				
CUM					1.63										

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da		
213	13.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00	
214	13.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00	
215	13.600	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00	
216	13.500	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00	
217	13.400	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00	
218	13.300	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00	
219	13.200	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.86	0.00	0.00	0.00	0.00	
220	13.100	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	4.81	0.00	0.00	0.00	0.00	
221	13.000	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.77	0.00	0.00	0.00	0.00	
222	12.900	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.73	0.00	0.00	0.00	0.00	
223	12.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.69	0.00	0.00	0.00	0.00	
224	12.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.64	0.00	0.00	0.00	0.00	
225	12.600	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00	
226	12.500	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.56	0.00	0.00	0.00	0.00	
227	12.400	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.51	0.00	0.00	0.00	0.00	
228	12.300	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.47	0.00	0.00	0.00	0.00	
229	12.200	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.43	0.00	0.00	0.00	0.00	
230	12.100	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.38	0.00	0.00	0.00	0.00	
231	12.000	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00	
232	11.900	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00	
233	11.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.26	0.00	0.00	0.00	0.00	
234	11.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.00	
235	11.600	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.17	0.00	0.00	0.00	0.00	
236	11.500	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.13	0.00	0.00	0.00	0.00	
237	11.400	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.08	0.00	0.00	0.00	0.00	
238	11.300	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.04	0.00	0.00	0.00	0.00	
239	11.200	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	
240	11.100	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.95	0.00	0.00	0.00	0.00	
241	11.000	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.91	0.00	0.00	0.00	0.00	

242	10.900	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.87	0.00	0.00	0.00	0.00
243	10.800	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00
244	10.700	7.33	0.63	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00
245	10.600	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.74	0.00	0.00	0.00	0.00
246	10.500	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00
247	10.400	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.65	0.00	0.00	0.00	0.00
248	10.300	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.61	0.00	0.00	0.00	0.00
249	10.200	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00
250	10.100	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.52	0.00	0.00	0.00	0.00
251	10.000	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.48	0.00	0.00	0.00	0.00
252	9.900	7.33	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.44	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN µg/L	PHOS g/m³	CHL A #/100mL	MACRO	COLI	NCM
213	13.800	31.80	0.00	0.00	0.00	6.96	17.15	0.00	17.15	0.00	1.79	0.10	0.16	2.05	0.00	59.50	0.00	0.	0.00
214	13.700	31.80	0.00	0.00	0.00	6.98	17.13	0.00	17.13	0.00	1.79	0.10	0.16	2.04	0.00	59.00	0.00	0.	0.00
215	13.600	31.80	0.00	0.00	0.00	7.00	17.10	0.00	17.10	0.00	1.79	0.10	0.15	2.04	0.00	58.50	0.00	0.	0.00
216	13.500	31.80	0.00	0.00	0.00	7.02	17.08	0.00	17.08	0.00	1.79	0.10	0.15	2.04	0.00	58.00	0.00	0.	0.00
217	13.400	31.80	0.00	0.00	0.00	7.04	17.06	0.00	17.06	0.00	1.78	0.10	0.15	2.03	0.00	57.50	0.00	0.	0.00
218	13.300	31.80	0.00	0.00	0.00	7.06	17.04	0.00	17.04	0.00	1.78	0.10	0.14	2.03	0.00	57.00	0.00	0.	0.00
219	13.200	31.80	0.00	0.00	0.00	7.08	17.02	0.00	17.02	0.00	1.78	0.10	0.14	2.03	0.00	56.50	0.00	0.	0.00
220	13.100	31.80	0.00	0.00	0.00	7.10	16.99	0.00	16.99	0.00	1.78	0.10	0.14	2.02	0.00	56.00	0.00	0.	0.00
221	13.000	31.80	0.00	0.00	0.00	7.12	16.97	0.00	16.97	0.00	1.78	0.10	0.14	2.02	0.00	55.50	0.00	0.	0.00
222	12.900	31.80	0.00	0.00	0.00	7.14	16.95	0.00	16.95	0.00	1.78	0.10	0.13	2.02	0.00	55.00	0.00	0.	0.00
223	12.800	31.80	0.00	0.00	0.00	7.15	16.93	0.00	16.93	0.00	1.78	0.10	0.13	2.01	0.00	54.50	0.00	0.	0.00
224	12.700	31.80	0.00	0.00	0.00	7.17	16.91	0.00	16.91	0.00	1.78	0.10	0.13	2.01	0.00	54.00	0.00	0.	0.00
225	12.600	31.80	0.00	0.00	0.00	7.18	16.88	0.00	16.88	0.00	1.78	0.10	0.13	2.01	0.00	53.50	0.00	0.	0.00
226	12.500	31.80	0.00	0.00	0.00	7.20	16.86	0.00	16.86	0.00	1.78	0.10	0.12	2.00	0.00	53.00	0.00	0.	0.00
227	12.400	31.80	0.00	0.00	0.00	7.21	16.84	0.00	16.84	0.00	1.78	0.10	0.12	2.00	0.00	52.50	0.00	0.	0.00
228	12.300	31.80	0.00	0.00	0.00	7.23	16.82	0.00	16.82	0.00	1.78	0.10	0.12	2.00	0.00	52.00	0.00	0.	0.00
229	12.200	31.80	0.00	0.00	0.00	7.24	16.80	0.00	16.80	0.00	1.77	0.10	0.12	1.99	0.00	51.50	0.00	0.	0.00
230	12.100	31.80	0.00	0.00	0.00	7.25	16.78	0.00	16.78	0.00	1.77	0.10	0.11	1.99	0.00	51.00	0.00	0.	0.00
231	12.000	31.80	0.00	0.00	0.00	7.26	16.75	0.00	16.75	0.00	1.77	0.10	0.11	1.99	0.00	50.50	0.00	0.	0.00
232	11.900	31.80	0.00	0.00	0.00	7.27	16.73	0.00	16.73	0.00	1.77	0.10	0.11	1.98	0.00	50.00	0.00	0.	0.00
233	11.800	31.80	0.00	0.00	0.00	7.28	16.71	0.00	16.71	0.00	1.77	0.10	0.11	1.98	0.00	49.50	0.00	0.	0.00
234	11.700	31.80	0.00	0.00	0.00	7.29	16.69	0.00	16.69	0.00	1.77	0.10	0.11	1.98	0.00	49.00	0.00	0.	0.00
235	11.600	31.80	0.00	0.00	0.00	7.30	16.67	0.00	16.67	0.00	1.77	0.10	0.10	1.98	0.00	48.50	0.00	0.	0.00
236	11.500	31.80	0.00	0.00	0.00	7.31	16.65	0.00	16.65	0.00	1.77	0.10	0.10	1.97	0.00	48.00	0.00	0.	0.00
237	11.400	31.80	0.00	0.00	0.00	7.32	16.62	0.00	16.62	0.00	1.77	0.10	0.10	1.97	0.00	47.50	0.00	0.	0.00
238	11.300	31.80	0.00	0.00	0.00	7.32	16.60	0.00	16.60	0.00	1.77	0.10	0.10	1.97	0.00	47.00	0.00	0.	0.00
239	11.200	31.80	0.00	0.00	0.00	7.33	16.58	0.00	16.58	0.00	1.77	0.10	0.09	1.96	0.00	46.50	0.00	0.	0.00
240	11.100	31.80	0.00	0.00	0.00	7.34	16.56	0.00	16.56	0.00	1.77	0.10	0.09	1.96	0.00	46.00	0.00	0.	0.00
241	11.000	31.80	0.00	0.00	0.00	7.34	16.54	0.00	16.54	0.00	1.77	0.10	0.09	1.96	0.00	45.50	0.00	0.	0.00
242	10.900	31.80	0.00	0.00	0.00	7.35	16.52	0.00	16.52	0.00	1.76	0.10	0.09	1.96	0.00	45.00	0.00	0.	0.00
243	10.800	31.80	0.00	0.00	0.00	7.35	16.50	0.00	16.50	0.00	1.76	0.10	0.09	1.95	0.00	44.50	0.00	0.	0.00
244	10.700	31.80	0.00	0.00	0.00	7.36	16.47	0.00	16.47	0.00	1.76	0.10	0.08	1.95	0.00	44.00	0.00	0.	0.00
245	10.600	31.80	0.00	0.00	0.00	7.36	16.45	0.00	16.45	0.00	1.76	0.10	0.08	1.95	0.00	43.50	0.00	0.	0.00
246	10.500	31.80	0.00	0.00	0.00	7.36	16.43	0.00	16.43	0.00	1.76	0.10	0.08	1.95	0.00	43.00	0.00	0.	0.00

247	10.400	31.80	0.00	0.00	0.00	7.36	16.41	0.00	16.41	0.00	1.76	0.10	0.08	1.94	0.00	42.50	0.00	0.	0.00
248	10.300	31.80	0.00	0.00	0.00	7.37	16.39	0.00	16.39	0.00	1.76	0.10	0.08	1.94	0.00	42.00	0.00	0.	0.00
249	10.200	31.80	0.00	0.00	0.00	7.37	16.37	0.00	16.37	0.00	1.76	0.10	0.08	1.94	0.00	41.50	0.00	0.	0.00
250	10.100	31.80	0.00	0.00	0.00	7.37	16.35	0.00	16.35	0.00	1.76	0.10	0.07	1.94	0.00	41.00	0.00	0.	0.00
251	10.000	31.80	0.00	0.00	0.00	7.37	16.33	0.00	16.33	0.00	1.76	0.10	0.07	1.93	0.00	40.50	0.00	0.	0.00
252	9.900	31.80	0.00	0.00	0.00	7.37	16.31	0.00	16.31	0.00	1.76	0.10	0.07	1.93	0.00	40.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 5 Carenero Bayou to un canal 2 Calibration Simulation for Lake Penchant and Bayou Penchant mode

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
253	UPR RCH	24.82690	31.80	0.00	0.00	0.00	7.37	16.31	0.00	16.31	0.00	1.76	0.10	0.07	0.00	40.00	0.00	0.00
EACH	INCR	0.00794	31.13	0.00	0.00	0.00	5.00	10.00	0.00		1.30	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.01111																
253	WSTLD	-19.34050	31.80	0.00	0.00	0.00	7.37	16.29	0.00	16.29	0.00	1.76	0.10	0.07	0.00	39.75	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TIME days	TRAVEL m	DEPTH m	WIDTH m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
253	9.90	9.80	5.48323	8.9	0.03446	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
254	9.80	9.70	5.48005	8.9	0.03444	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
255	9.70	9.60	5.47688	8.8	0.03442	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
256	9.60	9.50	5.47370	8.8	0.03440	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
257	9.50	9.40	5.47053	8.8	0.03438	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
258	9.40	9.30	5.46735	8.8	0.03436	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
259	9.30	9.20	5.46418	8.8	0.03434	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
260	9.20	9.10	5.46100	8.8	0.03432	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
261	9.10	9.00	5.45783	8.8	0.03430	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
262	9.00	8.90	5.45465	8.8	0.03428	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
263	8.90	8.80	5.45148	8.7	0.03426	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
264	8.80	8.70	5.44830	8.7	0.03424	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
265	8.70	8.60	5.44513	8.7	0.03422	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
266	8.60	8.50	5.44195	8.7	0.03420	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
267	8.50	8.40	5.43878	8.7	0.03418	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
268	8.40	8.30	5.43561	8.7	0.03416	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
269	8.30	8.20	5.43243	8.7	0.03414	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
270	8.20	8.10	5.42926	8.7	0.03412	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
271	8.10	8.00	5.42608	8.6	0.03410	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
272	8.00	7.90	5.42291	8.6	0.03408	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
273	7.90	7.80	5.41973	8.6	0.03406	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
274	7.80	7.70	5.41656	8.6	0.03404	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
275	7.70	7.60	5.41338	8.6	0.03402	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
276	7.60	7.50	5.41021	8.6	0.03400	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
277	7.50	7.40	5.40703	8.6	0.03398	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
278	7.40	7.30	5.40386	8.6	0.03396	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
279	7.30	7.20	5.40068	8.5	0.03394	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
280	7.20	7.10	5.39751	8.5	0.03392	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
281	7.10	7.00	5.39433	8.5	0.03390	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
282	7.00	6.90	5.39116	8.5	0.03388	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	
283	6.90	6.80	5.38798	8.5	0.03386	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034	

284	6.80	6.70	5.38481	8.5	0.03384	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
285	6.70	6.60	5.38163	8.5	0.03382	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
286	6.60	6.50	5.37846	8.5	0.03380	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
287	6.50	6.40	5.37528	8.4	0.03378	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
288	6.40	6.30	5.37211	8.4	0.03376	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
289	6.30	6.20	5.36893	8.4	0.03374	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
290	6.20	6.10	5.36576	8.4	0.03372	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
291	6.10	6.00	5.36259	8.4	0.03370	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
292	6.00	5.90	5.35941	8.4	0.03368	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
293	5.90	5.80	5.35624	8.4	0.03366	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
294	5.80	5.70	5.35306	8.4	0.03364	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
295	5.70	5.60	5.34989	8.3	0.03362	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
296	5.60	5.50	5.34671	8.3	0.03360	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
297	5.50	5.40	5.34354	8.3	0.03358	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
298	5.40	5.30	5.34036	8.3	0.03356	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
299	5.30	5.20	5.33719	8.3	0.03354	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
300	5.20	5.10	5.33401	8.3	0.03352	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
301	5.10	5.00	5.33084	8.3	0.03350	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.034
302	5.00	4.90	5.32766	8.3	0.03348	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
303	4.90	4.80	5.32449	8.2	0.03346	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
304	4.80	4.70	5.32131	8.2	0.03344	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
305	4.70	4.60	5.31814	8.2	0.03342	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
306	4.60	4.50	5.31496	8.2	0.03340	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
307	4.50	4.40	5.31179	8.2	0.03338	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
308	4.40	4.30	5.30861	8.2	0.03336	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
309	4.30	4.20	5.30544	8.2	0.03334	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
310	4.20	4.10	5.30226	8.2	0.03332	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
311	4.10	4.00	5.29909	8.1	0.03330	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
312	4.00	3.90	5.29591	8.1	0.03328	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
313	3.90	3.80	5.29274	8.1	0.03326	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
314	3.80	3.70	5.28957	8.1	0.03324	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
315	3.70	3.60	5.28639	8.1	0.03322	0.03	1.77	90.00	15912.00	9000.00	159.12	0.00	0.000	0.300	0.033
TOT					2.15			1002456.00	567000.00						
AVG				0.0338			1.77	90.00			159.12				
CUM					3.78										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SOD *	BKGD SOD *	FULL SOD *	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY 1/da	SRCE *	NH3 RATE 1/da	NH3 SRCE *	DENIT PROD **	PO4 PROD **	ALG DECAY 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
253	9.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.42	0.00	0.00	0.00	0.00	
254	9.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.40	0.00	0.00	0.00	0.00	
255	9.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.37	0.00	0.00	0.00	0.00	
256	9.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00	
257	9.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	
258	9.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00	
259	9.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00	
260	9.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00	
261	9.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00	
262	8.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
263	8.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00	

264	8.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.00
265	8.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00
266	8.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00
267	8.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00
268	8.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00
269	8.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
270	8.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
271	8.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
272	7.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
273	7.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
274	7.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
275	7.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
276	7.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
277	7.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
278	7.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
279	7.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
280	7.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
281	7.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
282	6.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.38	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
283	6.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
284	6.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
285	6.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
286	6.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00
287	6.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
288	6.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
289	6.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.63	0.00	0.00	0.00	0.00
290	6.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.61	0.00	0.00	0.00	0.00
291	6.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.59	0.00	0.00	0.00	0.00
292	5.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00
293	5.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.54	0.00	0.00	0.00	0.00
294	5.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.52	0.00	0.00	0.00	0.00
295	5.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00
296	5.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.48	0.00	0.00	0.00	0.00
297	5.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.46	0.00	0.00	0.00	0.00
298	5.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.43	0.00	0.00	0.00	0.00
299	5.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.41	0.00	0.00	0.00	0.00
300	5.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.39	0.00	0.00	0.00	0.00
301	5.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00
302	4.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.35	0.00	0.00	0.00	0.00
303	4.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.33	0.00	0.00	0.00	0.00
304	4.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00
305	4.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.00
306	4.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00
307	4.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
308	4.300	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
309	4.200	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
310	4.100	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00
311	4.000	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
312	3.900	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
313	3.800	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00

314	3.700	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
315	3.600	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.03	0.00	0.37	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.40	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT		CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
253	9.800	31.80	0.00	0.00	0.00	7.37	16.29	0.00	16.29	0.00	1.76	0.10	0.07	1.93	0.00	39.75	0.00		0.	0.00
254	9.700	31.80	0.00	0.00	0.00	7.36	16.24	0.00	16.24	0.00	1.75	0.10	0.06	1.92	0.00	39.49	0.00		0.	0.00
255	9.600	31.80	0.00	0.00	0.00	7.36	16.18	0.00	16.18	0.00	1.75	0.10	0.06	1.92	0.00	39.24	0.00		0.	0.00
256	9.500	31.80	0.00	0.00	0.00	7.36	16.13	0.00	16.13	0.00	1.75	0.10	0.06	1.91	0.00	38.98	0.00		0.	0.00
257	9.400	31.80	0.00	0.00	0.00	7.35	16.07	0.00	16.07	0.00	1.75	0.10	0.05	1.90	0.00	38.73	0.00		0.	0.00
258	9.300	31.80	0.00	0.00	0.00	7.35	16.01	0.00	16.01	0.00	1.75	0.10	0.05	1.90	0.00	38.48	0.00		0.	0.00
259	9.200	31.80	0.00	0.00	0.00	7.34	15.96	0.00	15.96	0.00	1.74	0.10	0.04	1.89	0.00	38.22	0.00		0.	0.00
260	9.100	31.80	0.00	0.00	0.00	7.34	15.91	0.00	15.91	0.00	1.74	0.11	0.04	1.89	0.00	37.97	0.00		0.	0.00
261	9.000	31.80	0.00	0.00	0.00	7.33	15.85	0.00	15.85	0.00	1.74	0.11	0.04	1.88	0.00	37.71	0.00		0.	0.00
262	8.900	31.80	0.00	0.00	0.00	7.33	15.80	0.00	15.80	0.00	1.74	0.11	0.03	1.87	0.00	37.46	0.00		0.	0.00
263	8.800	31.80	0.00	0.00	0.00	7.32	15.74	0.00	15.74	0.00	1.73	0.11	0.03	1.87	0.00	37.21	0.00		0.	0.00
264	8.700	31.80	0.00	0.00	0.00	7.31	15.69	0.00	15.69	0.00	1.73	0.11	0.02	1.86	0.00	36.95	0.00		0.	0.00
265	8.600	31.80	0.00	0.00	0.00	7.30	15.64	0.00	15.64	0.00	1.73	0.11	0.02	1.86	0.00	36.70	0.00		0.	0.00
266	8.500	31.80	0.00	0.00	0.00	7.30	15.58	0.00	15.58	0.00	1.73	0.11	0.02	1.85	0.00	36.44	0.00		0.	0.00
267	8.400	31.80	0.00	0.00	0.00	7.29	15.53	0.00	15.53	0.00	1.73	0.11	0.01	1.84	0.00	36.19	0.00		0.	0.00
268	8.300	31.80	0.00	0.00	0.00	7.28	15.48	0.00	15.48	0.00	1.72	0.11	0.01	1.84	0.00	35.94	0.00		0.	0.00
269	8.200	31.80	0.00	0.00	0.00	7.27	15.42	0.00	15.42	0.00	1.72	0.11	0.00	1.83	0.00	35.68	0.00		0.	0.00
270	8.100	31.80	0.00	0.00	0.00	7.26	15.37	0.00	15.37	0.00	1.72	0.11	0.00	1.83	0.00	35.43	0.00		0.	0.00
271	8.000	31.80	0.00	0.00	0.00	7.25	15.32	0.00	15.32	0.00	1.72	0.11	0.00	1.82	0.00	35.17	0.00		0.	0.00
272	7.900	31.80	0.00	0.00	0.00	7.24	15.27	0.00	15.27	0.00	1.72	0.11	0.00	1.82	0.00	34.92	0.00		0.	0.00
273	7.800	31.80	0.00	0.00	0.00	7.23	15.21	0.00	15.21	0.00	1.71	0.11	0.00	1.82	0.00	34.67	0.00		0.	0.00
274	7.700	31.80	0.00	0.00	0.00	7.21	15.16	0.00	15.16	0.00	1.71	0.11	0.00	1.82	0.00	34.41	0.00		0.	0.00
275	7.600	31.80	0.00	0.00	0.00	7.20	15.11	0.00	15.11	0.00	1.71	0.11	0.00	1.82	0.00	34.16	0.00		0.	0.00
276	7.500	31.80	0.00	0.00	0.00	7.19	15.06	0.00	15.06	0.00	1.71	0.11	0.00	1.81	0.00	33.90	0.00		0.	0.00
277	7.400	31.80	0.00	0.00	0.00	7.18	15.01	0.00	15.01	0.00	1.71	0.11	0.00	1.81	0.00	33.65	0.00		0.	0.00
278	7.300	31.80	0.00	0.00	0.00	7.16	14.96	0.00	14.96	0.00	1.70	0.11	0.00	1.81	0.00	33.40	0.00		0.	0.00
279	7.200	31.80	0.00	0.00	0.00	7.15	14.91	0.00	14.91	0.00	1.70	0.11	0.00	1.81	0.00	33.14	0.00		0.	0.00
280	7.100	31.80	0.00	0.00	0.00	7.14	14.85	0.00	14.85	0.00	1.70	0.11	0.00	1.81	0.00	32.89	0.00		0.	0.00
281	7.000	31.80	0.00	0.00	0.00	7.12	14.80	0.00	14.80	0.00	1.70	0.11	0.00	1.80	0.00	32.63	0.00		0.	0.00
282	6.900	31.80	0.00	0.00	0.00	7.11	14.75	0.00	14.75	0.00	1.70	0.11	0.00	1.80	0.00	32.38	0.00		0.	0.00
283	6.800	31.80	0.00	0.00	0.00	7.09	14.70	0.00	14.70	0.00	1.69	0.11	0.00	1.80	0.00	32.13	0.00		0.	0.00
284	6.700	31.80	0.00	0.00	0.00	7.08	14.65	0.00	14.65	0.00	1.69	0.11	0.00	1.80	0.00	31.87	0.00		0.	0.00
285	6.600	31.80	0.00	0.00	0.00	7.06	14.60	0.00	14.60	0.00	1.69	0.11	0.00	1.80	0.00	31.62	0.00		0.	0.00
286	6.500	31.80	0.00	0.00	0.00	7.05	14.55	0.00	14.55	0.00	1.69	0.11	0.00	1.79	0.00	31.37	0.00		0.	0.00
287	6.400	31.80	0.00	0.00	0.00	7.03	14.51	0.00	14.51	0.00	1.68	0.11	0.00	1.79	0.00	31.11	0.00		0.	0.00
288	6.300	31.80	0.00	0.00	0.00	7.01	14.46	0.00	14.46	0.00	1.68	0.11	0.00	1.79	0.00	30.86	0.00		0.	0.00
289	6.200	31.80	0.00	0.00	0.00	7.00	14.41	0.00	14.41	0.00	1.68	0.11	0.00	1.79	0.00	30.60	0.00		0.	0.00
290	6.100	31.80	0.00	0.00	0.00	6.98	14.36	0.00	14.36	0.00	1.68	0.11	0.00	1.79	0.00	30.35	0.00		0.	0.00
291	6.000	31.80	0.00	0.00	0.00	6.96	14.31	0.00	14.31	0.00	1.68	0.11	0.00	1.78	0.00	30.10	0.00		0.	0.00
292	5.900	31.80	0.00	0.00	0.00	6.94	14.26	0.00	14.26	0.00	1.67	0.11	0.00	1.78	0.00	29.84	0.00		0.	0.00
293	5.800	31.80	0.00	0.00	0.00	6.93	14.21	0.00	14.21	0.00	1.67	0.11	0.00	1.78	0.00	29.59	0.00		0.	0.00
294	5.700	31.80	0.00	0.00	0.00	6.91	14.17	0.00	14.17	0.00	1.67	0.11	0.00	1.78	0.00	29.33	0.00		0.	0.00
295	5.600	31.80	0.00	0.00	0.00	6.89	14.12	0.00	14.12	0.00	1.67	0.11	0.00	1.78	0.00	29.08	0.00		0.	0.00

296	5.500	31.80	0.00	0.00	0.00	6.87	14.07	0.00	14.07	0.00	1.67	0.11	0.00	1.78	0.00	28.83	0.00	0.	0.00
297	5.400	31.80	0.00	0.00	0.00	6.85	14.02	0.00	14.02	0.00	1.66	0.11	0.00	1.77	0.00	28.57	0.00	0.	0.00
298	5.300	31.80	0.00	0.00	0.00	6.83	13.97	0.00	13.97	0.00	1.66	0.11	0.00	1.77	0.00	28.32	0.00	0.	0.00
299	5.200	31.80	0.00	0.00	0.00	6.81	13.93	0.00	13.93	0.00	1.66	0.11	0.00	1.77	0.00	28.06	0.00	0.	0.00
300	5.100	31.80	0.00	0.00	0.00	6.79	13.88	0.00	13.88	0.00	1.66	0.11	0.00	1.77	0.00	27.81	0.00	0.	0.00
301	5.000	31.80	0.00	0.00	0.00	6.77	13.83	0.00	13.83	0.00	1.66	0.11	0.00	1.77	0.00	27.56	0.00	0.	0.00
302	4.900	31.80	0.00	0.00	0.00	6.75	13.79	0.00	13.79	0.00	1.65	0.11	0.00	1.76	0.00	27.30	0.00	0.	0.00
303	4.800	31.80	0.00	0.00	0.00	6.73	13.74	0.00	13.74	0.00	1.65	0.11	0.00	1.76	0.00	27.05	0.00	0.	0.00
304	4.700	31.80	0.00	0.00	0.00	6.71	13.70	0.00	13.70	0.00	1.65	0.11	0.00	1.76	0.00	26.79	0.00	0.	0.00
305	4.600	31.80	0.00	0.00	0.00	6.69	13.65	0.00	13.65	0.00	1.65	0.11	0.00	1.76	0.00	26.54	0.00	0.	0.00
306	4.500	31.80	0.00	0.00	0.00	6.67	13.60	0.00	13.60	0.00	1.65	0.11	0.00	1.76	0.00	26.29	0.00	0.	0.00
307	4.400	31.80	0.00	0.00	0.00	6.65	13.56	0.00	13.56	0.00	1.65	0.11	0.00	1.75	0.00	26.03	0.00	0.	0.00
308	4.300	31.80	0.00	0.00	0.00	6.63	13.51	0.00	13.51	0.00	1.64	0.11	0.00	1.75	0.00	25.78	0.00	0.	0.00
309	4.200	31.80	0.00	0.00	0.00	6.60	13.47	0.00	13.47	0.00	1.64	0.11	0.00	1.75	0.00	25.52	0.00	0.	0.00
310	4.100	31.80	0.00	0.00	0.00	6.58	13.42	0.00	13.42	0.00	1.64	0.11	0.00	1.75	0.00	25.27	0.00	0.	0.00
311	4.000	31.80	0.00	0.00	0.00	6.56	13.38	0.00	13.38	0.00	1.64	0.11	0.00	1.75	0.00	25.02	0.00	0.	0.00
312	3.900	31.80	0.00	0.00	0.00	6.54	13.33	0.00	13.33	0.00	1.64	0.11	0.00	1.74	0.00	24.76	0.00	0.	0.00
313	3.800	31.80	0.00	0.00	0.00	6.51	13.29	0.00	13.29	0.00	1.63	0.11	0.00	1.74	0.00	24.51	0.00	0.	0.00
314	3.700	31.80	0.00	0.00	0.00	6.49	13.24	0.00	13.24	0.00	1.63	0.11	0.00	1.74	0.00	24.25	0.00	0.	0.00
315	3.600	31.80	0.00	0.00	0.00	6.47	13.20	0.00	13.20	0.00	1.63	0.11	0.00	1.74	0.00	24.00	0.00	0.	0.00

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 6 un canal 2 to Corasaw conf. Calibration Simulation for Lake Penchant and Bayou Penchant mode

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
316	UPR RCH	5.28639	31.80	0.00	0.00	0.00	6.47	13.20	0.00	13.20	0.00	1.63	0.11	0.00	0.00	24.00	0.00	0.00
EACH	INCR	0.01667	31.13	0.00	0.00	0.00	5.00	10.00	0.00		1.30	0.10	0.04	0.00	0.00	0.00		
EACH	INCR	-0.02333																

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
316	3.60	3.50	5.27972	8.1	0.02715	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
317	3.50	3.40	5.27306	8.0	0.02711	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
318	3.40	3.30	5.26639	8.0	0.02708	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
319	3.30	3.20	5.25972	8.0	0.02705	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
320	3.20	3.10	5.25306	8.0	0.02701	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
321	3.10	3.00	5.24639	7.9	0.02698	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
322	3.00	2.90	5.23972	7.9	0.02694	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
323	2.90	2.80	5.23306	7.9	0.02691	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
324	2.80	2.70	5.22639	7.9	0.02687	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
325	2.70	2.60	5.21972	7.8	0.02684	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
326	2.60	2.50	5.21306	7.8	0.02681	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
327	2.50	2.40	5.20639	7.8	0.02677	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
328	2.40	2.30	5.19972	7.8	0.02674	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
329	2.30	2.20	5.19306	7.7	0.02670	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
330	2.20	2.10	5.18639	7.7	0.02667	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
331	2.10	2.00	5.17972	7.7	0.02663	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
332	2.00	1.90	5.17306	7.7	0.02660	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
333	1.90	1.80	5.16639	7.6	0.02657	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027

334	1.80	1.70	5.15972	7.6	0.02653	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.027
335	1.70	1.60	5.15306	7.6	0.02650	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
336	1.60	1.50	5.14639	7.6	0.02646	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
337	1.50	1.40	5.13972	7.5	0.02643	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
338	1.40	1.30	5.13306	7.5	0.02639	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
339	1.30	1.20	5.12639	7.5	0.02636	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
340	1.20	1.10	5.11972	7.5	0.02633	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
341	1.10	1.00	5.11306	7.4	0.02629	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
342	1.00	0.90	5.10639	7.4	0.02626	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
343	0.90	0.80	5.09972	7.4	0.02622	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
344	0.80	0.70	5.09306	7.4	0.02619	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
345	0.70	0.60	5.08639	7.4	0.02615	0.04	1.77	110.00	19448.00	11000.00	194.48	0.00	0.000	0.400	0.026
TOT					1.30			583440.00	330000.00						
AVG				0.0266			1.77	110.00			194.48				
CUM					5.09										

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	ABOD#1 DECAY	BOD#2 DECAY	BOD#2 SETT	ABOD#2 DECAY	BKGD SOD	FULL SOD	CORR SOD	ORGN DECAY	ORGN SETT	NH3 DECAY	NH3 SRCE	DENIT RATE	PO4 SRCE	ALG PROD	MAC PROD	COLI DECAY	NCM DECAY	NCM SETT
	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da	
316	3.500	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
317	3.400	7.33	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
318	3.300	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
319	3.200	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
320	3.100	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
321	3.000	7.32	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
322	2.900	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
323	2.800	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
324	2.700	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
325	2.600	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
326	2.500	7.31	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
327	2.400	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
328	2.300	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
329	2.200	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
330	2.100	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
331	2.000	7.30	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
332	1.900	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
333	1.800	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
334	1.700	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
335	1.600	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
336	1.500	7.29	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.03	0.00	0.37	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
337	1.400	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.03	0.00	0.37	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
338	1.300	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
339	1.200	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
340	1.100	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
341	1.000	7.28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
342	0.900	7.27	0.49	0.09	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
343	0.800	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
344	0.700	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
345	0.600	7.27	0.50	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.40	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT		CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A #/100mL	MACRO	COLI	NCM
316	3.500	31.82	0.00	0.00	0.00	6.44	13.14	0.00	13.14	0.00	1.63	0.11	0.00	1.74	0.00	24.00	0.00	0.	0.00	
317	3.400	31.83	0.00	0.00	0.00	6.41	13.08	0.00	13.08	0.00	1.62	0.11	0.00	1.73	0.00	24.00	0.00	0.	0.00	
318	3.300	31.85	0.00	0.00	0.00	6.38	13.02	0.00	13.02	0.00	1.62	0.11	0.00	1.73	0.00	24.00	0.00	0.	0.00	
319	3.200	31.87	0.00	0.00	0.00	6.35	12.96	0.00	12.96	0.00	1.62	0.11	0.00	1.73	0.00	24.00	0.00	0.	0.00	
320	3.100	31.88	0.00	0.00	0.00	6.33	12.91	0.00	12.91	0.00	1.62	0.11	0.00	1.72	0.00	24.00	0.00	0.	0.00	
321	3.000	31.90	0.00	0.00	0.00	6.30	12.85	0.00	12.85	0.00	1.61	0.11	0.00	1.72	0.00	24.00	0.00	0.	0.00	
322	2.900	31.92	0.00	0.00	0.00	6.27	12.79	0.00	12.79	0.00	1.61	0.11	0.00	1.72	0.00	24.00	0.00	0.	0.00	
323	2.800	31.93	0.00	0.00	0.00	6.25	12.74	0.00	12.74	0.00	1.61	0.11	0.00	1.72	0.00	24.00	0.00	0.	0.00	
324	2.700	31.95	0.00	0.00	0.00	6.23	12.68	0.00	12.68	0.00	1.60	0.11	0.00	1.71	0.00	24.00	0.00	0.	0.00	
325	2.600	31.97	0.00	0.00	0.00	6.20	12.63	0.00	12.63	0.00	1.60	0.11	0.00	1.71	0.00	24.00	0.00	0.	0.00	
326	2.500	31.98	0.00	0.00	0.00	6.18	12.57	0.00	12.57	0.00	1.60	0.11	0.00	1.71	0.00	24.00	0.00	0.	0.00	
327	2.400	32.00	0.00	0.00	0.00	6.16	12.52	0.00	12.52	0.00	1.60	0.11	0.00	1.71	0.00	24.00	0.00	0.	0.00	
328	2.300	32.02	0.00	0.00	0.00	6.14	12.46	0.00	12.46	0.00	1.59	0.11	0.00	1.70	0.00	24.00	0.00	0.	0.00	
329	2.200	32.03	0.00	0.00	0.00	6.12	12.41	0.00	12.41	0.00	1.59	0.11	0.00	1.70	0.00	24.00	0.00	0.	0.00	
330	2.100	32.05	0.00	0.00	0.00	6.10	12.35	0.00	12.35	0.00	1.59	0.11	0.00	1.70	0.00	24.00	0.00	0.	0.00	
331	2.000	32.07	0.00	0.00	0.00	6.08	12.30	0.00	12.30	0.00	1.59	0.11	0.00	1.69	0.00	24.00	0.00	0.	0.00	
332	1.900	32.08	0.00	0.00	0.00	6.06	12.25	0.00	12.25	0.00	1.58	0.11	0.00	1.69	0.00	24.00	0.00	0.	0.00	
333	1.800	32.10	0.00	0.00	0.00	6.04	12.19	0.00	12.19	0.00	1.58	0.11	0.00	1.69	0.00	24.00	0.00	0.	0.00	
334	1.700	32.12	0.00	0.00	0.00	6.02	12.14	0.00	12.14	0.00	1.58	0.11	0.00	1.69	0.00	24.00	0.00	0.	0.00	
335	1.600	32.13	0.00	0.00	0.00	6.01	12.09	0.00	12.09	0.00	1.58	0.11	0.00	1.68	0.00	24.00	0.00	0.	0.00	
336	1.500	32.15	0.00	0.00	0.00	5.99	12.03	0.00	12.03	0.00	1.57	0.11	0.00	1.68	0.00	24.00	0.00	0.	0.00	
337	1.400	32.17	0.00	0.00	0.00	5.97	11.98	0.00	11.98	0.00	1.57	0.11	0.00	1.68	0.00	24.00	0.00	0.	0.00	
338	1.300	32.18	0.00	0.00	0.00	5.96	11.93	0.00	11.93	0.00	1.57	0.11	0.00	1.68	0.00	24.00	0.00	0.	0.00	
339	1.200	32.20	0.00	0.00	0.00	5.94	11.88	0.00	11.88	0.00	1.56	0.11	0.00	1.67	0.00	24.00	0.00	0.	0.00	
340	1.100	32.22	0.00	0.00	0.00	5.93	11.83	0.00	11.83	0.00	1.56	0.11	0.00	1.67	0.00	24.00	0.00	0.	0.00	
341	1.000	32.23	0.00	0.00	0.00	5.91	11.78	0.00	11.78	0.00	1.56	0.11	0.00	1.67	0.00	24.00	0.00	0.	0.00	
342	0.900	32.25	0.00	0.00	0.00	5.90	11.72	0.00	11.72	0.00	1.56	0.11	0.00	1.67	0.00	24.00	0.00	0.	0.00	
343	0.800	32.27	0.00	0.00	0.00	5.89	11.67	0.00	11.67	0.00	1.56	0.11	0.00	1.66	0.00	24.00	0.00	0.	0.00	
344	0.700	32.28	0.00	0.00	0.00	5.88	11.59	0.00	11.59	0.00	1.56	0.11	0.00	1.67	0.00	24.00	0.00	0.	0.00	
345	0.600	32.30	0.00	0.00	0.00	5.89	11.32	0.00	11.32	0.00	1.60	0.11	0.00	1.71	0.00	24.00	0.00	0.	0.00	

FINAL REPORT Bayou Chene LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 17 Corasaw conf. to 120401-C Calibration Simulation for Lake Penchant and Bayou Penchant mode

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS	CHL A #/100mL	COLI	NCM
526	UPR RCH	5.08639	32.30	0.00	0.00	0.00	0.00	5.89	11.32	0.00	11.32	0.00	1.60	0.11	0.00	0.00 24.00	0.00	0.00
526	TRIB	3.72368	32.30	0.00	0.00	0.00	0.00	6.35	6.52	0.00	6.52	0.00	2.44	0.14	0.00	0.00 24.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
526	0.60	0.50	8.81007	22.1	0.07141	0.02	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.071
527	0.50	0.40	8.81007	22.1	0.07141	0.02	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.071
528	0.40	0.30	8.81007	22.1	0.07141	0.02	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.071
529	0.30	0.20	8.81007	22.1	0.07141	0.02	1.40	88.00	12337.60	8800.00	123.38	0.00	0.000	0.500	0.071

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 530   0.20   0.10   8.81007  22.1   0.07141    0.02   1.40   88.00  12337.60   8800.00  123.38     0.00  0.000     0.500  0.071
 531   0.10   0.00   8.81007  22.1   0.07141    0.02   1.40   88.00  12337.60   8800.00  123.38     0.00  0.000     0.500  0.071
 TOT                                   0.10                 74025.60   52800.00
 AVG                            0.0714          1.40   88.00                  123.38
 CUM                                   5.18
********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************
ELEM  ENDING  SAT   REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR  ORGN ORGN   NH3  NH3 DENIT  PO4  ALG  MAC  COLI  NCM   NCM
NO.    DIST  D.O.   RATE  DECAY SETT  DECAY  DECAY  SETT  DECAY  SOD   SOD   SOD  DECAY  SETT  DECAY SRCE  RATE SRCE PROD PROD DECAY DECAY  SETT
          mg/L   1/da  1/da  1/da  1/da  1/da  1/da  1/da   *    *    *   1/da  1/da  1/da   *   1/da   *   **   **   1/da  1/da  1/da
526   0.500  7.27   0.79  0.09  0.00  0.00  0.00  0.00  0.00  3.25  3.25  3.25  0.03  0.00  0.38  0.00  0.00  0.00  2.11  0.00  0.00  0.00  0.00
527   0.400  7.27   0.79  0.09  0.00  0.00  0.00  0.00  0.00  3.25  3.25  3.25  0.03  0.00  0.38  0.00  0.00  0.00  2.11  0.00  0.00  0.00  0.00
528   0.300  7.27   0.79  0.09  0.00  0.00  0.00  0.00  0.00  3.24  3.24  3.24  0.03  0.00  0.38  0.00  0.00  0.00  2.11  0.00  0.00  0.00  0.00
529   0.200  7.28   0.79  0.09  0.00  0.00  0.00  0.00  0.00  3.24  3.24  3.24  0.03  0.00  0.38  0.00  0.00  0.00  2.10  0.00  0.00  0.00  0.00
530   0.100  7.28   0.79  0.09  0.00  0.00  0.00  0.00  0.00  3.24  3.24  3.24  0.03  0.00  0.38  0.00  0.00  0.00  2.10  0.00  0.00  0.00  0.00
531   0.000  7.28   0.79  0.09  0.00  0.00  0.00  0.00  0.00  3.23  3.23  3.23  0.03  0.00  0.38  0.00  0.00  0.00  2.10  0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.63  0.05  0.00  0.00  0.00  0.00  0.00  1.50            0.02  0.00  0.15  0.00  0.00  0.00            0.00  0.00  0.00
*  g/m²/d          **   mg/L/day
********************************************** WATER QUALITY CONSTITUENT VALUES **********************************************
ELEM  ENDING   TEMP  SALN    CM-I   CM-II   DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN   NH3  NO3+2   TOTN   PHOS  CHL A  MACRO    COLI    NCM
NO.    DIST  DEG C   PPT                mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L   µg/L   g/m³  #/100mL
526   0.500  32.28  0.00    0.00    0.00  6.07  9.39  0.00  9.39  0.00  1.93  0.12  0.00  2.06  0.00  24.00   0.00      0.   0.00
527   0.400  32.27  0.00    0.00    0.00  6.06  9.38  0.00  9.38  0.00  1.93  0.12  0.00  2.05  0.00  24.00   0.00      0.   0.00
528   0.300  32.25  0.00    0.00    0.00  6.06  9.36  0.00  9.36  0.00  1.93  0.12  0.00  2.05  0.00  24.00   0.00      0.   0.00
529   0.200  32.23  0.00    0.00    0.00  6.06  9.35  0.00  9.35  0.00  1.93  0.12  0.00  2.05  0.00  24.00   0.00      0.   0.00
530   0.100  32.22  0.00    0.00    0.00  6.05  9.28  0.00  9.28  0.00  1.91  0.12  0.00  2.04  0.00  24.00   0.00      0.   0.00
531   0.000  32.20  0.00    0.00    0.00  6.05  8.45  0.00  8.45  0.00  1.69  0.12  0.00  1.81  0.00  24.00   0.00      0.   0.00
STREAM SUMMARY                                    LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
Bayou Chene                                  Calibration Simulation for Lake Penchant and Bayou Penchant mode
 TRAVEL TIME      =          5.18 DAYS
 MAXIMUM EFFLUENT  =         22.14 PERCENT
 FLOW            =  5.08639 TO   30.66125   m³/s
 DISPERSION       =  0.3000  TO    0.6000    m²/s
 VELOCITY         =  0.02615 TO    0.27696   m/s
 DEPTH           =  1.00    TO    1.77      m
 WIDTH           =  88.00    TO  155.00      m
 BOD DECAY        =    0.09   TO    0.21      per day
 NH3 DECAY        =    0.35   TO    0.38      per day
 SOD             =   3.15   TO    5.68      g/m²/d
 NH3 SOURCE       =    0.00   TO    0.00      g/m²/d
 REAERATION       =    0.49   TO    2.57      per day
 BOD SETTLING     =    0.00   TO    0.00      per day
 ORG-N DECAY      =    0.02   TO    0.03      per day
 ORG-N SETTLING   =    0.00   TO    0.00      per day
 TEMPERATURE      =   31.22   TO   32.30      deg C
 DISSOLVED OXYGEN  =   5.88   TO    7.37      mg/L
FINAL REPORT    Station 935                       LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO.  7     935 to Peoples Canal and L.P                Calibration Simulation for Lake Penchant and Bayou Penchant mode
********************************************************** REACH INPUTS ************************************************************
ELEM  TYPE       FLOW    TEMP    SALN    CM-I   CM-II    DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A    COLI    NCM
NO.                deg C     ppt                mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L   µg/L  #/100mL
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346 HDWTR 0.11327 31.20 0.00 0.00 0.00 4.70 3.42 0.00 3.42 0.00 0.90 0.10 0.04 0.00 10.00 0.00 0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN
346	18.00	17.90	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
347	17.90	17.80	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
348	17.80	17.70	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
349	17.70	17.60	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
350	17.60	17.50	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
351	17.50	17.40	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
352	17.40	17.30	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
353	17.30	17.20	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
354	17.20	17.10	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
355	17.10	17.00	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
356	17.00	16.90	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
357	16.90	16.80	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
358	16.80	16.70	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
359	16.70	16.60	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
360	16.60	16.50	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
361	16.50	16.40	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
362	16.40	16.30	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
363	16.30	16.20	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
364	16.20	16.10	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
365	16.10	16.00	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
366	16.00	15.90	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
367	15.90	15.80	0.11327	0.0	0.00183	0.63	1.77	35.00	6188.00	3500.00	61.88	0.00	0.000	0.000	0.002	
TOT					13.91				136136.00	77000.00						
AVG				0.0018		1.77	35.00				61.88					
CUM					13.91											

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY *	BKGD SETT *	FULL DECAY *	CORR SOD 1/da	CORR SOD 1/da	ORGN SOD *	ORGN DECAY 1/da	ORGN SETT *	NH3 DECAY **	NH3 SRCE **	DENIT RATE 1/da	PO4 SRCE *	ALG PROD 1/da	MAC PROD 1/da	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
346	17.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00		
347	17.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00		
348	17.700	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.03	0.00	0.23	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00		
349	17.600	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.03	0.00	0.23	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
350	17.500	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	3.07	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
351	17.400	7.38	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	3.07	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
352	17.300	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
353	17.200	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
354	17.100	7.39	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
355	17.000	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	3.05	0.03	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
356	16.900	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	3.05	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
357	16.800	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
358	16.700	7.40	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
359	16.600	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	3.03	0.02	0.00	0.22	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00		
360	16.500	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	3.03	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00		
361	16.400	7.41	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00		

362	16.300	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
363	16.200	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
364	16.100	7.42	0.49	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	3.01	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
365	16.000	7.42	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	3.01	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
366	15.900	7.43	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.00	3.00	3.00	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
367	15.800	7.43	0.48	0.08	0.00	0.00	0.00	0.00	0.00	3.00	3.00	3.00	0.02	0.00	0.22	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.40	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.10	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN µg/L	PHOS g/m³	CHL A	MACRO	COLI #/100mL	NCM
346	17.900	31.48	0.00	0.00	0.00	4.71	3.25	0.00	3.25	0.00	0.89	0.10	0.03	1.01	0.00	10.00	0.00	0.	0.00
347	17.800	31.45	0.00	0.00	0.00	4.73	3.08	0.00	3.08	0.00	0.87	0.10	0.01	0.99	0.00	10.00	0.00	0.	0.00
348	17.700	31.43	0.00	0.00	0.00	4.76	2.92	0.00	2.92	0.00	0.86	0.10	0.00	0.96	0.00	10.00	0.00	0.	0.00
349	17.600	31.41	0.00	0.00	0.00	4.78	2.78	0.00	2.78	0.00	0.85	0.10	0.00	0.94	0.00	10.00	0.00	0.	0.00
350	17.500	31.39	0.00	0.00	0.00	4.81	2.64	0.00	2.64	0.00	0.83	0.10	0.00	0.93	0.00	10.00	0.00	0.	0.00
351	17.400	31.36	0.00	0.00	0.00	4.84	2.50	0.00	2.50	0.00	0.82	0.10	0.00	0.92	0.00	10.00	0.00	0.	0.00
352	17.300	31.34	0.00	0.00	0.00	4.87	2.38	0.00	2.38	0.00	0.81	0.10	0.00	0.90	0.00	10.00	0.00	0.	0.00
353	17.200	31.32	0.00	0.00	0.00	4.89	2.26	0.00	2.26	0.00	0.79	0.10	0.00	0.89	0.00	10.00	0.00	0.	0.00
354	17.100	31.30	0.00	0.00	0.00	4.92	2.14	0.00	2.14	0.00	0.78	0.09	0.00	0.88	0.00	10.00	0.00	0.	0.00
355	17.000	31.27	0.00	0.00	0.00	4.95	2.03	0.00	2.03	0.00	0.77	0.09	0.00	0.86	0.00	10.00	0.00	0.	0.00
356	16.900	31.25	0.00	0.00	0.00	4.98	1.93	0.00	1.93	0.00	0.76	0.09	0.00	0.85	0.00	10.00	0.00	0.	0.00
357	16.800	31.23	0.00	0.00	0.00	5.00	1.84	0.00	1.84	0.00	0.75	0.09	0.00	0.84	0.00	10.00	0.00	0.	0.00
358	16.700	31.20	0.00	0.00	0.00	5.03	1.74	0.00	1.74	0.00	0.73	0.09	0.00	0.82	0.00	10.00	0.00	0.	0.00
359	16.600	31.18	0.00	0.00	0.00	5.05	1.66	0.00	1.66	0.00	0.72	0.09	0.00	0.81	0.00	10.00	0.00	0.	0.00
360	16.500	31.16	0.00	0.00	0.00	5.08	1.57	0.00	1.57	0.00	0.71	0.09	0.00	0.80	0.00	10.00	0.00	0.	0.00
361	16.400	31.14	0.00	0.00	0.00	5.10	1.49	0.00	1.49	0.00	0.70	0.09	0.00	0.79	0.00	10.00	0.00	0.	0.00
362	16.300	31.11	0.00	0.00	0.00	5.12	1.42	0.00	1.42	0.00	0.69	0.09	0.00	0.77	0.00	10.00	0.00	0.	0.00
363	16.200	31.09	0.00	0.00	0.00	5.15	1.35	0.00	1.35	0.00	0.68	0.08	0.00	0.76	0.00	10.00	0.00	0.	0.00
364	16.100	31.07	0.00	0.00	0.00	5.17	1.28	0.00	1.28	0.00	0.67	0.08	0.00	0.75	0.00	10.00	0.00	0.	0.00
365	16.000	31.05	0.00	0.00	0.00	5.19	1.22	0.00	1.22	0.00	0.66	0.08	0.00	0.74	0.00	10.00	0.00	0.	0.00
366	15.900	31.02	0.00	0.00	0.00	5.21	1.16	0.00	1.16	0.00	0.65	0.08	0.00	0.73	0.00	10.00	0.00	0.	0.00
367	15.800	31.00	0.00	0.00	0.00	5.23	1.10	0.00	1.10	0.00	0.64	0.08	0.00	0.72	0.00	10.00	0.00	0.	0.00

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

REACH NO. 8 Peoples C. and L.P to N. Outlet Calibration Simulation for Lake Penchant and Bayou Penchant mode

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
368	UPR RCH	0.11327	31.00	0.00	0.00	0.00	5.23	1.10	0.00	1.10	0.00	0.64	0.08	0.00	0.00	10.00	0.00	0.00
EACH	INCR	0.17084	31.13	0.00	0.00	0.00	5.00	9.30	0.00		1.30	0.10	0.04	0.00	0.00	0.00		

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO m/s
368	15.80	15.70	0.28411	0.0	0.00008	15.35	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
369	15.70	15.60	0.45496	0.0	0.00012	9.58	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
370	15.60	15.50	0.62580	0.0	0.00017	6.97	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
371	15.50	15.40	0.79665	0.0	0.00021	5.47	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
372	15.40	15.30	0.96749	0.0	0.00026	4.51	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000
373	15.30	15.20	1.13834	0.0	0.00030	3.83	1.77	2131.00	376760.78	213100.00	3767.61	0.00	0.000	0.000	0.000

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 374  15.20  15.10   1.30918  0.0  0.00035    3.33   1.77 2131.00 376760.78  213100.00 3767.61     0.00  0.000    0.000  0.000
 375  15.10  15.00   1.48003  0.0  0.00039    2.95   1.77 2131.00 376760.78  213100.00 3767.61     0.00  0.000    0.000  0.000
 376  15.00  14.90   1.65087  0.0  0.00044    2.64   1.77 2131.00 376760.78  213100.00 3767.61     0.00  0.000    0.000  0.000
 TOT                                  54.63            3390847.00 1917900.00
 AVG                          0.0002          1.77 2131.00                 3767.61
 CUM                                  68.54
********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************
ELEM  ENDING  SAT   REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR  ORGN ORGN   NH3  NH3 DENIT  PO4  ALG  MAC  COLI  NCM   NCM
NO.   DIST D.O.   RATE DECAY SETT DECAY DECAY SETT DECAY  SOD  SOD  SOD DECAY SETT DECAY SRCE  RATE SRCE PROD PROD DECAY DECAY  SETT
          mg/L   1/da  1/da 1/da  1/da  1/da 1/da  1/da  1/da   *    *    *   1/da 1/da  1/da   *   1/da   *   **   **   1/da  1/da  1/da
368  15.700 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
369  15.600 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
370  15.500 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
371  15.400 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
372  15.300 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
373  15.200 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
374  15.100 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
375  15.000 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
376  14.900 7.43   0.64  0.08 0.00  0.00  0.00 0.00  0.00 1.20 1.20 1.20  0.02 0.00  0.23 0.00  0.00 0.00 0.83 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.53  0.05 0.00  0.00  0.00 0.00  0.00 0.60            0.02 0.00  0.10 0.00  0.00 0.00            0.00  0.00  0.00
*  g/m²/d          **  mg/L/day
********************************************** WATER QUALITY CONSTITUENT VALUES **********************************************
ELEM  ENDING  TEMP  SALN    CM-I   CM-II   DO  BOD#1  BOD#2 EBOD#1 EBOD#2  ORGN   NH3  NO3+2  TOTN  PHOS  CHL A  MACRO    COLI    NCM
NO.   DIST  DEG C  PPT              mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L   g/m³  #/100mL
368  15.700 31.00 0.00    0.00    0.00  7.00  2.65  0.00  2.65  0.00  0.75  0.08  0.00  0.83  0.00 10.00  0.00     0.   0.00
369  15.600 31.00 0.00    0.00    0.00  7.03  2.87  0.00  2.87  0.00  0.77  0.08  0.00  0.86  0.00 10.00  0.00     0.   0.00
370  15.500 31.00 0.00    0.00    0.00  7.03  2.93  0.00  2.93  0.00  0.78  0.09  0.00  0.87  0.00 10.00  0.00     0.   0.00
371  15.400 31.00 0.00    0.00    0.00  7.03  2.96  0.00  2.96  0.00  0.79  0.09  0.00  0.87  0.00 10.00  0.00     0.   0.00
372  15.300 31.00 0.00    0.00    0.00  7.02  2.97  0.00  2.97  0.00  0.79  0.09  0.00  0.87  0.00 10.00  0.00     0.   0.00
373  15.200 31.00 0.00    0.00    0.00  7.02  2.97  0.00  2.97  0.00  0.79  0.09  0.00  0.88  0.00 10.00  0.00     0.   0.00
374  15.100 31.00 0.00    0.00    0.00  7.02  2.98  0.00  2.98  0.00  0.79  0.09  0.00  0.88  0.00 10.00  0.00     0.   0.00
375  15.000 31.00 0.00    0.00    0.00  7.02  2.98  0.00  2.98  0.00  0.79  0.09  0.00  0.88  0.00 10.00  0.00     0.   0.00
376  14.900 31.00 0.00    0.00    0.00  7.02  2.98  0.00  2.98  0.00  0.79  0.09  0.00  0.88  0.00 10.00  0.00     0.   0.00
FINAL REPORT    Station 935                    LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO.  9    N. Outlet to L. Penchant W. Sid          Calibration Simulation for Lake Penchant and Bayou Penchant mode
********************************************************** REACH INPUTS **********************************************************
ELEM  TYPE       FLOW    TEMP    SALN    CM-I   CM-II    DO  BOD#1  BOD#2 EBOD#1 EBOD#2  ORGN   NH3  NO3+2  PHOS  CHL A    COLI    NCM
NO.              deg C    ppt              mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  #/100mL
 377  UPR RCH  1.65087  31.00    0.00    0.00    0.00  7.02  2.98  0.00  2.98  0.00  0.79  0.09  0.00  0.00 10.00    0.00    0.00
EACH  INCR     0.27598  31.13    0.00    0.00    0.00  5.00  9.30  0.00            2.80  0.10  0.04  0.00    0.00    0.00
EACH  INCR    -0.12308
********************************************************* HYDRAULIC PARAMETER VALUES *********************************************
ELEM  BEGIN  ENDING     FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE  X-SECT    TIDAL  TIDAL  DISPRSN   MEAN
 NO.  DIST   DIST        EFF   VELO    TIME                          AREA    AREA    PRISM   VELO          VELO
      km     km        m³/s          m/s   days     m      m      m³       m²      m²      m³     m/s    m²/s    m/s
 377  14.90  14.80   1.80378  0.0  0.00104    1.12   1.77  983.00 173794.39  98300.00 1737.94     0.00  0.000    0.000  0.001
 378  14.80  14.70   1.95669  0.0  0.00113    1.03   1.77  983.00 173794.39  98300.00 1737.94     0.00  0.000    0.000  0.001
 379  14.70  14.60   2.10959  0.0  0.00121    0.95   1.77  983.00 173794.39  98300.00 1737.94     0.00  0.000    0.000  0.001
 380  14.60  14.50   2.26250  0.0  0.00130    0.89   1.77  983.00 173794.39  98300.00 1737.94     0.00  0.000    0.000  0.001
 381  14.50  14.40   2.41541  0.0  0.00139    0.83   1.77  983.00 173794.39  98300.00 1737.94     0.00  0.000    0.000  0.001
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382	14.40	14.30	2.56832	0.0	0.00148	0.78	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.001					
383	14.30	14.20	2.72122	0.0	0.00157	0.74	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002					
384	14.20	14.10	2.87413	0.0	0.00165	0.70	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002					
385	14.10	14.00	3.02704	0.0	0.00174	0.66	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002					
386	14.00	13.90	3.17995	0.0	0.00183	0.63	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002					
387	13.90	13.80	3.33285	0.0	0.00192	0.60	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002					
388	13.80	13.70	3.48576	0.0	0.00201	0.58	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002					
389	13.70	13.60	3.63867	0.0	0.00209	0.55	1.77	983.00	173794.39	98300.00	1737.94	0.00	0.000	0.000	0.002					
TOT					10.07			2259327.00	1277900.00											
AVG				0.0015		1.77	983.00			1737.94										
CUM					78.61															

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE **	PO4 SRCE **	ALG PROD 1/da	MAC PROD 1/da	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
377	14.800	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
378	14.700	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.01	3.01	3.01	0.02	0.00	0.23	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
379	14.600	7.42	0.64	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.02	0.00	0.23	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
380	14.500	7.41	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.03	3.03	3.03	0.02	0.00	0.23	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
381	14.400	7.41	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
382	14.300	7.40	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.04	3.04	3.04	0.02	0.00	0.23	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
383	14.200	7.40	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.05	3.05	3.05	0.03	0.00	0.23	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
384	14.100	7.39	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
385	14.000	7.39	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.06	0.03	0.00	0.23	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
386	13.900	7.38	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.07	3.07	3.07	0.03	0.00	0.24	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
387	13.800	7.38	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.03	0.00	0.24	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
388	13.700	7.37	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.03	0.00	0.24	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
389	13.600	7.37	0.65	0.08	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.03	0.00	0.24	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.53	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.10	0.00	0.00	0.00			0.00	0.00	0.00

* $g/m^2/d$ ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT		CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS µg/L	CHL A g/m^3	MACRO	COLI #/100mL	NCM
377	14.800	31.04	0.00	0.00	0.00	6.28	3.58	0.00	3.58	0.00	1.05	0.09	0.00	1.15	0.00	11.15	0.00	0.	0.00	
378	14.700	31.08	0.00	0.00	0.00	5.95	4.01	0.00	4.01	0.00	1.25	0.10	0.00	1.36	0.00	12.31	0.00	0.	0.00	
379	14.600	31.12	0.00	0.00	0.00	5.81	4.34	0.00	4.34	0.00	1.41	0.11	0.00	1.52	0.00	13.46	0.00	0.	0.00	
380	14.500	31.15	0.00	0.00	0.00	5.77	4.59	0.00	4.59	0.00	1.54	0.12	0.00	1.66	0.00	14.62	0.00	0.	0.00	
381	14.400	31.19	0.00	0.00	0.00	5.78	4.79	0.00	4.79	0.00	1.65	0.13	0.00	1.77	0.00	15.77	0.00	0.	0.00	
382	14.300	31.23	0.00	0.00	0.00	5.83	4.94	0.00	4.94	0.00	1.73	0.13	0.00	1.86	0.00	16.92	0.00	0.	0.00	
383	14.200	31.27	0.00	0.00	0.00	5.89	5.06	0.00	5.06	0.00	1.80	0.14	0.00	1.94	0.00	18.08	0.00	0.	0.00	
384	14.100	31.31	0.00	0.00	0.00	5.96	5.16	0.00	5.16	0.00	1.86	0.14	0.00	2.01	0.00	19.23	0.00	0.	0.00	
385	14.000	31.35	0.00	0.00	0.00	6.04	5.24	0.00	5.24	0.00	1.92	0.15	0.00	2.06	0.00	20.38	0.00	0.	0.00	
386	13.900	31.38	0.00	0.00	0.00	6.13	5.31	0.00	5.31	0.00	1.96	0.15	0.00	2.11	0.00	21.54	0.00	0.	0.00	
387	13.800	31.42	0.00	0.00	0.00	6.22	5.36	0.00	5.36	0.00	2.00	0.16	0.00	2.15	0.00	22.69	0.00	0.	0.00	
388	13.700	31.46	0.00	0.00	0.00	6.32	5.41	0.00	5.41	0.00	2.03	0.16	0.00	2.19	0.00	23.85	0.00	0.	0.00	
389	13.600	31.50	0.00	0.00	0.00	6.41	5.45	0.00	5.45	0.00	2.06	0.16	0.00	2.22	0.00	25.00	0.00	0.	0.00	

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 10 L. P. W. Side to L. P W. Outlet Calibration Simulation for Lake Penchant and Bayou Penchant mode

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

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

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NO.                 deg C    ppt                mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  #/100mL
 390 UPR RCH  3.63867  31.50    0.00    0.00    0.00  6.41  5.45  0.00  5.45  0.00  2.06  0.16  0.00  0.00 25.00    0.00    0.00
EACH  INCR    0.05556  31.13    0.00    0.00    0.00  5.00 10.00  0.00             1.30  0.10  0.04  0.00    0.00    0.00
EACH  INCR   -0.05556
*************************************************** HYDRAULIC PARAMETER VALUES ***************************************************
ELEM  BEGIN ENDING     FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE X-SECT   TIDAL  TIDAL  DISPRSN   MEAN
 NO.  DIST  DIST        EFF   VELO    TIME                        AREA   AREA    PRISM   VELO          VELO
      km    km       m³/s        m/s   days     m      m      m³      m²     m²      m³    m/s    m²/s    m/s
 390  13.60  13.50  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 391  13.50  13.40  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 392  13.40  13.30  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 393  13.30  13.20  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 394  13.20  13.10  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 395  13.10  13.00  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 396  13.00  12.90  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 397  12.90  12.80  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 398  12.80  12.70  3.63867  0.0  0.01391    0.08   1.77  148.00  26166.40  14800.00  261.66    0.00  0.000    0.000  0.014
 TOT                                 0.75            235497.62  133200.00
 AVG                          0.0139          1.77  148.00                261.66
 CUM                                79.36
************************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **************************************************
ELEM  ENDING  SAT   REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR  ORGN ORGN   NH3  NH3 DENIT  PO4  ALG  MAC  COLI   NCM   NCM
NO.   DIST  D.O.   RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY SRCE  RATE SRCE  PROD  PROD  DECAY  DECAY  SETT
          mg/L   1/da  1/da  1/da  1/da  1/da  1/da  1/da   *     *     *    1/da  1/da  1/da   *    1/da   *    **    **   1/da  1/da  1/da
 390  13.500  7.37   0.49  0.08  0.00  0.00  0.00  0.00  0.00  5.78  5.78  5.78  0.03  0.00  0.36  0.00  0.00  0.00  2.24  0.00  0.00  0.00  0.00
 391  13.400  7.37   0.49  0.08  0.00  0.00  0.00  0.00  0.00  5.78  5.78  5.78  0.03  0.00  0.36  0.00  0.00  0.00  2.36  0.00  0.00  0.00  0.00
 392  13.300  7.37   0.49  0.08  0.00  0.00  0.00  0.00  0.00  5.78  5.78  5.78  0.03  0.00  0.36  0.00  0.00  0.00  2.49  0.00  0.00  0.00  0.00
 393  13.200  7.37   0.49  0.08  0.00  0.00  0.00  0.00  0.00  5.78  5.78  5.78  0.03  0.00  0.36  0.00  0.00  0.00  2.61  0.00  0.00  0.00  0.00
 394  13.100  7.37   0.49  0.08  0.00  0.00  0.00  0.00  0.00  5.78  5.78  5.78  0.03  0.00  0.36  0.00  0.00  0.00  2.73  0.00  0.00  0.00  0.00
 395  13.000  7.37   0.49  0.08  0.00  0.00  0.00  0.00  0.00  5.78  5.78  5.78  0.03  0.00  0.35  0.00  0.00  0.00  2.85  0.00  0.00  0.00  0.00
 396  12.900  7.37   0.49  0.08  0.00  0.00  0.00  0.00  0.00  5.78  5.78  5.78  0.03  0.00  0.35  0.00  0.00  0.00  2.98  0.00  0.00  0.00  0.00
 397  12.800  7.37   0.49  0.08  0.00  0.00  0.00  0.00  0.00  5.78  5.78  5.78  0.03  0.00  0.35  0.00  0.00  0.00  3.10  0.00  0.00  0.00  0.00
 398  12.700  7.37   0.49  0.08  0.00  0.00  0.00  0.00  0.00  5.78  5.78  5.78  0.03  0.00  0.35  0.00  0.00  0.00  3.22  0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.40   0.05  0.00  0.00  0.00  0.00  0.00  2.80            0.02  0.00  0.15  0.00  0.00  0.00             0.00  0.00  0.00
*  g/m²/d          **   mg/L/day
************************************************** WATER QUALITY CONSTITUENT VALUES **************************************************
ELEM  ENDING  TEMP  SALN    CM-I   CM-II   DO   BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN   NH3  NO3+2   TOTN   PHOS  CHL A  MACRO    COLI    NCM
NO.   DIST  DEG C  PPT                mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L   g/m³  #/100mL
 390  13.500  31.50  0.00    0.00    0.00  6.29  5.48  0.00  5.48  0.00  2.04  0.16  0.00  2.20  0.00 26.44   0.00      0.   0.00
 391  13.400  31.50  0.00    0.00    0.00  6.19  5.51  0.00  5.51  0.00  2.03  0.16  0.00  2.19  0.00 27.89   0.00      0.   0.00
 392  13.300  31.50  0.00    0.00    0.00  6.10  5.54  0.00  5.54  0.00  2.01  0.16  0.00  2.17  0.00 29.33   0.00      0.   0.00
 393  13.200  31.50  0.00    0.00    0.00  6.02  5.57  0.00  5.57  0.00  2.00  0.16  0.00  2.15  0.00 30.78   0.00      0.   0.00
 394  13.100  31.50  0.00    0.00    0.00  5.96  5.59  0.00  5.59  0.00  1.98  0.15  0.00  2.14  0.00 32.22   0.00      0.   0.00
 395  13.000  31.50  0.00    0.00    0.00  5.91  5.62  0.00  5.62  0.00  1.97  0.15  0.00  2.12  0.00 33.67   0.00      0.   0.00
 396  12.900  31.50  0.00    0.00    0.00  5.88  5.65  0.00  5.65  0.00  1.96  0.15  0.00  2.11  0.00 35.11   0.00      0.   0.00
 397  12.800  31.50  0.00    0.00    0.00  5.85  5.67  0.00  5.67  0.00  1.94  0.15  0.00  2.09  0.00 36.56   0.00      0.   0.00
 398  12.700  31.50  0.00    0.00    0.00  5.84  5.70  0.00  5.70  0.00  1.93  0.15  0.00  2.08  0.00 38.00   0.00      0.   0.00
FINAL REPORT    Station 935                          LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 11    L. P W. Outlet to Superior Cana            Calibration Simulation for Lake Penchant and Bayou Penchant mode
************************************************************** REACH INPUTS **************************************************************
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ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS	CHL A #/100mL	COLI	NCM
399	UPR RCH	3.63867	31.50	0.00	0.00	0.00	5.84	5.70	0.00	5.70	0.00	1.93	0.15	0.00	0.00	38.00	0.00	0.00
EACH	INCR	0.02632	31.13	0.00	0.00	0.00	5.00	10.00	0.00			1.30	0.10	0.04	0.00	0.00	0.00	
EACH	INCR	-0.02632																

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
399	12.70	12.60	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
400	12.60	12.50	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
401	12.50	12.40	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
402	12.40	12.30	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
403	12.30	12.20	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
404	12.20	12.10	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
405	12.10	12.00	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
406	12.00	11.90	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
407	11.90	11.80	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
408	11.80	11.70	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
409	11.70	11.60	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
410	11.60	11.50	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
411	11.50	11.40	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
412	11.40	11.30	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
413	11.30	11.20	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
414	11.20	11.10	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
415	11.10	11.00	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
416	11.00	10.90	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
417	10.90	10.80	3.63867	0.0	0.03374		0.03	1.77	61.00	10784.80	6100.00	107.85	0.00	0.000	0.300 0.034
TOT					0.65				204911.17	115900.00					
AVG				0.0337		1.77	61.00				107.85				
CUM					80.01										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	DECAY 1/da	SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SOD *	BKGD SOD *	FULL SOD *	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY 1/da	NH3 SRCE *	NH3 RATE 1/da	DENIT SRCE *	PO4 PROD **	ALG PROD **	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
399	12.600	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
400	12.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
401	12.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
402	12.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
403	12.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
404	12.100	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
405	12.000	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
406	11.900	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
407	11.800	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
408	11.700	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
409	11.600	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
410	11.500	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
411	11.400	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
412	11.300	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
413	11.200	7.37	0.49	0.08	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.03	0.00	0.35	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	

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414  11.100 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
415  11.000 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
416  10.900 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
417  10.800 7.37   0.49  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.40  0.05 0.00  0.00  0.00 0.00  0.00 2.80          0.02 0.00  0.15 0.00  0.00 0.00          0.00  0.00  0.00
*  g/m²/d        **  mg/L/day
************************************************** WATER QUALITY CONSTITUENT VALUES **************************************************
ELEM  ENDING  TEMP  SALN    CM-I   CM-II   DO  BOD#1  BOD#2 EBOD#1 EBOD#2  ORGN   NH3  NO3+2  TOTN  PHOS  CHL A  MACRO    COLI    NCM
NO.   DIST  DEG C  PPT              mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  g/m³  #/100mL
399  12.600 31.50 0.00    0.00    0.00  5.83  5.71  0.00  5.71  0.00  1.92  0.15  0.00  2.07  0.00 38.00  0.00     0.  0.00
400  12.500 31.50 0.00    0.00    0.00  5.82  5.73  0.00  5.73  0.00  1.91  0.15  0.00  2.06  0.00 38.00  0.00     0.  0.00
401  12.400 31.50 0.00    0.00    0.00  5.82  5.74  0.00  5.74  0.00  1.91  0.15  0.00  2.06  0.00 38.00  0.00     0.  0.00
402  12.300 31.50 0.00    0.00    0.00  5.81  5.76  0.00  5.76  0.00  1.90  0.15  0.00  2.05  0.00 38.00  0.00     0.  0.00
403  12.200 31.50 0.00    0.00    0.00  5.81  5.77  0.00  5.77  0.00  1.90  0.15  0.00  2.04  0.00 38.00  0.00     0.  0.00
404  12.100 31.50 0.00    0.00    0.00  5.80  5.78  0.00  5.78  0.00  1.89  0.15  0.00  2.04  0.00 38.00  0.00     0.  0.00
405  12.000 31.50 0.00    0.00    0.00  5.80  5.80  0.00  5.80  0.00  1.89  0.15  0.00  2.03  0.00 38.00  0.00     0.  0.00
406  11.900 31.50 0.00    0.00    0.00  5.79  5.81  0.00  5.81  0.00  1.88  0.15  0.00  2.03  0.00 38.00  0.00     0.  0.00
407  11.800 31.50 0.00    0.00    0.00  5.79  5.82  0.00  5.82  0.00  1.87  0.15  0.00  2.02  0.00 38.00  0.00     0.  0.00
408  11.700 31.50 0.00    0.00    0.00  5.78  5.84  0.00  5.84  0.00  1.87  0.15  0.00  2.01  0.00 38.00  0.00     0.  0.00
409  11.600 31.50 0.00    0.00    0.00  5.77  5.85  0.00  5.85  0.00  1.86  0.14  0.00  2.01  0.00 38.00  0.00     0.  0.00
410  11.500 31.50 0.00    0.00    0.00  5.77  5.86  0.00  5.86  0.00  1.86  0.14  0.00  2.00  0.00 38.00  0.00     0.  0.00
411  11.400 31.50 0.00    0.00    0.00  5.77  5.88  0.00  5.88  0.00  1.85  0.14  0.00  1.99  0.00 38.00  0.00     0.  0.00
412  11.300 31.50 0.00    0.00    0.00  5.76  5.89  0.00  5.89  0.00  1.85  0.14  0.00  1.99  0.00 38.00  0.00     0.  0.00
413  11.200 31.50 0.00    0.00    0.00  5.76  5.90  0.00  5.90  0.00  1.84  0.14  0.00  1.98  0.00 38.00  0.00     0.  0.00
414  11.100 31.50 0.00    0.00    0.00  5.75  5.91  0.00  5.91  0.00  1.83  0.14  0.00  1.98  0.00 38.00  0.00     0.  0.00
415  11.000 31.50 0.00    0.00    0.00  5.75  5.93  0.00  5.93  0.00  1.83  0.14  0.00  1.97  0.00 38.00  0.00     0.  0.00
416  10.900 31.50 0.00    0.00    0.00  5.74  5.94  0.00  5.94  0.00  1.82  0.14  0.00  1.97  0.00 38.00  0.00     0.  0.00
417  10.800 31.50 0.00    0.00    0.00  5.74  5.95  0.00  5.95  0.00  1.82  0.14  0.00  1.96  0.00 38.00  0.00     0.  0.00
FINAL REPORT    Station 935                    LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 12    Superior Canal to un canal 1          Calibration Simulation for Lake Penchant and Bayou Penchant mode
************************************************************** REACH INPUTS **************************************************************
ELEM  TYPE      FLOW    TEMP    SALN    CM-I   CM-II   DO  BOD#1  BOD#2 EBOD#1 EBOD#2  ORGN   NH3  NO3+2  PHOS  CHL A    COLI    NCM
NO.             deg C   ppt             mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  #/100mL
418  UPR RCH  3.63867  31.50    0.00    0.00    0.00  5.74  5.95  0.00  5.95  0.00  1.82  0.14  0.00  0.00 38.00    0.00    0.00
EACH  INCR    0.03846  31.13    0.00    0.00    0.00  5.00 10.00  0.00          1.30  0.10  0.04  0.00    0.00    0.00
EACH  INCR    -0.03846
************************************************** HYDRAULIC PARAMETER VALUES **************************************************
ELEM  BEGIN  ENDING    FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE  X-SECT    TIDAL   TIDAL  DISPRSN   MEAN
NO.   DIST   DIST      EFF   VELO    TIME                         AREA   AREA    PRISM   VELO           VELO
      km     km      m³/s     m/s   days     m      m      m³      m²     m²      m³     m/s    m²/s    m/s
418  10.80  10.70  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
419  10.70  10.60  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
420  10.60  10.50  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
421  10.50  10.40  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
422  10.40  10.30  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
423  10.30  10.20  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
424  10.20  10.10  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
425  10.10  10.00  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
426  10.00   9.90  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
427   9.90   9.80  3.63867  0.0  0.03605   0.03   1.40  72.00  10094.40  7200.00  100.94   0.00  0.000   0.200  0.036
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 428   9.80   9.70   3.63867  0.0  0.03605    0.03   1.40  72.00  10094.40   7200.00  100.94     0.00  0.000    0.200  0.036
 429   9.70   9.60   3.63867  0.0  0.03605    0.03   1.40  72.00  10094.40   7200.00  100.94     0.00  0.000    0.200  0.036
 430   9.60   9.50   3.63867  0.0  0.03605    0.03   1.40  72.00  10094.40   7200.00  100.94     0.00  0.000    0.200  0.036
 TOT                                  0.42            131227.19   93600.00
 AVG                          0.0360          1.40  72.00                 100.94
 CUM                                  80.43
********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************
ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN ORGN   NH3  NH3 DENIT  PO4  ALG  MAC  COLI   NCM   NCM
NO.    DIST  D.O.   RATE  DECAY SETT DECAY DECAY SETT DECAY  SOD  SOD  SOD DECAY SETT DECAY SRCE  RATE SRCE PROD PROD DECAY DECAY  SETT
          mg/L   1/da  1/da  1/da  1/da  1/da  1/da  1/da   *    *    *   1/da 1/da  1/da   *   1/da   *   **   **   1/da  1/da  1/da
418  10.700 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
419  10.600 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
420  10.500 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
421  10.400 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
422  10.300 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
423  10.200 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
424  10.100 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
425  10.000 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
426   9.900 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
427   9.800 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
428   9.700 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
429   9.600 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
430   9.500 7.37   0.62  0.08 0.00  0.00  0.00 0.00  0.00 5.78 5.78 5.78  0.03 0.00  0.35 0.00  0.00 0.00 3.22 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.50  0.05 0.00  0.00  0.00 0.00  0.00 2.80            0.02 0.00  0.15 0.00  0.00 0.00            0.00  0.00  0.00
*  g/m²/d          **   mg/L/day
********************************************** WATER QUALITY CONSTITUENT VALUES **********************************************
ELEM  ENDING  TEMP  SALN    CM-I   CM-II   DO  BOD#1  BOD#2 EBOD#1 EBOD#2  ORGN   NH3  NO3+2  TOTN  PHOS  CHL A  MACRO    COLI    NCM
NO.    DIST  DEG C  PPT                mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L   g/m³  #/100mL
418  10.700 31.50 0.00    0.00    0.00  5.71  5.98  0.00  5.98  0.00  1.81  0.14  0.00  1.95  0.00 38.00   0.00     0.   0.00
419  10.600 31.50 0.00    0.00    0.00  5.68  6.00  0.00  6.00  0.00  1.80  0.14  0.00  1.95  0.00 38.00   0.00     0.   0.00
420  10.500 31.50 0.00    0.00    0.00  5.66  6.03  0.00  6.03  0.00  1.80  0.14  0.00  1.94  0.00 38.00   0.00     0.   0.00
421  10.400 31.50 0.00    0.00    0.00  5.63  6.05  0.00  6.05  0.00  1.79  0.14  0.00  1.93  0.00 38.00   0.00     0.   0.00
422  10.300 31.50 0.00    0.00    0.00  5.61  6.08  0.00  6.08  0.00  1.79  0.14  0.00  1.92  0.00 38.00   0.00     0.   0.00
423  10.200 31.50 0.00    0.00    0.00  5.59  6.10  0.00  6.10  0.00  1.78  0.14  0.00  1.92  0.00 38.00   0.00     0.   0.00
424  10.100 31.50 0.00    0.00    0.00  5.57  6.13  0.00  6.13  0.00  1.77  0.14  0.00  1.91  0.00 38.00   0.00     0.   0.00
425  10.000 31.50 0.00    0.00    0.00  5.54  6.15  0.00  6.15  0.00  1.77  0.14  0.00  1.90  0.00 38.00   0.00     0.   0.00
426   9.900 31.50 0.00    0.00    0.00  5.52  6.17  0.00  6.17  0.00  1.76  0.14  0.00  1.90  0.00 38.00   0.00     0.   0.00
427   9.800 31.50 0.00    0.00    0.00  5.50  6.20  0.00  6.20  0.00  1.75  0.14  0.00  1.89  0.00 38.00   0.00     0.   0.00
428   9.700 31.50 0.00    0.00    0.00  5.48  6.22  0.00  6.22  0.00  1.75  0.14  0.00  1.88  0.00 38.00   0.00     0.   0.00
429   9.600 31.50 0.00    0.00    0.00  5.46  6.25  0.00  6.25  0.00  1.74  0.13  0.00  1.88  0.00 38.00   0.00     0.   0.00
430   9.500 31.50 0.00    0.00    0.00  5.41  6.33  0.00  6.33  0.00  1.78  0.13  0.00  1.91  0.00 38.00   0.00     0.   0.00
FINAL REPORT    Station 935                    LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 13    unnamed canal to Brady C/Weir 2          Calibration Simulation for Lake Penchant and Bayou Penchant mode
********************************************************** REACH INPUTS **********************************************************
ELEM  TYPE       FLOW    TEMP    SALN    CM-I   CM-II    DO  BOD#1  BOD#2 EBOD#1 EBOD#2  ORGN   NH3  NO3+2  PHOS  CHL A    COLI    NCM
NO.              deg C    ppt                mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  #/100mL
431  UPR RCH  3.63867  31.50    0.00    0.00    0.00  5.41  6.33  0.00  6.33  0.00  1.78  0.13  0.00  0.00 38.00    0.00    0.00
431  WSTLD    3.02992  31.50    0.00    0.00    0.00  3.70 10.00  0.00 10.00  0.00  4.00  0.05  0.00  0.00  0.00    0.00    0.00
********************************************************** HYDRAULIC PARAMETER VALUES **********************************************
ELEM  BEGIN  ENDING     FLOW  PCT  ADVCTV   TRAVEL   DEPTH   WIDTH   VOLUME   SURFACE  X-SECT    TIDAL   TIDAL   DISPRSN    MEAN
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 NO.   DIST   DIST          EFF    VELO     TIME                        AREA   AREA    PRISM   VELO          VELO
       km     km      m³/s         m/s    days     m      m      m³       m²     m²      m³     m/s    m²/s    m/s
 431   9.50   9.40   6.66859  45.4  0.06606    0.02   1.40   72.00  10094.40   7200.00  100.94    0.00  0.000    0.100  0.066
 432   9.40   9.30   6.66859  45.4  0.06606    0.02   1.40   72.00  10094.40   7200.00  100.94    0.00  0.000    0.100  0.066
 TOT                                  0.04              20188.80   14400.00
 AVG                          0.0661          1.40   72.00                 100.94
 CUM                                 80.47
********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************
ELEM  ENDING  SAT   REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN   NH3   NH3  DENIT   PO4   ALG   MAC   COLI   NCM   NCM
NO.    DIST  D.O.   RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
          mg/L   1/da  1/da  1/da  1/da  1/da  1/da  1/da   *    *    *   1/da  1/da  1/da    *   1/da    *    **    **   1/da  1/da  1/da
431   9.400  7.37   0.75   0.08  0.00  0.00  0.00  0.00  0.00  3.09  3.09  3.09  0.03  0.00  0.34  0.00  0.00  0.00  3.22  0.00  0.00  0.00  0.00
432   9.300  7.37   0.75   0.08  0.00  0.00  0.00  0.00  0.00  3.09  3.09  3.09  0.03  0.00  0.34  0.00  0.00  0.00  3.22  0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.61   0.05  0.00  0.00  0.00  0.00  0.00  1.50              0.02  0.00  0.15  0.00  0.00  0.00              0.00  0.00  0.00
*  g/m²/d          **   mg/L/day
********************************************** WATER QUALITY CONSTITUENT VALUES **********************************************
ELEM  ENDING  TEMP  SALN    CM-I   CM-II   DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN   NH3  NO3+2   TOTN   PHOS  CHL A  MACRO    COLI    NCM
NO.    DIST  DEG C  PPT                mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L   g/m³  #/100mL
431   9.400  31.50  0.00    0.00    0.00  4.69   7.95   0.00   7.95   0.00   2.76   0.10   0.00   2.86   0.00  38.00   0.00      0.   0.00
432   9.300  31.50  0.00    0.00    0.00  4.73   7.94   0.00   7.94   0.00   2.76   0.10   0.00   2.86   0.00  38.00   0.00      0.   0.00
FINAL REPORT    Station 935                          LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 14    Brady C/Weir 2 to Km#                     Calibration Simulation for Lake Penchant and Bayou Penchant mode
********************************************************** REACH INPUTS **********************************************************
ELEM  TYPE      FLOW    TEMP    SALN    CM-I   CM-II    DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN   NH3  NO3+2   PHOS  CHL A    COLI    NCM
NO.                deg C    ppt                mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL
 433  UPR RCH   6.66859  31.50    0.00    0.00    0.00  4.73   7.94   0.00   7.94   0.00   2.76   0.10   0.00   0.00  38.00    0.00    0.00
EACH  INCR     0.00212  31.13    0.00    0.00    0.00  5.00  10.00   0.00              0.85   0.10   0.04   0.00    0.00    0.00
 433  WSTLD   -3.19980  31.57    0.00    0.00    0.00  4.76   7.93   0.00   7.93   0.00   2.76   0.10   0.00   0.00  38.00    0.00    0.00
****************************************************** HYDRAULIC PARAMETER VALUES ******************************************************
ELEM  BEGIN  ENDING     FLOW   PCT  ADVCTV   TRAVEL   DEPTH   WIDTH   VOLUME   SURFACE  X-SECT    TIDAL   TIDAL   DISPRSN    MEAN
 NO.   DIST   DIST          EFF    VELO     TIME                        AREA   AREA    PRISM   VELO          VELO
       km     km      m³/s         m/s    days     m      m      m³       m²     m²      m³     m/s    m²/s    m/s
 433   9.30   9.20   3.47091  45.4  0.03537    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 434   9.20   9.10   3.47304  45.4  0.03539    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 435   9.10   9.00   3.47516  45.4  0.03541    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 436   9.00   8.90   3.47729  45.3  0.03543    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 437   8.90   8.80   3.47941  45.3  0.03545    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 438   8.80   8.70   3.48154  45.3  0.03548    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 439   8.70   8.60   3.48366  45.3  0.03550    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.035
 440   8.60   8.50   3.48579  45.2  0.03552    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.036
 441   8.50   8.40   3.48791  45.2  0.03554    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.036
 442   8.40   8.30   3.49004  45.2  0.03556    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.036
 443   8.30   8.20   3.49216  45.1  0.03558    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.036
 444   8.20   8.10   3.49429  45.1  0.03561    0.03   1.40   70.00   9814.00   7000.00   98.14    0.00  0.000    0.100  0.036
 TOT                                  0.39            117768.00   84000.00
 AVG                          0.0355          1.40   70.00                  98.14
 CUM                                 80.86
********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************
ELEM  ENDING  SAT   REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN   NH3   NH3  DENIT   PO4   ALG   MAC   COLI   NCM   NCM
NO.    DIST  D.O.   RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
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          mg/L   1/da  1/da  1/da  1/da  1/da  1/da  1/da   *    *    *   1/da  1/da  1/da   *   1/da   *   **   **   1/da  1/da  1/da
433   9.200 7.36   0.62  0.09 0.00  0.00  0.00 0.00  0.00 0.00 3.11 3.11 3.11  0.03 0.00  0.34 0.00  0.00 0.00 3.23 0.00  0.00  0.00  0.00
434   9.100 7.35   0.62  0.09 0.00  0.00  0.00 0.00  0.00 0.00 3.12 3.12 3.12  0.03 0.00  0.34 0.00  0.00 0.00 3.24 0.00  0.00  0.00  0.00
435   9.000 7.34   0.62  0.09 0.00  0.00  0.00 0.00  0.00 0.00 3.13 3.13 3.13  0.03 0.00  0.35 0.00  0.00 0.00 3.25 0.00  0.00  0.00  0.00
436   8.900 7.33   0.62  0.09 0.00  0.00  0.00 0.00  0.00 0.00 3.15 3.15 3.15  0.03 0.00  0.35 0.00  0.00 0.00 3.26 0.00  0.00  0.00  0.00
437   8.800 7.33   0.62  0.09 0.00  0.00  0.00 0.00  0.00 0.00 3.16 3.16 3.16  0.03 0.00  0.35 0.00  0.00 0.00 3.27 0.00  0.00  0.00  0.00
438   8.700 7.32   0.62  0.09 0.00  0.00  0.00 0.00  0.00 0.00 3.17 3.17 3.17  0.03 0.00  0.35 0.00  0.00 0.00 3.28 0.00  0.00  0.00  0.00
439   8.600 7.31   0.62  0.09 0.00  0.00  0.00 0.00  0.00 0.00 3.19 3.19 3.19  0.03 0.00  0.36 0.00  0.00 0.00 3.29 0.00  0.00  0.00  0.00
440   8.500 7.30   0.62  0.09 0.00  0.00  0.00 0.00  0.00 0.00 3.20 3.20 3.20  0.03 0.00  0.36 0.00  0.00 0.00 3.30 0.00  0.00  0.00  0.00
441   8.400 7.29   0.62  0.09 0.00  0.00  0.00 0.00  0.00 0.00 3.21 3.21 3.21  0.03 0.00  0.36 0.00  0.00 0.00 3.31 0.00  0.00  0.00  0.00
442   8.300 7.28   0.62  0.09 0.00  0.00  0.00 0.00  0.00 0.00 3.23 3.23 3.23  0.03 0.00  0.37 0.00  0.00 0.00 3.32 0.00  0.00  0.00  0.00
443   8.200 7.28   0.62  0.09 0.00  0.00  0.00 0.00  0.00 0.00 3.24 3.24 3.24  0.03 0.00  0.37 0.00  0.00 0.00 3.33 0.00  0.00  0.00  0.00
444   8.100 7.27   0.62  0.09 0.00  0.00  0.00 0.00  0.00 0.00 3.25 3.25 3.25  0.03 0.00  0.37 0.00  0.00 0.00 3.34 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.50  0.05 0.00  0.00  0.00 0.00  0.00 1.50            0.02 0.00  0.15 0.00  0.00 0.00            0.00  0.00  0.00
*  g/m²/d          **   mg/L/day
************************************************** WATER QUALITY CONSTITUENT VALUES **************************************************
ELEM  ENDING  TEMP  SALN    CM-I   CM-II   DO  BOD#1  BOD#2 EBOD#1 EBOD#2  ORGN   NH3  NO3+2  TOTN  PHOS  CHL A  MACRO    COLI    NCM
NO.   DIST  DEG C  PPT                mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  g/m³  #/100mL
433   9.200 31.57 0.00    0.00    0.00  4.76  7.93  0.00  7.93  0.00  2.76  0.10  0.00  2.86  0.00 38.00  0.00     0.  0.00
434   9.100 31.63 0.00    0.00    0.00  4.82  7.91  0.00  7.91  0.00  2.76  0.10  0.00  2.86  0.00 38.00  0.00     0.  0.00
435   9.000 31.70 0.00    0.00    0.00  4.87  7.88  0.00  7.88  0.00  2.75  0.10  0.00  2.85  0.00 38.00  0.00     0.  0.00
436   8.900 31.77 0.00    0.00    0.00  4.93  7.86  0.00  7.86  0.00  2.75  0.10  0.00  2.85  0.00 38.00  0.00     0.  0.00
437   8.800 31.83 0.00    0.00    0.00  4.98  7.84  0.00  7.84  0.00  2.75  0.10  0.00  2.85  0.00 38.00  0.00     0.  0.00
438   8.700 31.90 0.00    0.00    0.00  5.03  7.82  0.00  7.82  0.00  2.74  0.10  0.00  2.85  0.00 38.00  0.00     0.  0.00
439   8.600 31.97 0.00    0.00    0.00  5.09  7.80  0.00  7.80  0.00  2.74  0.10  0.00  2.84  0.00 38.00  0.00     0.  0.00
440   8.500 32.03 0.00    0.00    0.00  5.14  7.78  0.00  7.78  0.00  2.74  0.11  0.00  2.84  0.00 38.00  0.00     0.  0.00
441   8.400 32.10 0.00    0.00    0.00  5.18  7.76  0.00  7.76  0.00  2.73  0.11  0.00  2.84  0.00 38.00  0.00     0.  0.00
442   8.300 32.17 0.00    0.00    0.00  5.23  7.74  0.00  7.74  0.00  2.73  0.11  0.00  2.84  0.00 38.00  0.00     0.  0.00
443   8.200 32.23 0.00    0.00    0.00  5.28  7.72  0.00  7.72  0.00  2.73  0.11  0.00  2.83  0.00 38.00  0.00     0.  0.00
444   8.100 32.30 0.00    0.00    0.00  5.32  7.70  0.00  7.70  0.00  2.72  0.11  0.00  2.83  0.00 38.00  0.00     0.  0.00
FINAL REPORT    Station 935                          LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 15    Km# to Pipeline Canal                  Calibration Simulation for Lake Penchant and Bayou Penchant mode
************************************************************** REACH INPUTS **************************************************************
ELEM  TYPE      FLOW    TEMP    SALN    CM-I   CM-II    DO  BOD#1  BOD#2 EBOD#1 EBOD#2  ORGN   NH3  NO3+2  PHOS  CHL A    COLI    NCM
NO.             deg C    ppt                mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  #/100mL
445  UPR RCH  3.49429  32.30    0.00    0.00    0.00  5.32  7.70  0.00  7.70  0.00  2.72  0.11  0.00  0.00 38.00    0.00    0.00
EACH  INCR    0.00279  31.13    0.00    0.00    0.00  5.00 10.00  0.00             0.85  0.10  0.04  0.00    0.00    0.00
************************************************** HYDRAULIC PARAMETER VALUES **************************************************
ELEM  BEGIN  ENDING     FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE  X-SECT    TIDAL  TIDAL  DISPRSN   MEAN
NO.   DIST   DIST       EFF   VELO    TIME                     AREA   AREA    PRISM   VELO          VELO
      km     km      m³/s        m/s    days     m     m     m³      m²     m²      m³    m/s    m²/s   m/s
445   8.10   8.00   3.49708  45.1  0.03837    0.03  1.40  65.00  9113.00  6500.00  91.13    0.00  0.000    0.100  0.038
446   8.00   7.90   3.49988  45.0  0.03841    0.03  1.40  65.00  9113.00  6500.00  91.13    0.00  0.000    0.100  0.038
447   7.90   7.80   3.50267  45.0  0.03844    0.03  1.40  65.00  9113.00  6500.00  91.13    0.00  0.000    0.100  0.038
448   7.80   7.70   3.50546  45.0  0.03847    0.03  1.40  65.00  9113.00  6500.00  91.13    0.00  0.000    0.100  0.038
449   7.70   7.60   3.50825  44.9  0.03850    0.03  1.40  65.00  9113.00  6500.00  91.13    0.00  0.000    0.100  0.038
450   7.60   7.50   3.51105  44.9  0.03853    0.03  1.40  65.00  9113.00  6500.00  91.13    0.00  0.000    0.100  0.039
451   7.50   7.40   3.51384  44.9  0.03856    0.03  1.40  65.00  9113.00  6500.00  91.13    0.00  0.000    0.100  0.039
452   7.40   7.30   3.51663  44.8  0.03859    0.03  1.40  65.00  9113.00  6500.00  91.13    0.00  0.000    0.100  0.039
453   7.30   7.20   3.51943  44.8  0.03862    0.03  1.40  65.00  9113.00  6500.00  91.13    0.00  0.000    0.100  0.039
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454	7.20	7.10	3.52222	44.8	0.03865	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
455	7.10	7.00	3.52501	44.7	0.03868	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
456	7.00	6.90	3.52781	44.7	0.03871	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
457	6.90	6.80	3.53060	44.7	0.03874	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
458	6.80	6.70	3.53339	44.6	0.03877	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
459	6.70	6.60	3.53619	44.6	0.03880	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
460	6.60	6.50	3.53898	44.5	0.03883	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
461	6.50	6.40	3.54177	44.5	0.03887	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
462	6.40	6.30	3.54456	44.5	0.03890	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
463	6.30	6.20	3.54736	44.4	0.03893	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
464	6.20	6.10	3.55015	44.4	0.03896	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
465	6.10	6.00	3.55294	44.4	0.03899	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
466	6.00	5.90	3.55574	44.3	0.03902	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
467	5.90	5.80	3.55853	44.3	0.03905	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
468	5.80	5.70	3.56132	44.3	0.03908	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
469	5.70	5.60	3.56412	44.2	0.03911	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
470	5.60	5.50	3.56691	44.2	0.03914	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
471	5.50	5.40	3.56970	44.2	0.03917	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
472	5.40	5.30	3.57250	44.1	0.03920	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
473	5.30	5.20	3.57529	44.1	0.03923	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
474	5.20	5.10	3.57808	44.1	0.03926	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
475	5.10	5.00	3.58087	44.0	0.03929	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
476	5.00	4.90	3.58367	44.0	0.03932	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
477	4.90	4.80	3.58646	44.0	0.03936	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
478	4.80	4.70	3.58925	43.9	0.03939	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
479	4.70	4.60	3.59205	43.9	0.03942	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
480	4.60	4.50	3.59484	43.9	0.03945	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
481	4.50	4.40	3.59763	43.8	0.03948	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.039
482	4.40	4.30	3.60043	43.8	0.03951	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
483	4.30	4.20	3.60322	43.8	0.03954	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
484	4.20	4.10	3.60601	43.7	0.03957	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
485	4.10	4.00	3.60881	43.7	0.03960	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
486	4.00	3.90	3.61160	43.7	0.03963	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
487	3.90	3.80	3.61439	43.6	0.03966	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
488	3.80	3.70	3.61718	43.6	0.03969	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
489	3.70	3.60	3.61998	43.6	0.03972	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
490	3.60	3.50	3.62277	43.5	0.03975	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
491	3.50	3.40	3.62556	43.5	0.03978	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
492	3.40	3.30	3.62836	43.5	0.03982	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
493	3.30	3.20	3.63115	43.4	0.03985	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
494	3.20	3.10	3.63394	43.4	0.03988	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
495	3.10	3.00	3.63674	43.4	0.03991	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
496	3.00	2.90	3.63953	43.3	0.03994	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
497	2.90	2.80	3.64232	43.3	0.03997	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
498	2.80	2.70	3.64512	43.3	0.04000	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
499	2.70	2.60	3.64791	43.2	0.04003	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
500	2.60	2.50	3.65070	43.2	0.04006	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
501	2.50	2.40	3.65349	43.2	0.04009	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
502	2.40	2.30	3.65629	43.1	0.04012	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
503	2.30	2.20	3.65908	43.1	0.04015	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040

504	2.20	2.10	3.66187	43.1	0.04018	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
505	2.10	2.00	3.66467	43.0	0.04021	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
506	2.00	1.90	3.66746	43.0	0.04024	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
507	1.90	1.80	3.67025	43.0	0.04027	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
508	1.80	1.70	3.67305	42.9	0.04031	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
509	1.70	1.60	3.67584	42.9	0.04034	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
510	1.60	1.50	3.67863	42.9	0.04037	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
511	1.50	1.40	3.68143	42.8	0.04040	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
512	1.40	1.30	3.68422	42.8	0.04043	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
513	1.30	1.20	3.68701	42.8	0.04046	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
514	1.20	1.10	3.68980	42.7	0.04049	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.040
515	1.10	1.00	3.69260	42.7	0.04052	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.041
516	1.00	0.90	3.69539	42.7	0.04055	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.041
517	0.90	0.80	3.69818	42.6	0.04058	0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100	0.041
TOT					2.14			665249.00	474500.00						
AVG				0.0395			1.40	65.00			91.13				
CUM					83.00										

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da		
445	8.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	
446	7.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00	
447	7.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00	
448	7.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.00	
449	7.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00	
450	7.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00	
451	7.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00	
452	7.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00	
453	7.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.37	0.00	0.00	0.00	3.26	0.00	0.00	0.00	0.00	
454	7.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.25	0.00	0.00	0.00	0.00	
455	7.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.24	0.00	0.00	0.00	0.00	
456	6.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.23	0.00	0.00	0.00	0.00	
457	6.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.22	0.00	0.00	0.00	0.00	
458	6.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00	
459	6.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00	
460	6.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	
461	6.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.00	
462	6.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.17	0.00	0.00	0.00	0.00	
463	6.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.16	0.00	0.00	0.00	0.00	
464	6.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00	
465	6.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00	
466	5.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.13	0.00	0.00	0.00	0.00	
467	5.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00	
468	5.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00	
469	5.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00	
470	5.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.09	0.00	0.00	0.00	0.00	
471	5.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00	
472	5.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00	
473	5.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00	

474	5.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00
475	5.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
476	4.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00
477	4.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00
478	4.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
479	4.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
480	4.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
481	4.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.99	0.00	0.00	0.00	0.00
482	4.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00
483	4.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00
484	4.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.96	0.00	0.00	0.00	0.00
485	4.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00
486	3.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00
487	3.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
488	3.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00
489	3.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.91	0.00	0.00	0.00	0.00
490	3.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
491	3.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
492	3.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.88	0.00	0.00	0.00	0.00
493	3.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.87	0.00	0.00	0.00	0.00
494	3.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
495	3.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00
496	2.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.84	0.00	0.00	0.00	0.00
497	2.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00
498	2.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00
499	2.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
500	2.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00
501	2.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
502	2.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.78	0.00	0.00	0.00	0.00
503	2.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.77	0.00	0.00	0.00	0.00
504	2.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.76	0.00	0.00	0.00	0.00
505	2.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
506	1.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.75	0.00	0.00	0.00	0.00
507	1.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
508	1.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00
509	1.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
510	1.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
511	1.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00
512	1.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.69	0.00	0.00	0.00	0.00
513	1.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.68	0.00	0.00	0.00	0.00
514	1.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.00
515	1.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.66	0.00	0.00	0.00	0.00
516	0.900	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
517	0.800	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.15	0.00	0.00	0.00		0.00	0.00	0.00	

* $g/m^2/d$ ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m^3	PHOS	CHL A	MACRO #/100mL	COLI	NCM
445	8.000	32.30	0.00	0.00	0.00	5.36	7.68	0.00	7.68	0.00	2.72	0.11	0.00	2.83	0.00	37.89	0.00	0.	0.00

446	7.900	32.30	0.00	0.00	0.00	5.40	7.66	0.00	7.66	0.00	2.72	0.11	0.00	2.83	0.00	37.78	0.00	0.	0.00
447	7.800	32.30	0.00	0.00	0.00	5.44	7.64	0.00	7.64	0.00	2.71	0.11	0.00	2.82	0.00	37.67	0.00	0.	0.00
448	7.700	32.30	0.00	0.00	0.00	5.48	7.62	0.00	7.62	0.00	2.71	0.11	0.00	2.82	0.00	37.56	0.00	0.	0.00
449	7.600	32.30	0.00	0.00	0.00	5.51	7.61	0.00	7.61	0.00	2.70	0.11	0.00	2.82	0.00	37.45	0.00	0.	0.00
450	7.500	32.30	0.00	0.00	0.00	5.55	7.59	0.00	7.59	0.00	2.70	0.11	0.00	2.82	0.00	37.34	0.00	0.	0.00
451	7.400	32.30	0.00	0.00	0.00	5.58	7.57	0.00	7.57	0.00	2.70	0.12	0.00	2.81	0.00	37.23	0.00	0.	0.00
452	7.300	32.30	0.00	0.00	0.00	5.62	7.55	0.00	7.55	0.00	2.69	0.12	0.00	2.81	0.00	37.12	0.00	0.	0.00
453	7.200	32.30	0.00	0.00	0.00	5.65	7.53	0.00	7.53	0.00	2.69	0.12	0.00	2.81	0.00	37.01	0.00	0.	0.00
454	7.100	32.30	0.00	0.00	0.00	5.68	7.52	0.00	7.52	0.00	2.69	0.12	0.00	2.80	0.00	36.90	0.00	0.	0.00
455	7.000	32.30	0.00	0.00	0.00	5.71	7.50	0.00	7.50	0.00	2.68	0.12	0.00	2.80	0.00	36.79	0.00	0.	0.00
456	6.900	32.30	0.00	0.00	0.00	5.74	7.48	0.00	7.48	0.00	2.68	0.12	0.00	2.80	0.00	36.68	0.00	0.	0.00
457	6.800	32.30	0.00	0.00	0.00	5.77	7.46	0.00	7.46	0.00	2.68	0.12	0.00	2.80	0.00	36.58	0.00	0.	0.00
458	6.700	32.30	0.00	0.00	0.00	5.80	7.45	0.00	7.45	0.00	2.67	0.12	0.00	2.79	0.00	36.47	0.00	0.	0.00
459	6.600	32.30	0.00	0.00	0.00	5.82	7.43	0.00	7.43	0.00	2.67	0.12	0.00	2.79	0.00	36.36	0.00	0.	0.00
460	6.500	32.30	0.00	0.00	0.00	5.85	7.41	0.00	7.41	0.00	2.67	0.12	0.00	2.79	0.00	36.25	0.00	0.	0.00
461	6.400	32.30	0.00	0.00	0.00	5.87	7.39	0.00	7.39	0.00	2.66	0.12	0.00	2.78	0.00	36.14	0.00	0.	0.00
462	6.300	32.30	0.00	0.00	0.00	5.90	7.38	0.00	7.38	0.00	2.66	0.12	0.00	2.78	0.00	36.03	0.00	0.	0.00
463	6.200	32.30	0.00	0.00	0.00	5.92	7.36	0.00	7.36	0.00	2.66	0.12	0.00	2.78	0.00	35.92	0.00	0.	0.00
464	6.100	32.30	0.00	0.00	0.00	5.95	7.34	0.00	7.34	0.00	2.65	0.12	0.00	2.78	0.00	35.81	0.00	0.	0.00
465	6.000	32.30	0.00	0.00	0.00	5.97	7.33	0.00	7.33	0.00	2.65	0.12	0.00	2.77	0.00	35.70	0.00	0.	0.00
466	5.900	32.30	0.00	0.00	0.00	5.99	7.31	0.00	7.31	0.00	2.65	0.13	0.00	2.77	0.00	35.59	0.00	0.	0.00
467	5.800	32.30	0.00	0.00	0.00	6.01	7.29	0.00	7.29	0.00	2.64	0.13	0.00	2.77	0.00	35.48	0.00	0.	0.00
468	5.700	32.30	0.00	0.00	0.00	6.03	7.27	0.00	7.27	0.00	2.64	0.13	0.00	2.76	0.00	35.37	0.00	0.	0.00
469	5.600	32.30	0.00	0.00	0.00	6.05	7.26	0.00	7.26	0.00	2.64	0.13	0.00	2.76	0.00	35.26	0.00	0.	0.00
470	5.500	32.30	0.00	0.00	0.00	6.07	7.24	0.00	7.24	0.00	2.63	0.13	0.00	2.76	0.00	35.15	0.00	0.	0.00
471	5.400	32.30	0.00	0.00	0.00	6.09	7.22	0.00	7.22	0.00	2.63	0.13	0.00	2.76	0.00	35.04	0.00	0.	0.00
472	5.300	32.30	0.00	0.00	0.00	6.11	7.21	0.00	7.21	0.00	2.62	0.13	0.00	2.75	0.00	34.93	0.00	0.	0.00
473	5.200	32.30	0.00	0.00	0.00	6.12	7.19	0.00	7.19	0.00	2.62	0.13	0.00	2.75	0.00	34.82	0.00	0.	0.00
474	5.100	32.30	0.00	0.00	0.00	6.14	7.18	0.00	7.18	0.00	2.62	0.13	0.00	2.75	0.00	34.71	0.00	0.	0.00
475	5.000	32.30	0.00	0.00	0.00	6.16	7.16	0.00	7.16	0.00	2.61	0.13	0.00	2.74	0.00	34.60	0.00	0.	0.00
476	4.900	32.30	0.00	0.00	0.00	6.17	7.14	0.00	7.14	0.00	2.61	0.13	0.00	2.74	0.00	34.49	0.00	0.	0.00
477	4.800	32.30	0.00	0.00	0.00	6.19	7.13	0.00	7.13	0.00	2.61	0.13	0.00	2.74	0.00	34.38	0.00	0.	0.00
478	4.700	32.30	0.00	0.00	0.00	6.20	7.11	0.00	7.11	0.00	2.60	0.13	0.00	2.74	0.00	34.27	0.00	0.	0.00
479	4.600	32.30	0.00	0.00	0.00	6.21	7.09	0.00	7.09	0.00	2.60	0.13	0.00	2.73	0.00	34.16	0.00	0.	0.00
480	4.500	32.30	0.00	0.00	0.00	6.23	7.08	0.00	7.08	0.00	2.60	0.13	0.00	2.73	0.00	34.05	0.00	0.	0.00
481	4.400	32.30	0.00	0.00	0.00	6.24	7.06	0.00	7.06	0.00	2.59	0.13	0.00	2.73	0.00	33.95	0.00	0.	0.00
482	4.300	32.30	0.00	0.00	0.00	6.25	7.05	0.00	7.05	0.00	2.59	0.13	0.00	2.72	0.00	33.84	0.00	0.	0.00
483	4.200	32.30	0.00	0.00	0.00	6.26	7.03	0.00	7.03	0.00	2.59	0.13	0.00	2.72	0.00	33.73	0.00	0.	0.00
484	4.100	32.30	0.00	0.00	0.00	6.28	7.01	0.00	7.01	0.00	2.59	0.13	0.00	2.72	0.00	33.62	0.00	0.	0.00
485	4.000	32.30	0.00	0.00	0.00	6.29	7.00	0.00	7.00	0.00	2.58	0.13	0.00	2.72	0.00	33.51	0.00	0.	0.00
486	3.900	32.30	0.00	0.00	0.00	6.30	6.98	0.00	6.98	0.00	2.58	0.13	0.00	2.71	0.00	33.40	0.00	0.	0.00
487	3.800	32.30	0.00	0.00	0.00	6.31	6.97	0.00	6.97	0.00	2.58	0.13	0.00	2.71	0.00	33.29	0.00	0.	0.00
488	3.700	32.30	0.00	0.00	0.00	6.32	6.95	0.00	6.95	0.00	2.57	0.14	0.00	2.71	0.00	33.18	0.00	0.	0.00
489	3.600	32.30	0.00	0.00	0.00	6.32	6.94	0.00	6.94	0.00	2.57	0.14	0.00	2.70	0.00	33.07	0.00	0.	0.00
490	3.500	32.30	0.00	0.00	0.00	6.33	6.92	0.00	6.92	0.00	2.57	0.14	0.00	2.70	0.00	32.96	0.00	0.	0.00
491	3.400	32.30	0.00	0.00	0.00	6.34	6.91	0.00	6.91	0.00	2.56	0.14	0.00	2.70	0.00	32.85	0.00	0.	0.00
492	3.300	32.30	0.00	0.00	0.00	6.35	6.89	0.00	6.89	0.00	2.56	0.14	0.00	2.70	0.00	32.74	0.00	0.	0.00
493	3.200	32.30	0.00	0.00	0.00	6.36	6.88	0.00	6.88	0.00	2.56	0.14	0.00	2.69	0.00	32.63	0.00	0.	0.00
494	3.100	32.30	0.00	0.00	0.00	6.36	6.86	0.00	6.86	0.00	2.55	0.14	0.00	2.69	0.00	32.52	0.00	0.	0.00
495	3.000	32.30	0.00	0.00	0.00	6.37	6.85	0.00	6.85	0.00	2.55	0.14	0.00	2.69	0.00	32.41	0.00	0.	0.00

496	2.900	32.30	0.00	0.00	0.00	6.38	6.83	0.00	6.83	0.00	2.55	0.14	0.00	2.68	0.00	32.30	0.00	0.	0.00
497	2.800	32.30	0.00	0.00	0.00	6.38	6.82	0.00	6.82	0.00	2.54	0.14	0.00	2.68	0.00	32.19	0.00	0.	0.00
498	2.700	32.30	0.00	0.00	0.00	6.39	6.80	0.00	6.80	0.00	2.54	0.14	0.00	2.68	0.00	32.08	0.00	0.	0.00
499	2.600	32.30	0.00	0.00	0.00	6.39	6.79	0.00	6.79	0.00	2.54	0.14	0.00	2.68	0.00	31.97	0.00	0.	0.00
500	2.500	32.30	0.00	0.00	0.00	6.40	6.77	0.00	6.77	0.00	2.53	0.14	0.00	2.67	0.00	31.86	0.00	0.	0.00
501	2.400	32.30	0.00	0.00	0.00	6.40	6.76	0.00	6.76	0.00	2.53	0.14	0.00	2.67	0.00	31.75	0.00	0.	0.00
502	2.300	32.30	0.00	0.00	0.00	6.40	6.74	0.00	6.74	0.00	2.53	0.14	0.00	2.67	0.00	31.64	0.00	0.	0.00
503	2.200	32.30	0.00	0.00	0.00	6.41	6.73	0.00	6.73	0.00	2.52	0.14	0.00	2.66	0.00	31.53	0.00	0.	0.00
504	2.100	32.30	0.00	0.00	0.00	6.41	6.71	0.00	6.71	0.00	2.52	0.14	0.00	2.66	0.00	31.42	0.00	0.	0.00
505	2.000	32.30	0.00	0.00	0.00	6.42	6.70	0.00	6.70	0.00	2.52	0.14	0.00	2.66	0.00	31.32	0.00	0.	0.00
506	1.900	32.30	0.00	0.00	0.00	6.42	6.68	0.00	6.68	0.00	2.51	0.14	0.00	2.66	0.00	31.21	0.00	0.	0.00
507	1.800	32.30	0.00	0.00	0.00	6.42	6.67	0.00	6.67	0.00	2.51	0.14	0.00	2.65	0.00	31.10	0.00	0.	0.00
508	1.700	32.30	0.00	0.00	0.00	6.42	6.66	0.00	6.66	0.00	2.51	0.14	0.00	2.65	0.00	30.99	0.00	0.	0.00
509	1.600	32.30	0.00	0.00	0.00	6.42	6.64	0.00	6.64	0.00	2.51	0.14	0.00	2.65	0.00	30.88	0.00	0.	0.00
510	1.500	32.30	0.00	0.00	0.00	6.43	6.63	0.00	6.63	0.00	2.50	0.14	0.00	2.64	0.00	30.77	0.00	0.	0.00
511	1.400	32.30	0.00	0.00	0.00	6.43	6.61	0.00	6.61	0.00	2.50	0.14	0.00	2.64	0.00	30.66	0.00	0.	0.00
512	1.300	32.30	0.00	0.00	0.00	6.43	6.60	0.00	6.60	0.00	2.50	0.14	0.00	2.64	0.00	30.55	0.00	0.	0.00
513	1.200	32.30	0.00	0.00	0.00	6.43	6.59	0.00	6.59	0.00	2.49	0.14	0.00	2.64	0.00	30.44	0.00	0.	0.00
514	1.100	32.30	0.00	0.00	0.00	6.43	6.57	0.00	6.57	0.00	2.49	0.14	0.00	2.63	0.00	30.33	0.00	0.	0.00
515	1.000	32.30	0.00	0.00	0.00	6.43	6.56	0.00	6.56	0.00	2.49	0.14	0.00	2.63	0.00	30.22	0.00	0.	0.00
516	0.900	32.30	0.00	0.00	0.00	6.43	6.54	0.00	6.54	0.00	2.48	0.14	0.00	2.63	0.00	30.11	0.00	0.	0.00
517	0.800	32.30	0.00	0.00	0.00	6.43	6.53	0.00	6.53	0.00	2.48	0.14	0.00	2.62	0.00	30.00	0.00	0.	0.00

FINAL REPORT Station 935 LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
REACH NO. 16 Pipeline Canal to Corasaw conf. Calibration Simulation for Lake Penchant and Bayou Penchant mode

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
518	UPR RCH	3.69818	32.30	0.00	0.00	0.00	6.43	6.53	0.00	6.53	0.00	2.48	0.14	0.00	0.00	30.00	0.00	0.00
EACH	INCR	0.00319	31.13	0.00	0.00	0.00	5.00	10.00	0.00			0.85	0.10	0.04	0.00	0.00	0.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
518	0.80	0.70	3.70137	42.6	0.04062		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
519	0.70	0.60	3.70456	42.6	0.04065		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
520	0.60	0.50	3.70775	42.5	0.04069		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
521	0.50	0.40	3.71093	42.5	0.04072		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
522	0.40	0.30	3.71412	42.4	0.04076		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
523	0.30	0.20	3.71731	42.4	0.04079		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
524	0.20	0.10	3.72050	42.4	0.04083		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
525	0.10	0.00	3.72368	42.3	0.04086		0.03	1.40	65.00	9113.00	6500.00	91.13	0.00	0.000	0.100 0.041
TOT					0.23			72904.00	52000.00						
AVG				0.0407			1.40	65.00		91.13					
CUM					83.23										

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	SOD *	SOD *	SOD *	BKGD DECAY 1/da	FULL SETT 1/da	CORR DECAY 1/da	ORGN SRCE *	ORGN RATE *	NH3 SRCE **	NH3 PROD **	NH3 PROD **	DENIT DECAY 1/da	PO4 DECAY 1/da	ALG SETT 1/da	MAC	COLI	NCM	NCM
518	0.700	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00				
519	0.600	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00				

520	0.500	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00
521	0.400	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00
522	0.300	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.31	0.00	0.00	0.00	0.00
523	0.200	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
524	0.100	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00
525	0.000	7.27	0.62	0.09	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.03	0.00	0.38	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.50 0.05 0.00 0.00 0.00 0.00 0.00 1.50 0.02 0.00 0.15 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM
518	0.700	32.30	0.00	0.00	0.00	6.43	6.52	0.00	6.52	0.00	2.48	0.14	0.00	2.62	0.00	29.25	0.00	0.	0.00
519	0.600	32.30	0.00	0.00	0.00	6.42	6.50	0.00	6.50	0.00	2.47	0.14	0.00	2.62	0.00	28.50	0.00	0.	0.00
520	0.500	32.30	0.00	0.00	0.00	6.42	6.49	0.00	6.49	0.00	2.47	0.14	0.00	2.62	0.00	27.75	0.00	0.	0.00
521	0.400	32.30	0.00	0.00	0.00	6.41	6.48	0.00	6.48	0.00	2.47	0.14	0.00	2.61	0.00	27.00	0.00	0.	0.00
522	0.300	32.30	0.00	0.00	0.00	6.40	6.46	0.00	6.46	0.00	2.47	0.14	0.00	2.61	0.00	26.25	0.00	0.	0.00
523	0.200	32.30	0.00	0.00	0.00	6.39	6.45	0.00	6.45	0.00	2.46	0.14	0.00	2.61	0.00	25.50	0.00	0.	0.00
524	0.100	32.30	0.00	0.00	0.00	6.38	6.44	0.00	6.44	0.00	2.46	0.14	0.00	2.60	0.00	24.75	0.00	0.	0.00
525	0.000	32.30	0.00	0.00	0.00	6.35	6.52	0.00	6.52	0.00	2.44	0.14	0.00	2.58	0.00	24.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

Station 935 Calibration Simulation for Lake Penchant and Bayou Penchant mode

TRAVEL TIME = 83.23 DAYS
MAXIMUM EFFLUENT = 45.44 PERCENT
FLOW = 0.11327 TO 6.66859 m³/s
DISPERSION = 0.0000 TO 0.3000 m²/s
VELOCITY = 0.00008 TO 0.06606 m/s
DEPTH = 1.40 TO 1.77 m
WIDTH = 35.00 TO ****** m
BOD DECAY = 0.08 TO 0.09 per day
NH3 DECAY = 0.22 TO 0.38 per day
SOD = 1.20 TO 5.78 g/m²/d
NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 0.48 TO 0.75 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day
TEMPERATURE = 31.00 TO 32.30 deg C
DISSOLVED OXYGEN = 4.69 TO 7.03 mg/L

LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
Calibration Simulation for Lake Penchant and Bayou Penchant mode
REACH SUMMARY REPORT FOR Bayou Chene

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Bayou Chene to Blackbird Bayou	35.10	31.80	3.30	0.17	30.46734	0.22640	1.000	135.00	1075.802	0.743	3.281	442.93
2	Blackbird Bayou to 120401-G	31.80	19.10	12.70	0.53	30.26726	0.27606	1.000	110.00	1068.737	0.906	3.281	360.91
3	120401-G to Turtle Bayou	19.10	13.90	5.20	0.42	22.76151	0.14366	1.768	90.00	803.709	0.471	5.801	295.29
4	Turtle Bayou to Carenero Bayou	13.90	9.90	4.00	0.51	24.82690	0.09095	1.768	155.00	876.638	0.298	5.801	508.55
5	Carenero Bayou to un canal 2	9.90	3.60	6.30	2.15	5.28639	0.03384	1.768	90.00	186.662	0.111	5.801	295.29
6	un canal 2 to Corasaw conf.	3.60	0.60	3.00	1.30	5.08639	0.02665	1.768	110.00	179.600	0.087	5.801	360.91

17 Corasaw conf. to 120401-C 0.60 0.00 0.60 0.10 8.81007 0.07141 1.402 88.00 311.084 0.234 4.600 288.73

LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments

Calibration Simulation for Lake Penchant and Bayou Penchant mode

REACH SUMMARY REPORT FOR Station 935

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
7	935 to Peoples Canal and L.P	18.00	15.80	2.20	13.91	0.11327	0.00183	1.768	35.00	4.000	0.006	5.801	114.83
8	Peoples C. and L.P to N. Outlet	15.80	14.90	0.90	54.63	1.65087	0.00019	1.768	2131.00	58.292	0.001	5.801	6991.81
9	N. Outlet to L. Penchant W. Sid	14.90	13.60	1.30	10.07	3.63867	0.00149	1.768	983.00	128.481	0.005	5.801	3225.22
10	L. P. W. Side to L. P W. Outlet	13.60	12.70	0.90	0.75	3.63867	0.01391	1.768	148.00	128.481	0.046	5.801	485.59
11	L. P W. Outlet to Superior Cana	12.70	10.80	1.90	0.65	3.63867	0.03374	1.768	61.00	128.481	0.111	5.801	200.14
12	Superior Canal to un canal 1	10.80	9.50	1.30	0.42	3.63867	0.03605	1.402	72.00	128.481	0.118	4.600	236.23
13	unnamed canal to Brady C/Weir 2	9.50	9.30	0.20	0.04	6.66859	0.06606	1.402	72.00	235.468	0.217	4.600	236.23
14	Brady C/Weir 2 to Km#	9.30	8.10	1.20	0.39	3.49429	0.03549	1.402	70.00	123.383	0.116	4.600	229.67
15	Km# to Pipeline Canal	8.10	0.80	7.30	2.14	3.69818	0.03947	1.402	65.00	130.583	0.129	4.600	213.26
16	Pipeline Canal to Corasaw conf.	0.80	0.00	0.80	0.23	3.72368	0.04074	1.402	65.00	131.483	0.134	4.600	213.26

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE IN	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT
1	16428.	0.	-16426.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-68.	0.	0.	0.	79.	0.	0.	-16551.1	16551.1	0.00
2	16426.	0.	-16423.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-68.	0.	0.	0.	80.	0.	0.	-16549.0	16549.0	0.00
3	16423.	0.	-16421.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	80.	0.	0.	-16546.9	16546.9	-0.01
4	16421.	0.	-16419.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	80.	0.	0.	-16544.9	16544.9	0.00
5	16419.	0.	-16417.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	80.	0.	0.	-16542.9	16542.9	-0.01
6	16417.	0.	-16415.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	80.	0.	0.	-16541.0	16541.0	0.00
7	16415.	0.	-16413.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	81.	0.	0.	-16539.1	16539.1	-0.01
8	16413.	0.	-16411.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	81.	0.	0.	-16537.3	16537.3	0.00
9	16411.	0.	-16409.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	81.	0.	0.	-16535.5	16535.5	0.00
10	16409.	0.	-16407.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	81.	0.	0.	-16533.7	16533.7	0.00
11	16407.	0.	-16405.	0.	0.	0.	7.	-11.	0.	0.	0.	37.	-44.	-2.	0.	0.	-69.	0.	0.	0.	82.	0.	0.	-16532.0	16532.0	0.00
12	16405.	0.	-16403.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-69.	0.	0.	0.	82.	0.	0.	-16530.3	16530.3	0.00
13	16403.	0.	-16402.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-69.	0.	0.	0.	82.	0.	0.	-16528.6	16528.6	-0.01
14	16402.	0.	-16400.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-69.	0.	0.	0.	82.	0.	0.	-16527.0	16527.0	0.00
15	16400.	0.	-16398.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	83.	0.	0.	-16525.5	16525.5	-0.01
16	16398.	0.	-16397.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	83.	0.	0.	-16523.9	16523.9	0.00
17	16397.	0.	-16395.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	83.	0.	0.	-16522.4	16522.4	0.00
18	16395.	0.	-16393.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	83.	0.	0.	-16521.0	16521.0	0.00
19	16393.	0.	-16392.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	84.	0.	0.	-16519.6	16519.6	-0.01
20	16392.	0.	-16390.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	84.	0.	0.	-16518.2	16518.2	-0.01
21	16390.	0.	-16389.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	84.	0.	0.	-16516.8	16516.8	0.00
22	16389.	0.	-16388.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	84.	0.	0.	-16515.5	16515.5	-0.01
23	16388.	0.	-16386.	0.	0.	0.	7.	-11.	0.	0.	0.	36.	-44.	-2.	0.	0.	-70.	0.	0.	0.	85.	0.	0.	-16514.3	16514.3	-0.01
24	16386.	0.	-16385.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-44.	-2.	0.	0.	-70.	0.	0.	0.	85.	0.	0.	-16513.0	16513.0	0.00
25	16385.	0.	-16383.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-44.	-2.	0.	0.	-70.	0.	0.	0.	85.	0.	0.	-16511.9	16511.9	0.00
26	16383.	0.	-16382.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-70.	0.	0.	0.	85.	0.	0.	-16510.7	16510.7	0.00
27	16382.	0.	-16381.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-70.	0.	0.	0.	86.	0.	0.	-16509.6	16509.6	0.00
28	16381.	0.	-16380.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-71.	0.	0.	0.	86.	0.	0.	-16508.5	16508.5	-0.01
29	16380.	0.	-16379.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-71.	0.	0.	0.	86.	0.	0.	-16507.5	16507.5	-0.01
30	16379.	0.	-16377.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-71.	0.	0.	0.	86.	0.	0.	-16506.5	16506.5	-0.01

31	16377.	0.	-16376.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-71.	0.	0.	0.	87.	0.	0.	-16505.5	16505.5	0.00
32	16376.	0.	-16375.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-71.	0.	0.	0.	87.	0.	0.	-16504.6	16504.6	0.00
33	16375.	0.	-16374.	0.	0.	0.	7.	-11.	0.	0.	0.	35.	-45.	-2.	0.	0.	-71.	0.	0.	0.	87.	0.	0.	-16503.6	16503.6	0.00
34	16374.	0.	-16371.	0.	0.	0.	17.	-22.	0.	0.	0.	31.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16493.5	16493.5	-0.01
35	16371.	0.	-16367.	0.	0.	0.	17.	-22.	0.	0.	0.	31.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16490.2	16490.1	0.00
36	16367.	0.	-16364.	0.	0.	0.	17.	-22.	0.	0.	0.	31.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16486.8	16486.8	0.00
37	16364.	0.	-16360.	0.	0.	0.	17.	-22.	0.	0.	0.	31.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16483.4	16483.4	0.00
38	16360.	0.	-16357.	0.	0.	0.	17.	-22.	0.	0.	0.	31.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16480.0	16480.0	0.00
39	16357.	0.	-16353.	0.	0.	0.	17.	-22.	0.	0.	0.	31.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16476.6	16476.6	0.00
40	16353.	0.	-16350.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16473.2	16473.2	0.00
41	16350.	0.	-16347.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16469.8	16469.8	0.00
42	16347.	0.	-16343.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16466.4	16466.4	0.00
43	16343.	0.	-16340.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16463.0	16463.0	0.00
44	16340.	0.	-16336.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16459.6	16459.6	0.00
45	16336.	0.	-16333.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16456.3	16456.3	0.00
46	16333.	0.	-16329.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16452.9	16452.9	-0.01
47	16329.	0.	-16326.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-37.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16449.5	16449.5	0.00
48	16326.	0.	-16322.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	71.	0.	0.	-16446.1	16446.1	0.00
49	16322.	0.	-16319.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16442.7	16442.7	0.00
50	16319.	0.	-16316.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16439.4	16439.4	0.00
51	16316.	0.	-16312.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16436.0	16436.0	0.00
52	16312.	0.	-16309.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16432.6	16432.6	0.00
53	16309.	0.	-16305.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16429.2	16429.2	0.00
54	16305.	0.	-16302.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16425.9	16425.9	0.00
55	16302.	0.	-16298.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16422.5	16422.5	0.00
56	16298.	0.	-16295.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16419.1	16419.1	0.00
57	16295.	0.	-16292.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16415.8	16415.8	0.00
58	16292.	0.	-16288.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16412.4	16412.4	0.00
59	16288.	0.	-16285.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16409.1	16409.1	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT
60	16285.	0.	-16281.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16405.7	16405.7	0.00
61	16281.	0.	-16278.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16402.4	16402.4	0.00
62	16278.	0.	-16274.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16399.0	16399.0	0.00
63	16274.	0.	-16271.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-38.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16395.7	16395.7	0.00
64	16271.	0.	-16268.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16392.3	16392.3	0.00
65	16268.	0.	-16264.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16389.0	16389.0	0.00
66	16264.	0.	-16261.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16385.7	16385.7	0.00
67	16261.	0.	-16257.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16382.3	16382.3	0.00
68	16257.	0.	-16254.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16379.0	16379.0	0.00
69	16254.	0.	-16251.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16375.7	16375.7	0.00
70	16251.	0.	-16247.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16372.4	16372.4	0.00
71	16247.	0.	-16244.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16369.0	16369.0	0.00
72	16244.	0.	-16241.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16365.7	16365.7	0.00
73	16241.	0.	-16237.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16362.4	16362.4	0.00
74	16237.	0.	-16234.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16359.1	16359.1	0.00
75	16234.	0.	-16230.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	72.	0.	0.	-16355.8	16355.8	0.00
76	16230.	0.	-16227.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16352.5	16352.5	0.00
77	16227.	0.	-16224.	0.	0.	0.	17.	-22.	0.	0.	0.	32.	-39.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16349.2	16349.2	0.00

78	16224.	0.	-16220.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-39.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16346.0	16345.9	0.00
79	16220.	0.	-16217.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-39.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16342.7	16342.7	0.00
80	16217.	0.	-16214.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16339.4	16339.4	0.00
81	16214.	0.	-16210.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16336.1	16336.1	0.00
82	16210.	0.	-16207.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16332.8	16332.8	0.00
83	16207.	0.	-16204.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16329.6	16329.6	0.00
84	16204.	0.	-16200.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16326.3	16326.3	0.00
85	16200.	0.	-16197.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16323.1	16323.1	0.00
86	16197.	0.	-16194.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16319.8	16319.8	0.00
87	16194.	0.	-16191.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16316.6	16316.6	0.00
88	16191.	0.	-16187.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16313.3	16313.3	0.00
89	16187.	0.	-16184.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16310.1	16310.1	0.00
90	16184.	0.	-16181.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16306.9	16306.9	0.00
91	16181.	0.	-16177.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16303.7	16303.7	0.00
92	16177.	0.	-16174.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16300.4	16300.4	0.00
93	16174.	0.	-16171.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16297.2	16297.2	0.00
94	16171.	0.	-16168.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16294.0	16294.0	0.00
95	16168.	0.	-16164.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-40.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16290.8	16290.8	0.00
96	16164.	0.	-16161.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16287.6	16287.6	0.00
97	16161.	0.	-16158.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16284.4	16284.4	0.00
98	16158.	0.	-16155.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16281.2	16281.2	0.00
99	16155.	0.	-16151.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16278.1	16278.1	0.00
100	16151.	0.	-16148.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16274.9	16274.9	0.00
101	16148.	0.	-16145.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16271.7	16271.7	0.00
102	16145.	0.	-16142.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	73.	0.	0.	-16268.6	16268.6	0.00
103	16142.	0.	-16138.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16265.4	16265.4	0.00
104	16138.	0.	-16135.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16262.3	16262.3	0.00
105	16135.	0.	-16132.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16259.1	16259.1	0.00
106	16132.	0.	-16129.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16256.0	16256.0	0.00
107	16129.	0.	-16126.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16252.9	16252.9	0.00
108	16126.	0.	-16122.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16249.7	16249.7	0.00
109	16122.	0.	-16119.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16246.6	16246.6	0.00
110	16119.	0.	-16116.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16243.5	16243.5	0.00
111	16116.	0.	-16113.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16240.4	16240.4	0.00
112	16113.	0.	-16110.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-41.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16237.3	16237.3	0.00
113	16110.	0.	-16107.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16234.2	16234.2	0.00
114	16107.	0.	-16104.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16231.1	16231.1	0.00
115	16104.	0.	-16100.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16228.0	16228.0	0.00
116	16100.	0.	-16097.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16225.0	16225.0	0.00
117	16097.	0.	-16094.	0.	0.	0.	17.	-22.	0.	0.	0.	33.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16221.9	16221.9	0.00
118	16094.	0.	-16091.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16218.8	16218.8	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP IN	WSLD OUT	WITH DECA	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
119	16091.	0.	-16088.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16215.8	16215.8	0.00
120	16088.	0.	-16085.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16212.7	16212.7	0.00
121	16085.	0.	-16082.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16209.7	16209.7	0.00
122	16082.	0.	-16079.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16206.7	16206.7	0.00
123	16079.	0.	-16076.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16203.6	16203.6	0.00
124	16076.	0.	-16073.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16200.6	16200.6	0.00

125	16073.	0.	-16069.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16197.6	16197.6	0.00
126	16069.	0.	-16066.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16194.6	16194.6	0.00
127	16066.	0.	-16063.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16191.6	16191.6	0.00
128	16063.	0.	-16060.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16188.6	16188.6	0.00
129	16060.	0.	-16057.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	74.	0.	0.	-16185.6	16185.6	0.00
130	16057.	0.	-16054.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-42.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16182.6	16182.6	0.00
131	16054.	0.	-16051.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16179.7	16179.7	0.00
132	16051.	0.	-16048.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16176.7	16176.7	0.00
133	16048.	0.	-16045.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16173.7	16173.7	0.00
134	16045.	0.	-16042.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16170.8	16170.8	0.00
135	16042.	0.	-16039.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16167.8	16167.8	0.00
136	16039.	0.	-16036.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16164.9	16164.9	0.00
137	16036.	0.	-16033.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16162.0	16162.0	0.00
138	16033.	0.	-16030.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16159.1	16159.1	0.00
139	16030.	0.	-16027.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16156.1	16156.1	0.00
140	16027.	0.	-16024.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16153.2	16153.2	0.00
141	16024.	0.	-16021.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16150.3	16150.3	0.00
142	16021.	0.	-16018.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16147.4	16147.4	0.00
143	16018.	0.	-16015.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16144.6	16144.6	0.00
144	16015.	0.	-16013.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16141.7	16141.7	0.00
145	16013.	0.	-16010.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16138.8	16138.8	0.00
146	16010.	0.	-16007.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16135.9	16135.9	0.00
147	16007.	0.	-16004.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16133.1	16133.1	0.00
148	16004.	0.	-16001.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16130.2	16130.2	0.00
149	16001.	0.	-15998.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-43.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16127.4	16127.4	0.00
150	15998.	0.	-15995.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16124.6	16124.6	0.00
151	15995.	0.	-15992.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16121.7	16121.7	0.00
152	15992.	0.	-15989.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16118.9	16118.9	0.00
153	15989.	0.	-15987.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16116.1	16116.1	0.00
154	15987.	0.	-15984.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16113.3	16113.3	0.00
155	15984.	0.	-15981.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	75.	0.	0.	-16110.5	16110.5	0.00
156	15981.	0.	-15978.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-16107.7	16107.7	0.00
157	15978.	0.	-15975.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-16104.9	16104.9	0.00
158	15975.	0.	-15972.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-16102.2	16102.2	0.00
159	15972.	0.	-15970.	0.	0.	0.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-16099.4	16099.4	0.00
160	15970.	0.	-15968.	0.	0.	1.	17.	-22.	0.	0.	0.	34.	-44.	-2.	0.	0.	-62.	0.	0.	0.	76.	0.	0.	-16097.9	16097.9	0.00
161	15968.	0.	-12162.	-1.	0.	2.	4.	-7.	0.	0.	-3870.	15.	-27.	-3.	0.	0.	-28.	0.	0.	0.	109.	0.	0.	-16097.9	16097.9	0.00
162	12162.	0.	-12224.	-2.	0.	2.	4.	-7.	0.	0.	0.	15.	-27.	-3.	0.	0.	-28.	0.	0.	0.	108.	0.	0.	-12290.7	12290.7	0.00
163	12224.	0.	-12286.	-2.	0.	2.	4.	-7.	0.	0.	0.	14.	-26.	-3.	0.	0.	-28.	0.	0.	0.	108.	0.	0.	-12352.2	12352.2	0.00
164	12286.	0.	-12346.	-2.	0.	2.	4.	-7.	0.	0.	0.	14.	-26.	-3.	0.	0.	-28.	0.	0.	0.	107.	0.	0.	-12412.7	12412.7	0.00
165	12346.	0.	-12406.	-2.	0.	2.	4.	-7.	0.	0.	0.	13.	-26.	-3.	0.	0.	-28.	0.	0.	0.	107.	0.	0.	-12472.4	12472.4	0.00
166	12406.	0.	-12465.	-2.	0.	2.	4.	-7.	0.	0.	0.	13.	-26.	-3.	0.	0.	-28.	0.	0.	0.	106.	0.	0.	-12531.0	12531.0	0.00
167	12465.	0.	-12522.	-2.	0.	2.	4.	-7.	0.	0.	0.	13.	-26.	-3.	0.	0.	-28.	0.	0.	0.	106.	0.	0.	-12588.8	12588.8	0.00
168	12522.	0.	-12579.	-2.	0.	2.	4.	-7.	0.	0.	0.	12.	-26.	-3.	0.	0.	-28.	0.	0.	0.	105.	0.	0.	-12645.7	12645.7	-0.01
169	12579.	0.	-12635.	-2.	0.	2.	4.	-7.	0.	0.	0.	12.	-26.	-3.	0.	0.	-28.	0.	0.	0.	105.	0.	0.	-12701.6	12701.6	0.00
170	12635.	0.	-12690.	-2.	0.	2.	4.	-7.	0.	0.	0.	12.	-26.	-3.	0.	0.	-28.	0.	0.	0.	104.	0.	0.	-12756.7	12756.7	0.00
171	12690.	0.	-12744.	-2.	0.	2.	4.	-7.	0.	0.	0.	11.	-26.	-3.	0.	0.	-28.	0.	0.	0.	104.	0.	0.	-12810.8	12810.8	0.00
172	12744.	0.	-12798.	-2.	0.	2.	4.	-8.	0.	0.	0.	11.	-26.	-3.	0.	0.	-28.	0.	0.	0.	103.	0.	0.	-12864.1	12864.1	0.00
173	12798.	0.	-12850.	-2.	0.	1.	4.	-8.	0.	0.	0.	10.	-26.	-3.	0.	0.	-28.	0.	0.	0.	103.	0.	0.	-12916.4	12916.4	0.00
174	12850.	0.	-12902.	-1.	0.	1.	4.	-8.	0.	0.	0.	10.	-26.	-3.	0.	0.	-28.	0.	0.	0.	102.	0.	0.	-12967.9	12967.9	0.00

175	12902.	0.	-12952.	-1.	0.	1.	4.	-8.	0.	0.	0.	10.	-26.	-3.	0.	0.	-28.	0.	0.	0.	102.	0.	0.	-13018.6	13018.5	-0.01							
176	12952.	0.	-13002.	-1.	0.	1.	4.	-8.	0.	0.	0.	9.	-26.	-3.	0.	0.	-28.	0.	0.	0.	101.	0.	0.	-13068.3	13068.3	-0.01							
177	13002.	0.	-13051.	-1.	0.	1.	4.	-8.	0.	0.	0.	9.	-26.	-3.	0.	0.	-28.	0.	0.	0.	100.	0.	0.	-13117.2	13117.2	0.00							

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP IN	WSLD OUT	WITH IN	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
178	13051.	0.	-13099.	-1.	0.	1.	4.	-8.	0.	0.	0.	9.	-26.	-3.	0.	0.	-28.	0.	0.	0.	100.	0.	0.	-13165.2	13165.2	0.00	
179	13099.	0.	-13146.	-1.	0.	1.	4.	-8.	0.	0.	0.	9.	-26.	-3.	0.	0.	-28.	0.	0.	0.	99.	0.	0.	-13212.4	13212.4	0.00	
180	13146.	0.	-13193.	-1.	0.	1.	4.	-8.	0.	0.	0.	8.	-26.	-3.	0.	0.	-28.	0.	0.	0.	99.	0.	0.	-13258.8	13258.8	0.00	
181	13193.	0.	-13238.	-1.	0.	1.	4.	-8.	0.	0.	0.	8.	-26.	-3.	0.	0.	-28.	0.	0.	0.	98.	0.	0.	-13304.3	13304.3	0.00	
182	13238.	0.	-13283.	-1.	0.	1.	4.	-8.	0.	0.	0.	8.	-26.	-3.	0.	0.	-28.	0.	0.	0.	98.	0.	0.	-13349.0	13349.0	0.00	
183	13283.	0.	-13327.	-1.	0.	1.	4.	-8.	0.	0.	0.	7.	-26.	-3.	0.	0.	-28.	0.	0.	0.	97.	0.	0.	-13392.8	13392.8	0.00	
184	13327.	0.	-13370.	-1.	0.	1.	4.	-8.	0.	0.	0.	7.	-26.	-3.	0.	0.	-28.	0.	0.	0.	97.	0.	0.	-13435.9	13435.9	-0.01	
185	13370.	0.	-13412.	-1.	0.	1.	4.	-8.	0.	0.	0.	7.	-26.	-3.	0.	0.	-28.	0.	0.	0.	96.	0.	0.	-13478.1	13478.1	0.00	
186	13412.	0.	-13453.	-1.	0.	1.	4.	-8.	0.	0.	0.	6.	-26.	-3.	0.	0.	-28.	0.	0.	0.	96.	0.	0.	-13519.5	13519.5	-0.01	
187	13453.	0.	-13494.	-1.	0.	1.	4.	-8.	0.	0.	0.	6.	-26.	-3.	0.	0.	-28.	0.	0.	0.	95.	0.	0.	-13560.1	13560.1	-0.01	
188	13494.	0.	-13534.	-1.	0.	1.	4.	-8.	0.	0.	0.	6.	-26.	-3.	0.	0.	-28.	0.	0.	0.	95.	0.	0.	-13599.9	13599.9	-0.01	
189	13534.	0.	-13573.	-1.	0.	1.	4.	-8.	0.	0.	0.	6.	-26.	-3.	0.	0.	-28.	0.	0.	0.	94.	0.	0.	-13639.0	13638.9	-0.01	
190	13573.	0.	-13611.	-1.	0.	1.	4.	-8.	0.	0.	0.	5.	-26.	-3.	0.	0.	-28.	0.	0.	0.	94.	0.	0.	-13677.2	13677.2	0.00	
191	13611.	0.	-13649.	-1.	0.	1.	4.	-8.	0.	0.	0.	5.	-26.	-3.	0.	0.	-28.	0.	0.	0.	93.	0.	0.	-13714.6	13714.6	-0.01	
192	13649.	0.	-13685.	-1.	0.	1.	4.	-8.	0.	0.	0.	5.	-26.	-3.	0.	0.	-28.	0.	0.	0.	93.	0.	0.	-13751.3	13751.3	-0.01	
193	13685.	0.	-13721.	-1.	0.	1.	4.	-8.	0.	0.	0.	5.	-26.	-3.	0.	0.	-28.	0.	0.	0.	92.	0.	0.	-13787.2	13787.2	0.00	
194	13721.	0.	-13756.	-1.	0.	1.	4.	-8.	0.	0.	0.	4.	-26.	-3.	0.	0.	-28.	0.	0.	0.	92.	0.	0.	-13822.4	13822.3	-0.01	
195	13756.	0.	-13791.	-1.	0.	1.	4.	-8.	0.	0.	0.	4.	-26.	-3.	0.	0.	-28.	0.	0.	0.	91.	0.	0.	-13856.7	13856.7	-0.01	
196	13791.	0.	-13824.	-1.	0.	1.	4.	-8.	0.	0.	0.	4.	-26.	-3.	0.	0.	-28.	0.	0.	0.	90.	0.	0.	-13890.4	13890.3	-0.01	
197	13824.	0.	-13857.	-1.	0.	1.	4.	-8.	0.	0.	0.	4.	-26.	-3.	0.	0.	-28.	0.	0.	0.	90.	0.	0.	-13923.2	13923.2	-0.01	
198	13857.	0.	-13889.	-1.	0.	1.	4.	-8.	0.	0.	0.	4.	-26.	-3.	0.	0.	-28.	0.	0.	0.	89.	0.	0.	-13955.4	13955.3	-0.01	
199	13889.	0.	-13921.	-1.	0.	1.	4.	-8.	0.	0.	0.	3.	-26.	-3.	0.	0.	-28.	0.	0.	0.	89.	0.	0.	-13986.7	13986.7	0.00	
200	13921.	0.	-13951.	-1.	0.	1.	4.	-8.	0.	0.	0.	3.	-26.	-3.	0.	0.	-28.	0.	0.	0.	88.	0.	0.	-14017.4	14017.4	-0.01	
201	13951.	0.	-13981.	-1.	0.	1.	4.	-8.	0.	0.	0.	3.	-26.	-3.	0.	0.	-28.	0.	0.	0.	88.	0.	0.	-14047.3	14047.3	-0.01	
202	13981.	0.	-14011.	-1.	0.	1.	4.	-8.	0.	0.	0.	3.	-26.	-3.	0.	0.	-28.	0.	0.	0.	87.	0.	0.	-14076.5	14076.5	-0.01	
203	14011.	0.	-14039.	-1.	0.	1.	4.	-8.	0.	0.	0.	3.	-26.	-3.	0.	0.	-28.	0.	0.	0.	87.	0.	0.	-14105.0	14105.0	-0.01	
204	14039.	0.	-14067.	-1.	0.	1.	4.	-8.	0.	0.	0.	2.	-26.	-3.	0.	0.	-28.	0.	0.	0.	86.	0.	0.	-14132.8	14132.8	-0.01	
205	14067.	0.	-14094.	-1.	0.	1.	4.	-8.	0.	0.	0.	2.	-26.	-3.	0.	0.	-28.	0.	0.	0.	86.	0.	0.	-14159.8	14159.8	-0.01	
206	14094.	0.	-14120.	-1.	0.	1.	4.	-8.	0.	0.	0.	2.	-26.	-3.	0.	0.	-28.	0.	0.	0.	85.	0.	0.	-14186.2	14186.2	0.00	
207	14120.	0.	-14146.	-1.	0.	1.	4.	-8.	0.	0.	0.	2.	-25.	-3.	0.	0.	-28.	0.	0.	0.	85.	0.	0.	-14211.8	14211.8	-0.01	
208	14146.	0.	-14171.	-1.	0.	1.	4.	-8.	0.	0.	0.	2.	-25.	-3.	0.	0.	-28.	0.	0.	0.	84.	0.	0.	-14236.8	14236.8	0.00	
209	14171.	0.	-14195.	-1.	0.	1.	4.	-8.	0.	0.	0.	1.	-25.	-3.	0.	0.	-28.	0.	0.	0.	84.	0.	0.	-14261.0	14261.0	-0.01	
210	14195.	0.	-14219.	-1.	0.	1.	4.	-8.	0.	0.	0.	1.	-25.	-3.	0.	0.	-28.	0.	0.	0.	83.	0.	0.	-14284.6	14284.6	-0.01	
211	14219.	0.	-14241.	-1.	0.	0.	4.	-8.	0.	0.	0.	1.	-25.	-3.	0.	0.	-28.	0.	0.	0.	83.	0.	0.	-14307.0	14307.0	-0.01	
212	14241.	0.	-14245.	0.	0.	-18.	4.	-8.	0.	0.	0.	1.	-25.	-3.	0.	0.	-28.	0.	0.	0.	82.	0.	0.	-14328.7	14328.7	-0.01	
213	14245.	0.	-15037.	18.	0.	2.	5.	-11.	0.	724.	0.	6.	-40.	-4.	0.	0.	-49.	0.	0.	0.	140.	0.	0.	-15141.4	15141.4	-0.01	
214	15037.	0.	-15083.	-2.	0.	2.	5.	-11.	0.	0.	0.	6.	-40.	-4.	0.	0.	-49.	0.	0.	0.	139.	0.	0.	-15189.2	15189.2	-0.01	
215	15083.	0.	-15128.	-2.	0.	2.	5.	-11.	0.	0.	0.	6.	-40.	-4.	0.	0.	-49.	0.	0.	0.	138.	0.	0.	-15233.7	15233.7	-0.01	
216	15128.	0.	-15171.	-2.	0.	1.	5.	-11.	0.	0.	0.	5.	-40.	-4.	0.	0.	-49.	0.	0.	0.	137.	0.	0.	-15276.7	15276.7	-0.01	
217	15171.	0.	-15212.	-1.	0.	1.	5.	-11.	0.	0.	0.	5.	-40.	-4.	0.	0.	-49.	0.	0.	0.	135.	0.	0.	-15318.2	15318.2	-0.01	
218	15212.	0.	-15253.	-1.	0.	1.	5.	-11.	0.	0.	0.	5.	-40.	-5.	0.	0.	-49.	0.	0.	0.	134.	0.	0.	-15358.1	15358.1	-0.01	
219	15253.	0.	-15291.	-1.	0.	1.	5.	-11.	0.	0.	0.	4.	-40.	-5.	0.	0.	-49.	0.	0.	0.	133.	0.	0.	-15396.6	15396.6	-0.01	
220	15291.	0.	-15328.	-1.	0.	1.	5.	-11.	0.	0.	0.	4.	-40.	-5.	0.	0.	-49.	0.	0.	0.	132.	0.	0.	-15433.6	15433.6	-0.01	
221	15328.	0.	-15364.	-1.	0.	1.	5.	-11.	0.	0.	0.	4.	-40.	-5.	0.	0.	-49.	0.	0.	0.	131.	0.	0.	-15469.1	15469.1	-0.01	

222	15364.	0.	-15398.	-1.	0.	1.	5.	-11.	0.	0.	0.	3.	-40.	-5.	0.	0.	-49.	0.	0.	0.	130.	0.	0.	-15503.2	15503.2	-0.01
223	15398.	0.	-15431.	-1.	0.	1.	5.	-11.	0.	0.	0.	3.	-40.	-5.	0.	0.	-49.	0.	0.	0.	128.	0.	0.	-15535.8	15535.8	-0.01
224	15431.	0.	-15462.	-1.	0.	1.	5.	-11.	0.	0.	0.	3.	-40.	-5.	0.	0.	-49.	0.	0.	0.	127.	0.	0.	-15567.0	15567.0	-0.02
225	15462.	0.	-15492.	-1.	0.	1.	5.	-11.	0.	0.	0.	3.	-40.	-5.	0.	0.	-49.	0.	0.	0.	126.	0.	0.	-15596.8	15596.8	-0.01
226	15492.	0.	-15520.	-1.	0.	1.	5.	-11.	0.	0.	0.	2.	-40.	-5.	0.	0.	-49.	0.	0.	0.	125.	0.	0.	-15625.2	15625.2	-0.01
227	15520.	0.	-15547.	-1.	0.	1.	5.	-11.	0.	0.	0.	2.	-40.	-5.	0.	0.	-49.	0.	0.	0.	124.	0.	0.	-15652.2	15652.2	-0.01
228	15547.	0.	-15573.	-1.	0.	1.	5.	-11.	0.	0.	0.	2.	-40.	-5.	0.	0.	-49.	0.	0.	0.	123.	0.	0.	-15677.8	15677.8	-0.01
229	15573.	0.	-15597.	-1.	0.	1.	5.	-11.	0.	0.	0.	2.	-40.	-5.	0.	0.	-49.	0.	0.	0.	121.	0.	0.	-15702.0	15702.0	-0.01
230	15597.	0.	-15620.	-1.	0.	1.	5.	-11.	0.	0.	0.	1.	-40.	-5.	0.	0.	-49.	0.	0.	0.	120.	0.	0.	-15724.9	15724.9	-0.01
231	15620.	0.	-15642.	-1.	0.	1.	5.	-11.	0.	0.	0.	1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	119.	0.	0.	-15746.4	15746.4	-0.01
232	15642.	0.	-15662.	-1.	0.	1.	5.	-11.	0.	0.	0.	1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	118.	0.	0.	-15766.6	15766.6	-0.01
233	15662.	0.	-15681.	-1.	0.	1.	5.	-11.	0.	0.	0.	1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	117.	0.	0.	-15785.5	15785.5	-0.01
234	15681.	0.	-15699.	-1.	0.	1.	5.	-11.	0.	0.	0.	1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	115.	0.	0.	-15803.1	15803.1	-0.01
235	15699.	0.	-15715.	-1.	0.	1.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	114.	0.	0.	-15819.3	15819.3	-0.01
236	15715.	0.	-15730.	-1.	0.	1.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	113.	0.	0.	-15834.3	15834.3	-0.01

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

IOR	UPMN	UPTR	LOWR	UPMN	UPTR	LOWR	INCR	INCR	NONP	WSLD	WITH	REAE	BOD1	NH3-N	ORG-N	NCM	SOD	SOD	SOD	SOD	ALG	ALG	MAC	TOT	TOT
	ADV	ADV	ADV	DISP	DISP	DISP	IN	OUT	IN	IN	OUT	IN	DECA	DECA	DECA	DECA	BKGD	BOD1	ALG	NCM	PHOT	RESP	PHOT	OUT	IN
237	15730.	0.	-15744.	-1.	0.	1.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	112.	0.	0.	-15848.0	15848.0	-0.01
238	15744.	0.	-15756.	-1.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	111.	0.	0.	-15860.4	15860.4	-0.01
239	15756.	0.	-15767.	0.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	110.	0.	0.	-15871.6	15871.6	-0.01
240	15767.	0.	-15777.	0.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	108.	0.	0.	-15881.7	15881.7	-0.01
241	15777.	0.	-15786.	0.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	107.	0.	0.	-15890.5	15890.4	-0.01
242	15786.	0.	-15794.	0.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	106.	0.	0.	-15898.0	15898.0	-0.02
243	15794.	0.	-15800.	0.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	105.	0.	0.	-15904.3	15904.3	-0.02
244	15800.	0.	-15805.	0.	0.	0.	5.	-11.	0.	0.	0.	0.	-39.	-5.	0.	0.	-49.	0.	0.	0.	104.	0.	0.	-15909.5	15909.4	-0.01
245	15805.	0.	-15809.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	102.	0.	0.	-15913.4	15913.3	-0.01
246	15809.	0.	-15812.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	101.	0.	0.	-15916.1	15916.1	-0.01
247	15812.	0.	-15814.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	100.	0.	0.	-15917.6	15917.6	-0.02
248	15814.	0.	-15814.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	99.	0.	0.	-15918.0	15918.0	-0.01
249	15814.	0.	-15813.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	98.	0.	0.	-15917.2	15917.2	-0.02
250	15813.	0.	-15811.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-39.	-5.	0.	0.	-49.	0.	0.	0.	97.	0.	0.	-15915.2	15915.2	-0.01
251	15811.	0.	-15808.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-38.	-5.	0.	0.	-49.	0.	0.	0.	95.	0.	0.	-15912.2	15912.2	-0.01
252	15808.	0.	-15804.	0.	0.	0.	5.	-11.	0.	0.	0.	-1.	-38.	-5.	0.	0.	-49.	0.	0.	0.	94.	0.	0.	-15908.0	15908.0	-0.01
253	15804.	0.	-3490.	0.	0.	0.	3.	-7.	0.	0.******		0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	54.	0.	0.	-15862.1	15862.1	-0.01
254	3490.	0.	-3487.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	54.	0.	0.	-3547.8	3547.8	-0.01
255	3487.	0.	-3484.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	54.	0.	0.	-3544.3	3544.3	-0.01
256	3484.	0.	-3480.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	53.	0.	0.	-3540.5	3540.5	-0.01
257	3480.	0.	-3476.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	53.	0.	0.	-3536.5	3536.5	-0.01
258	3476.	0.	-3472.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	53.	0.	0.	-3532.2	3532.2	-0.01
259	3472.	0.	-3467.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	52.	0.	0.	-3527.7	3527.7	-0.01
260	3467.	0.	-3463.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	52.	0.	0.	-3523.0	3523.0	-0.01
261	3463.	0.	-3458.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	52.	0.	0.	-3518.0	3518.0	-0.01
262	3458.	0.	-3453.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	51.	0.	0.	-3512.9	3512.9	-0.01
263	3453.	0.	-3448.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-22.	-3.	0.	0.	-28.	0.	0.	0.	51.	0.	0.	-3507.5	3507.5	-0.01
264	3448.	0.	-3442.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-21.	-3.	0.	0.	-28.	0.	0.	0.	51.	0.	0.	-3502.0	3501.9	-0.01
265	3442.	0.	-3436.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-21.	-3.	0.	0.	-28.	0.	0.	0.	50.	0.	0.	-3496.2	3496.2	-0.01
266	3436.	0.	-3430.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-21.	-3.	0.	0.	-28.	0.	0.	0.	50.	0.	0.	-3490.2	3490.2	-0.01
267	3430.	0.	-3424.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-21.	-3.	0.	0.	-28.	0.	0.	0.	50.	0.	0.	-3484.0	3484.0	-0.01
268	3424.	0.	-3418.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-21.	-3.	0.	0.	-28.	0.	0.	0.	49.	0.	0.	-3477.7	3477.7	-0.01

269	3418.	0.	-3411.	0.	0.	0.	3.	-7.	0.	0.	0.	0.	-21.	-3.	0.	0.	-28.	0.	0.	0.	49.	0.	0.	-3471.1	3471.1	-0.01
270	3411.	0.	-3405.	0.	0.	0.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	48.	0.	0.	-3464.3	3464.3	-0.01
271	3405.	0.	-3398.	0.	0.	0.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	48.	0.	0.	-3457.4	3457.4	-0.01
272	3398.	0.	-3391.	0.	0.	0.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	48.	0.	0.	-3450.3	3450.3	-0.01
273	3391.	0.	-3384.	0.	0.	0.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	47.	0.	0.	-3443.0	3443.0	-0.01
274	3384.	0.	-3376.	0.	0.	0.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	47.	0.	0.	-3435.5	3435.5	-0.01
275	3376.	0.	-3369.	0.	0.	-1.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	47.	0.	0.	-3427.8	3427.8	-0.01
276	3369.	0.	-3361.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	46.	0.	0.	-3420.0	3420.0	-0.01
277	3361.	0.	-3353.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-21.	-3.	0.	0.	-28.	0.	0.	0.	46.	0.	0.	-3412.0	3412.0	-0.01
278	3353.	0.	-3345.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-20.	-3.	0.	0.	-28.	0.	0.	0.	46.	0.	0.	-3403.8	3403.8	-0.01
279	3345.	0.	-3337.	1.	0.	-1.	3.	-7.	0.	0.	0.	1.	-20.	-3.	0.	0.	-28.	0.	0.	0.	45.	0.	0.	-3395.5	3395.5	-0.01
280	3337.	0.	-3328.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	45.	0.	0.	-3387.1	3387.0	-0.01
281	3328.	0.	-3320.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	45.	0.	0.	-3378.4	3378.4	-0.01
282	3320.	0.	-3311.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	44.	0.	0.	-3369.6	3369.6	-0.01
283	3311.	0.	-3302.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	44.	0.	0.	-3360.7	3360.7	-0.01
284	3302.	0.	-3293.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	44.	0.	0.	-3351.6	3351.6	-0.01
285	3293.	0.	-3284.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	43.	0.	0.	-3342.4	3342.4	-0.01
286	3284.	0.	-3275.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	43.	0.	0.	-3333.0	3333.0	-0.01
287	3275.	0.	-3265.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	43.	0.	0.	-3323.5	3323.5	-0.01
288	3265.	0.	-3256.	1.	0.	-1.	3.	-7.	0.	0.	0.	2.	-20.	-3.	0.	0.	-28.	0.	0.	0.	42.	0.	0.	-3313.9	3313.9	-0.01
289	3256.	0.	-3246.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-20.	-3.	0.	0.	-28.	0.	0.	0.	42.	0.	0.	-3304.1	3304.1	-0.01
290	3246.	0.	-3236.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-20.	-3.	0.	0.	-28.	0.	0.	0.	42.	0.	0.	-3294.2	3294.2	-0.01
291	3236.	0.	-3226.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-20.	-3.	0.	0.	-28.	0.	0.	0.	41.	0.	0.	-3284.2	3284.1	-0.01
292	3226.	0.	-3216.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-20.	-3.	0.	0.	-28.	0.	0.	0.	41.	0.	0.	-3274.0	3274.0	-0.01
293	3216.	0.	-3206.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-19.	-3.	0.	0.	-28.	0.	0.	0.	40.	0.	0.	-3263.7	3263.7	-0.01
294	3206.	0.	-3195.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-19.	-3.	0.	0.	-28.	0.	0.	0.	40.	0.	0.	-3253.3	3253.3	-0.01
295	3195.	0.	-3185.	1.	0.	-1.	3.	-7.	0.	0.	0.	3.	-19.	-3.	0.	0.	-28.	0.	0.	0.	40.	0.	0.	-3242.8	3242.8	-0.01

DISSOLVED OXYGEN LOADING FOR REACH 1: Bayou Chene

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
296	3185.	0.	-3174.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	39.	0.	0.	-3232.1	3232.1	-0.01
297	3174.	0.	-3164.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	39.	0.	0.	-3221.3	3221.3	-0.01
298	3164.	0.	-3153.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	39.	0.	0.	-3210.5	3210.5	-0.01
299	3153.	0.	-3142.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	38.	0.	0.	-3199.5	3199.5	-0.01
300	3142.	0.	-3131.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	38.	0.	0.	-3188.4	3188.4	-0.01
301	3131.	0.	-3120.	1.	0.	-1.	3.	-7.	0.	0.	0.	4.	-19.	-3.	0.	0.	-28.	0.	0.	0.	38.	0.	0.	-3177.2	3177.2	-0.01
302	3120.	0.	-3109.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-19.	-3.	0.	0.	-28.	0.	0.	0.	37.	0.	0.	-3165.9	3165.9	-0.01
303	3109.	0.	-3097.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-19.	-3.	0.	0.	-28.	0.	0.	0.	37.	0.	0.	-3154.5	3154.5	-0.01
304	3097.	0.	-3086.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-19.	-3.	0.	0.	-28.	0.	0.	0.	37.	0.	0.	-3143.0	3143.0	-0.01
305	3086.	0.	-3074.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-19.	-3.	0.	0.	-28.	0.	0.	0.	36.	0.	0.	-3131.4	3131.3	-0.01
306	3074.	0.	-3063.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-19.	-3.	0.	0.	-28.	0.	0.	0.	36.	0.	0.	-3119.6	3119.6	-0.01
307	3063.	0.	-3051.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-19.	-3.	0.	0.	-28.	0.	0.	0.	36.	0.	0.	-3107.8	3107.8	-0.01
308	3051.	0.	-3039.	1.	0.	-1.	3.	-6.	0.	0.	0.	5.	-18.	-3.	0.	0.	-28.	0.	0.	0.	35.	0.	0.	-3095.9	3095.9	-0.01
309	3039.	0.	-3027.	1.	0.	-1.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	35.	0.	0.	-3084.0	3084.0	-0.01
310	3027.	0.	-3015.	1.	0.	-1.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	35.	0.	0.	-3071.9	3071.9	-0.01
311	3015.	0.	-3003.	1.	0.	-1.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	34.	0.	0.	-3059.7	3059.7	-0.01
312	3003.	0.	-2991.	1.	0.	-1.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	34.	0.	0.	-3047.5	3047.5	-0.01
313	2991.	0.	-2979.	1.	0.	-1.	3.	-6.	0.	0.	0.	6.	-18.	-3.	0.	0.	-28.	0.	0.	0.	34.	0.	0.	-3035.1	3035.1	-0.01
314	2979.	0.	-2966.	1.	0.	-1.	3.	-6.	0.	0.	0.	7.	-18.	-3.	0.	0.	-28.	0.	0.	0.	33.	0.	0.	-3022.7	3022.7	-0.01
315	2966.	0.	-2953.	1.	0.	-2.	3.	-6.	0.	0.	0.	7.	-18.	-3.	0.	0.	-28.	0.	0.	0.	33.	0.	0.	-3010.2	3010.2	-0.01

316	2953.	0.	-2936.	2.	0.	-2.	7.	-13.	0.	0.	0.	9.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-3010.7	3010.7	-0.01
317	2936.	0.	-2919.	2.	0.	-2.	7.	-13.	0.	0.	0.	9.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2993.8	2993.8	-0.01
318	2919.	0.	-2903.	2.	0.	-2.	7.	-13.	0.	0.	0.	9.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2977.3	2977.3	-0.01
319	2903.	0.	-2887.	2.	0.	-2.	7.	-13.	0.	0.	0.	9.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2961.1	2961.1	-0.01
320	2887.	0.	-2871.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2945.3	2945.3	-0.01
321	2871.	0.	-2856.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2929.9	2929.9	-0.01
322	2856.	0.	-2841.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-22.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2914.8	2914.8	-0.01
323	2841.	0.	-2826.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-21.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2900.1	2900.1	-0.01
324	2826.	0.	-2812.	2.	0.	-2.	7.	-13.	0.	0.	0.	10.	-21.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2885.6	2885.6	-0.01
325	2812.	0.	-2798.	2.	0.	-2.	7.	-13.	0.	0.	0.	11.	-21.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2871.5	2871.5	-0.01
326	2798.	0.	-2784.	2.	0.	-1.	7.	-12.	0.	0.	0.	11.	-21.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2857.8	2857.7	-0.01
327	2784.	0.	-2771.	1.	0.	-1.	7.	-12.	0.	0.	0.	11.	-21.	-3.	0.	0.	-35.	0.	0.	0.	40.	0.	0.	-2844.3	2844.3	-0.01
328	2771.	0.	-2758.	1.	0.	-1.	7.	-12.	0.	0.	0.	11.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2831.1	2831.1	-0.01
329	2758.	0.	-2745.	1.	0.	-1.	7.	-12.	0.	0.	0.	11.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2818.2	2818.2	-0.01
330	2745.	0.	-2732.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2805.6	2805.6	-0.01
331	2732.	0.	-2720.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2793.3	2793.3	-0.01
332	2720.	0.	-2708.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2781.2	2781.2	-0.01
333	2708.	0.	-2697.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2769.4	2769.4	-0.01
334	2697.	0.	-2685.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2757.9	2757.9	0.00
335	2685.	0.	-2674.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-21.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2746.6	2746.6	-0.01
336	2674.	0.	-2663.	1.	0.	-1.	7.	-12.	0.	0.	0.	12.	-20.	-3.	0.	0.	-35.	0.	0.	0.	41.	0.	0.	-2735.6	2735.6	-0.01
337	2663.	0.	-2652.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2724.8	2724.8	-0.01
338	2652.	0.	-2642.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2714.2	2714.2	-0.01
339	2642.	0.	-2632.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2703.9	2703.9	-0.01
340	2632.	0.	-2622.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2693.8	2693.8	0.00
341	2622.	0.	-2612.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2683.9	2683.9	0.00
342	2612.	0.	-2602.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2674.2	2674.2	0.00
343	2602.	0.	-2593.	1.	0.	-1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2664.8	2664.8	0.00
344	2593.	0.	-2585.	1.	0.	1.	7.	-12.	0.	0.	0.	13.	-20.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2656.2	2656.2	-0.01
345	2585.	0.	-2587.	-1.	0.	11.	7.	-12.	0.	0.	0.	13.	-19.	-3.	0.	0.	-36.	0.	0.	0.	41.	0.	0.	-2657.9	2657.9	0.00
526	2587.	2044.	-4619.	-11.	3.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-4671.8	4671.8	0.00
527	4619.	0.	-4616.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-4657.3	4657.3	0.00
528	4616.	0.	-4612.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-4653.9	4653.9	0.00
529	4612.	0.	-4609.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-29.	0.	0.	0.	26.	0.	0.	-4650.6	4650.6	0.00
530	4609.	0.	-4606.	0.	0.	0.	0.	0.	0.	0.	0.	12.	-10.	-3.	0.	0.	-28.	0.	0.	0.	26.	0.	0.	-4647.5	4647.5	0.00
531	4606.	0.	-4609.	0.	0.	5.	0.	0.	0.	0.	0.	12.	-9.	-2.	0.	0.	-28.	0.	0.	0.	26.	0.	0.	-4649.2	4649.2	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Station 935

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
346	46.	0.	-46.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-2.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-59.3	59.3	0.00
347	46.	0.	-46.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-2.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-59.3	59.3	0.00
348	46.	0.	-47.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-2.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-59.5	59.5	0.00
349	47.	0.	-47.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-59.6	59.6	0.00
350	47.	0.	-47.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-59.8	59.8	0.00
351	47.	0.	-47.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-60.0	60.0	0.00
352	47.	0.	-48.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-60.2	60.2	0.00
353	48.	0.	-48.	0.	0.	0.	0.	0.	0.	0.	0.	8.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-60.3	60.3	0.00
354	48.	0.	-48.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-60.5	60.5	0.00
355	48.	0.	-48.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-60.7	60.7	0.00
356	48.	0.	-49.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-60.9	60.9	0.00

357	49.	0.	-49.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-61.1	61.1	0.00
358	49.	0.	-49.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-61.3	61.3	0.00
359	49.	0.	-49.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-61.5	61.5	0.00
360	49.	0.	-50.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-61.6	61.6	0.00
361	50.	0.	-50.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-61.8	61.8	0.00
362	50.	0.	-50.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-62.0	62.0	0.00
363	50.	0.	-50.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	-1.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-62.1	62.1	0.00
364	50.	0.	-51.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-62.3	62.3	0.00
365	51.	0.	-51.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-62.4	62.4	0.00
366	51.	0.	-51.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-11.	0.	0.	0.	5.	0.	0.	-62.6	62.6	0.00
367	51.	0.	-51.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-10.	0.	0.	0.	5.	0.	0.	-62.7	62.7	0.00
368	51.	0.	-172.	0.	0.	0.	74.	0.	0.	0.	0.	104.	-83.	-31.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-541.8	541.7	-0.09
369	172.	0.	-276.	0.	0.	0.	74.	0.	0.	0.	0.	96.	-90.	-32.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-653.9	653.8	-0.09
370	276.	0.	-380.	0.	0.	0.	74.	0.	0.	0.	0.	97.	-92.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-759.8	759.7	-0.09
371	380.	0.	-484.	0.	0.	0.	74.	0.	0.	0.	0.	98.	-92.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-864.2	864.1	-0.09
372	484.	0.	-587.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-968.2	968.1	-0.09
373	587.	0.	-691.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-1072.1	1072.0	-0.09
374	691.	0.	-794.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-1175.8	1175.7	-0.09
375	794.	0.	-898.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-1279.5	1279.4	-0.09
376	898.	0.	-1001.	0.	0.	0.	74.	0.	0.	0.	0.	99.	-93.	-33.	0.	0.	-256.	0.	0.	0.	312.	0.	0.	-1383.1	1383.0	-0.09
377	1001.	0.	-979.	0.	0.	0.	119.	-67.	0.	0.	0.	128.	-52.	-16.	0.	0.	-295.	0.	0.	0.	161.	0.	0.	-1409.4	1409.3	-0.03
378	979.	0.	-1006.	0.	0.	0.	119.	-63.	0.	0.	0.	165.	-58.	-18.	0.	0.	-296.	0.	0.	0.	178.	0.	0.	-1441.0	1441.0	-0.03
379	1006.	0.	-1059.	0.	0.	0.	119.	-62.	0.	0.	0.	180.	-63.	-19.	0.	0.	-297.	0.	0.	0.	195.	0.	0.	-1499.9	1499.9	-0.03
380	1059.	0.	-1128.	0.	0.	0.	119.	-61.	0.	0.	0.	184.	-67.	-20.	0.	0.	-298.	0.	0.	0.	212.	0.	0.	-1574.3	1574.3	-0.03
381	1128.	0.	-1207.	0.	0.	0.	119.	-62.	0.	0.	0.	182.	-70.	-22.	0.	0.	-298.	0.	0.	0.	229.	0.	0.	-1658.5	1658.5	-0.03
382	1207.	0.	-1293.	0.	0.	0.	119.	-62.	0.	0.	0.	177.	-72.	-23.	0.	0.	-299.	0.	0.	0.	246.	0.	0.	-1749.4	1749.3	-0.03
383	1293.	0.	-1385.	0.	0.	0.	119.	-63.	0.	0.	0.	169.	-74.	-24.	0.	0.	-300.	0.	0.	0.	264.	0.	0.	-1845.4	1845.3	-0.03
384	1385.	0.	-1481.	0.	0.	0.	119.	-63.	0.	0.	0.	161.	-75.	-25.	0.	0.	-301.	0.	0.	0.	281.	0.	0.	-1945.5	1945.5	-0.04
385	1481.	0.	-1581.	0.	0.	0.	119.	-64.	0.	0.	0.	151.	-77.	-26.	0.	0.	-301.	0.	0.	0.	298.	0.	0.	-2049.4	2049.3	-0.04
386	1581.	0.	-1685.	0.	0.	0.	119.	-65.	0.	0.	0.	141.	-78.	-27.	0.	0.	-302.	0.	0.	0.	316.	0.	0.	-2156.6	2156.6	-0.05
387	1685.	0.	-1792.	0.	0.	0.	119.	-66.	0.	0.	0.	130.	-79.	-28.	0.	0.	-303.	0.	0.	0.	333.	0.	0.	-2267.1	2267.1	-0.05
388	1792.	0.	-1902.	0.	0.	0.	119.	-67.	0.	0.	0.	119.	-80.	-29.	0.	0.	-303.	0.	0.	0.	351.	0.	0.	-2380.8	2380.7	-0.06
389	1902.	0.	-2016.	0.	0.	0.	119.	-68.	0.	0.	0.	108.	-80.	-29.	0.	0.	-304.	0.	0.	0.	368.	0.	0.	-2497.5	2497.4	-0.06
390	2016.	0.	-1978.	0.	0.	0.	24.	-30.	0.	0.	0.	14.	-12.	-7.	0.	0.	-85.	0.	0.	0.	59.	0.	0.	-2112.1	2112.1	-0.01
391	1978.	0.	-1945.	0.	0.	0.	24.	-30.	0.	0.	0.	15.	-12.	-6.	0.	0.	-85.	0.	0.	0.	62.	0.	0.	-2078.7	2078.7	-0.01
392	1945.	0.	-1917.	0.	0.	0.	24.	-29.	0.	0.	0.	16.	-12.	-6.	0.	0.	-85.	0.	0.	0.	65.	0.	0.	-2050.2	2050.2	-0.01
393	1917.	0.	-1893.	0.	0.	0.	24.	-29.	0.	0.	0.	17.	-12.	-6.	0.	0.	-85.	0.	0.	0.	68.	0.	0.	-2026.2	2026.2	-0.01
394	1893.	0.	-1874.	0.	0.	0.	24.	-29.	0.	0.	0.	18.	-12.	-6.	0.	0.	-85.	0.	0.	0.	71.	0.	0.	-2006.7	2006.7	-0.01
395	1874.	0.	-1859.	0.	0.	0.	24.	-28.	0.	0.	0.	19.	-12.	-6.	0.	0.	-85.	0.	0.	0.	75.	0.	0.	-1991.2	1991.2	-0.01
396	1859.	0.	-1847.	0.	0.	0.	24.	-28.	0.	0.	0.	19.	-13.	-6.	0.	0.	-85.	0.	0.	0.	78.	0.	0.	-1979.7	1979.7	-0.01
397	1847.	0.	-1840.	0.	0.	0.	24.	-28.	0.	0.	0.	19.	-13.	-6.	0.	0.	-85.	0.	0.	0.	81.	0.	0.	-1971.8	1971.8	-0.01
398	1840.	0.	-1835.	0.	0.	0.	24.	-28.	0.	0.	0.	20.	-13.	-6.	0.	0.	-85.	0.	0.	0.	84.	0.	0.	-1967.4	1967.4	-0.01
399	1835.	0.	-1833.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1889.5	1889.5	0.00
400	1833.	0.	-1831.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1887.5	1887.5	0.00
401	1831.	0.	-1829.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1885.6	1885.6	0.00
402	1829.	0.	-1827.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1883.8	1883.8	0.00
403	1827.	0.	-1826.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1881.9	1881.9	0.00
404	1826.	0.	-1824.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1880.2	1880.2	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Station 935

IOR	UPMN	UPTR	LOWR	UPMN	UPTR	LOWR	INCR	INCR	NONP	WSLD	WITH	REAE	BOD1	NH3-N	ORG-N	NCM	SOD	SOD	SOD	SOD	ALG	ALG	MAC	TOT	TOT

	ADV	ADV	ADV	DISP	DISP	DISP	IN	OUT	IN	IN	OUT	IN	DECA	DECA	DECA	DECA	BKGD	BOD1	ALG	NCM	PHOT	RESP	PHOT	OUT	IN
405	1824.	0.	-1822.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1878.4	1878.4	0.00
406	1822.	0.	-1820.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1876.7	1876.7	0.00
407	1820.	0.	-1819.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1875.0	1875.0	0.00
408	1819.	0.	-1817.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1873.4	1873.4	0.00
409	1817.	0.	-1816.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1871.8	1871.8	0.00
410	1816.	0.	-1814.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1870.2	1870.2	0.00
411	1814.	0.	-1812.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1868.7	1868.7	0.00
412	1812.	0.	-1811.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1867.2	1867.2	0.00
413	1811.	0.	-1809.	0.	0.	0.	11.	-13.	0.	0.	0.	8.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1865.7	1865.7	0.00
414	1809.	0.	-1808.	0.	0.	0.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1864.3	1864.3	0.00
415	1808.	0.	-1807.	0.	0.	0.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1862.9	1862.8	0.00
416	1807.	0.	-1805.	0.	0.	0.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1861.5	1861.5	0.00
417	1805.	0.	-1803.	0.	0.	-1.	11.	-13.	0.	0.	0.	9.	-5.	-2.	0.	0.	-35.	0.	0.	0.	35.	0.	0.	-1860.1	1860.1	0.00
418	1803.	0.	-1795.	1.	0.	0.	17.	-19.	0.	0.	0.	10.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1863.5	1863.5	0.00
419	1795.	0.	-1787.	0.	0.	0.	17.	-19.	0.	0.	0.	10.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1855.3	1855.3	0.00
420	1787.	0.	-1779.	0.	0.	0.	17.	-19.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1847.3	1847.3	0.00
421	1779.	0.	-1771.	0.	0.	0.	17.	-19.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1839.5	1839.5	0.00
422	1771.	0.	-1764.	0.	0.	0.	17.	-19.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1831.9	1831.9	0.00
423	1764.	0.	-1757.	0.	0.	0.	17.	-19.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1824.6	1824.6	0.00
424	1757.	0.	-1750.	0.	0.	0.	17.	-18.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1817.4	1817.4	0.00
425	1750.	0.	-1743.	0.	0.	0.	17.	-18.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1810.5	1810.5	0.00
426	1743.	0.	-1736.	0.	0.	0.	17.	-18.	0.	0.	0.	11.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1803.7	1803.7	0.00
427	1736.	0.	-1730.	0.	0.	0.	17.	-18.	0.	0.	0.	12.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1797.1	1797.1	0.00
428	1730.	0.	-1723.	0.	0.	0.	17.	-18.	0.	0.	0.	12.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1790.8	1790.7	0.00
429	1723.	0.	-1717.	0.	0.	-1.	17.	-18.	0.	0.	0.	12.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1784.6	1784.5	0.00
430	1717.	0.	-1702.	1.	0.	-9.	17.	-18.	0.	0.	0.	12.	-5.	-2.	0.	0.	-42.	0.	0.	0.	33.	0.	0.	-1778.7	1778.7	0.00
431	1702.	0.	-2703.	9.	0.	0.	0.	0.	0.	969.	0.	20.	-7.	-1.	0.	0.	-22.	0.	0.	0.	33.	0.	0.	-2733.4	2733.4	0.00
432	2703.	0.	-2725.	0.	0.	0.	0.	0.	0.	0.	0.	20.	-7.	-1.	0.	0.	-22.	0.	0.	0.	33.	0.	0.	-2755.7	2755.7	0.00
433	2725.	0.	-1428.	0.	0.	0.	1.	0.	0.	0.	-1316.	16.	-7.	-1.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-2773.7	2773.7	0.00
434	1428.	0.	-1446.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-7.	-1.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1476.1	1476.1	0.00
435	1446.	0.	-1463.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-7.	-1.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1494.0	1494.0	0.00
436	1463.	0.	-1481.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1511.5	1511.5	0.00
437	1481.	0.	-1498.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1528.6	1528.6	0.00
438	1498.	0.	-1514.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1545.3	1545.3	0.00
439	1514.	0.	-1531.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1561.6	1561.6	0.00
440	1531.	0.	-1547.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-7.	-2.	0.	0.	-22.	0.	0.	0.	32.	0.	0.	-1577.6	1577.6	0.00
441	1547.	0.	-1562.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-7.	-2.	0.	0.	-22.	0.	0.	0.	33.	0.	0.	-1593.2	1593.2	0.00
442	1562.	0.	-1577.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-7.	-2.	0.	0.	-23.	0.	0.	0.	33.	0.	0.	-1608.5	1608.5	0.00
443	1577.	0.	-1592.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-7.	-2.	0.	0.	-23.	0.	0.	0.	33.	0.	0.	-1623.5	1623.5	0.00
444	1592.	0.	-1607.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-7.	-2.	0.	0.	-23.	0.	0.	0.	33.	0.	0.	-1638.0	1638.0	0.00
445	1607.	0.	-1620.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1649.3	1649.3	0.00
446	1620.	0.	-1633.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1662.4	1662.4	0.00
447	1633.	0.	-1646.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1675.3	1675.3	0.00
448	1646.	0.	-1659.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1687.9	1687.9	0.00
449	1659.	0.	-1671.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1700.1	1700.1	0.00
450	1671.	0.	-1683.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1712.1	1712.1	0.00
451	1683.	0.	-1695.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1723.8	1723.8	0.00
452	1695.	0.	-1706.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1735.3	1735.3	0.00
453	1706.	0.	-1717.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1746.4	1746.4	0.00

454	1717.	0.	-1728.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	30.	0.	0.	-1757.3	1757.3	0.00
455	1728.	0.	-1739.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1768.0	1768.0	0.00
456	1739.	0.	-1749.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1778.4	1778.4	0.00
457	1749.	0.	-1759.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1788.5	1788.5	0.00
458	1759.	0.	-1769.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1798.4	1798.4	0.00
459	1769.	0.	-1779.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1808.1	1808.1	0.00
460	1779.	0.	-1788.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1817.5	1817.5	0.00
461	1788.	0.	-1798.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1826.7	1826.7	0.00
462	1798.	0.	-1807.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1835.7	1835.7	0.00
463	1807.	0.	-1815.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1844.4	1844.4	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Station 935

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
464	1815.	0.	-1824.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1852.9	1852.9	0.00
465	1824.	0.	-1832.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1861.3	1861.3	0.00
466	1832.	0.	-1840.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	29.	0.	0.	-1869.4	1869.4	0.00
467	1840.	0.	-1848.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1877.3	1877.3	0.00
468	1848.	0.	-1856.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1885.0	1885.0	0.00
469	1856.	0.	-1863.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1892.5	1892.5	0.00
470	1863.	0.	-1871.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1899.8	1899.8	0.00
471	1871.	0.	-1878.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1907.0	1906.9	0.00
472	1878.	0.	-1885.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1913.9	1913.9	0.00
473	1885.	0.	-1892.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1920.7	1920.7	0.00
474	1892.	0.	-1898.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1927.3	1927.3	0.00
475	1898.	0.	-1905.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1933.7	1933.7	0.00
476	1905.	0.	-1911.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1939.9	1939.9	0.00
477	1911.	0.	-1917.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	28.	0.	0.	-1946.0	1946.0	0.00
478	1917.	0.	-1923.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1951.9	1951.9	0.00
479	1923.	0.	-1929.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1957.7	1957.7	0.00
480	1929.	0.	-1934.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1963.3	1963.3	0.00
481	1934.	0.	-1940.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1968.7	1968.7	0.00
482	1940.	0.	-1945.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1974.0	1974.0	0.00
483	1945.	0.	-1950.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1979.1	1979.1	0.00
484	1950.	0.	-1955.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1984.1	1984.1	0.00
485	1955.	0.	-1960.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1989.0	1989.0	0.00
486	1960.	0.	-1965.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1993.7	1993.7	0.00
487	1965.	0.	-1969.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-1998.3	1998.3	0.00
488	1969.	0.	-1974.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2002.7	2002.7	0.00
489	1974.	0.	-1978.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	27.	0.	0.	-2007.0	2007.0	0.00
490	1978.	0.	-1982.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2011.2	2011.2	0.00
491	1982.	0.	-1986.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2015.3	2015.2	0.00
492	1986.	0.	-1990.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2019.2	2019.2	0.00
493	1990.	0.	-1994.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-6.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2023.0	2023.0	0.00
494	1994.	0.	-1998.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2026.7	2026.7	0.00
495	1998.	0.	-2001.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2030.2	2030.2	0.00
496	2001.	0.	-2005.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2033.7	2033.7	0.00
497	2005.	0.	-2008.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2037.0	2037.0	0.00
498	2008.	0.	-2011.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2040.2	2040.2	0.00
499	2011.	0.	-2015.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2043.4	2043.3	0.00
500	2015.	0.	-2018.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	26.	0.	0.	-2046.4	2046.4	0.00

501	2018.	0.	-2021.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2049.3	2049.3	0.00
502	2021.	0.	-2023.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2052.1	2052.1	0.00
503	2023.	0.	-2026.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2054.8	2054.8	0.00
504	2026.	0.	-2029.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2057.4	2057.4	0.00
505	2029.	0.	-2031.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2059.9	2059.9	0.00
506	2031.	0.	-2034.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2062.3	2062.3	0.00
507	2034.	0.	-2036.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2064.6	2064.6	0.00
508	2036.	0.	-2038.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2066.8	2066.8	0.00
509	2038.	0.	-2040.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2068.9	2068.9	0.00
510	2040.	0.	-2042.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2071.0	2070.9	0.00
511	2042.	0.	-2044.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	25.	0.	0.	-2072.9	2072.9	0.00
512	2044.	0.	-2046.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2074.8	2074.8	0.00
513	2046.	0.	-2048.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2076.5	2076.5	0.00
514	2048.	0.	-2050.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2078.2	2078.2	0.00
515	2050.	0.	-2051.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2079.9	2079.9	0.00
516	2051.	0.	-2053.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2081.4	2081.4	0.00
517	2053.	0.	-2054.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	24.	0.	0.	-2082.9	2082.9	0.00
518	2054.	0.	-2055.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	23.	0.	0.	-2083.9	2083.9	0.00
519	2055.	0.	-2056.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	23.	0.	0.	-2084.4	2084.4	0.00
520	2056.	0.	-2056.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	22.	0.	0.	-2084.3	2084.3	0.00
521	2056.	0.	-2055.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	22.	0.	0.	-2083.7	2083.7	0.00
522	2055.	0.	-2054.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	21.	0.	0.	-2082.5	2082.5	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Station 935

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
523	2054.	0.	-2052.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	20.	0.	0.	-2080.8	2080.8	0.00
524	2052.	0.	-2050.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	20.	0.	0.	-2078.6	2078.6	0.00
525	2050.	0.	-2044.	0.	0.	-3.	1.	0.	0.	0.	0.	5.	-5.	-2.	0.	0.	-21.	0.	0.	0.	19.	0.	0.	-2075.9	2075.9	0.00

LA-QUAL Model for Lake Penchant and Bayou Penchant (subsegments
Calibration Simulation for Lake Penchant and Bayou Penchant mode

INPUT/OUTPUT LOADING SUMMARY

	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER FLOW	30.781	16473.9	42639.9	0.0	4248.3	265.9	1484.2	0.0	0.0	0.0
INCREMENTAL INFLOW	14.380	6212.3	31122.7	0.0	2847.9	124.2	49.7	0.0	0.0	0.0
INCREMENTAL OUTFLOW	-11.800	-6368.3	-14210.2	0.0	-1751.9	-114.9	-230.9	0.0	0.0	0.0
WASTELOADS	5.295	1692.8	3283.3	0.0	1438.6	22.9	0.0	0.0	0.0	0.0
WITHDRAWLS	-29.846	-17497.2	-41664.1	0.0	-4830.7	-266.2	-297.7	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-8.810	-4609.0	-6432.0	0.0	-1287.1	-92.0	0.0	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		4.8	-666.2	0.0	-180.3	-2.2	5.3	0.0	0.0	0.0
DISPERSION THRU HDWTR BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	0.0	0.0	0.0					0.0
NATURAL REAERATION		10589.2								
DAM REAERATION		0.0								
BACKGROUND SOD		-27115.4								
BOD#1 DECAY		-14073.0	-14073.0							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY			0.0							
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY				0.0						
ORG-N DECAY		0.0			-484.8	484.8				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-1833.5				-423.4	423.4			

BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		36519.7				0.0	-1826.0	0.0	0.0	
ALGAE RESPIRATION		0.0				0.0		0.0	0.0	
ALGAE SETTLING		0.0							0.0	
MACRO PHOTOSYNTHESIS		0.0				0.0	0.0	0.0		
NCM DECAY		0.0								0.0
NCM SETTLING		0.0								0.0
TOTAL INPUTS	50.456	71492.6	77046.0	0.0	8534.7	897.8	1962.7	0.0	0.0	0.0
TOTAL OUTPUTS	-50.456	-71496.3	-77045.5	0.0	-8534.7	-898.7	-2354.6	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	-3.7	0.5	0.0	0.0	-0.9	-391.9	0.0	0.0	0.0

.....EXECUTION COMPLETED

Calibration output file for subsegments 120405/120406

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality
Input file is D:\LA TMDL 2006\Additional\TO95\TT_Models\Lake_deCade_Theriot_Hache\cal\L_Cadehatchtheriot_CAL0208.txt
Output produced at 17:04 on 02/22/2008
$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$
CARD TYPE      CONTROL TITLES
TITLE01        Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
TITLE02        Calibration Simulation for Lake de Cade Theriot and Hache model
CNTROL03   NO   SEQU                    <Warning: legacy control - line ignored>
CNTROL04  YES   METR
CNTROL05  YES   OXYG                     <Warning: legacy control - line ignored>
ENDATA01
$$$ DATA TYPE 2 (MODEL OPTIONS) $$$
CARD TYPE      MODEL OPTION
MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03   NO   CONSERVATIVE MATERIAL #1                    UNITS =
MODOPT04   NO   CONSERVATIVE MATERIAL #2                    UNITS =
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BOD1 BIOCHEMICAL OXYGEN DEMAND #1
MODOPT07   NO   BOD2 BIOCHEMICAL OXYGEN DEMAND #2
MODOPT08  YES   NITROGEN SERIES
MODOPT09   NO   PHOSPHORUS
MODOPT10   NO   CHLOROPHYLL A
MODOPT11   NO   MACROPHYTES
MODOPT12   NO   COLIFORMS
MODOPT13   NO   NONCONSERVATIVE MATERIAL                    UNITS =
ENDATA02
$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$
CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE
PROGRAM        HYDRAULIC CALCULATION METHOD      =        2.00000 (widths and depths)
PROGRAM        DISPERSION EQUATION               =        1.00000 (values entered as a constant)
PROGRAM        TIDE HEIGHT                       =        0.40000 meters
PROGRAM        HEADWATER EXCHANGE RATIO          =        1.00000
ENDATA03
$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$
 CARD TYPE     RATE CODE     THETA VALUE
ENDATA04
$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$
CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE
ENDATA05
$$$ DATA TYPE 6 (ALGAE CONSTANTS) $$$
CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE
ENDATA06
$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$
CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE
ENDATA07
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$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                        BEGIN      END   ELEM   REACH    ELEMS  BEGIN   END
CARD TYPE  REACH  ID  NAME                          REACH     REACH  LENGTH  LENGTH   PER RCH  ELEM  ELEM
                                          km        km     km     km            NUM   NUM
REACH ID    1   1  Lake Hache incl 937              20.90  TO  16.30  0.1000    4.60    46      1    46
REACH ID    2   2  Lake Hache incl 120406-B         16.30  TO  13.20  0.1000    3.10    31     47    77
REACH ID    3   3  L. Hache-405/406 boundary        13.20  TO   9.30  0.1000    3.90    39     78   116
REACH ID    4   4  405/406 boundary to L. Theriot    9.30  TO   6.70  0.1000    2.60    26    117   142
REACH ID    5   5  Lake Theriot                      2.90  TO   0.50  0.1000    2.40    24    143   166
REACH ID    6   6  Lake Theriot Discharge            0.50  TO   0.00  0.1000    0.50     5    167   171
REACH ID    7   7  L. Theriot to Mandalay WR Bndy    6.70  TO   2.30  0.1000    4.40    44    172   215
REACH ID    8   8  Mandalay WR Bndy to constriction  2.30  TO   1.50  0.1000    0.80     8    216   223
REACH ID    9   9  constriction to Lake Hache inflo  1.50  TO   0.60  0.1000    0.90     9    224   232
REACH ID   10  10  Lake Hache                        1.10  TO   0.10  0.1000    1.00    10    233   242
REACH ID   11  11  Lake Hache Discharge              0.10  TO   0.00  0.1000    0.10     1    243   243
REACH ID   12  12  Lake Hache inflow to 406 boundar  0.60  TO   0.00  0.1000    0.60     6    244   249
ENDATA08
$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID     WIDTH     WIDTH     WIDTH     DEPTH     DEPTH     DEPTH    SLOPE   MANNINGS
                        "A"       "B"       "C"       "D"       "E"       "F"              "N"
HYDR-1      1   1     0.000     0.000  1527.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      2   2     0.000     0.000  1029.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      3   3     0.000     0.000    25.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      4   4     0.000     0.000    10.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      5   5     0.000     0.000  2428.000     0.000     0.000     0.800   0.00010   1.460
HYDR-1      6   6     0.000     0.000    20.000     0.000     0.000     1.904   0.00010   1.460
HYDR-1      7   7     0.000     0.000    46.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      8   8     0.000     0.000   110.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1      9   9     0.000     0.000    30.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1     10  10     0.000     0.000   970.000     0.000     0.000     0.750   0.00010   1.460
HYDR-1     11  11     0.000     0.000    50.000     0.000     0.000     1.550   0.00010   1.460
HYDR-1     12  12     0.000     0.000    20.000     0.000     0.000     1.550   0.00010   1.460
ENDATA09
$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                      RANGE       "A"           "B"           "C"           "D"
HYDR        1   1     0.00      0.500         0.000         0.000         0.000
HYDR        2   2     0.00      0.500         0.000         0.000         0.000
HYDR        3   3     0.00      0.400         0.000         0.000         0.000
HYDR        4   4     0.00      0.300         0.000         0.000         0.000
HYDR        5   5     0.00      0.000         0.000         0.000         0.000
HYDR        6   6     0.00      0.200         0.000         0.000         0.000
HYDR        7   7     0.00      0.100         0.000         0.000         0.000
HYDR        8   8     0.00      0.100         0.000         0.000         0.000
HYDR        9   9     0.00      0.100         0.000         0.000         0.000
HYDR       10  10     0.00      0.000         0.000         0.000         0.000
HYDR       11  11     0.00      0.100         0.000         0.000         0.000
HYDR       12  12     0.00      0.100         0.000         0.000         0.000
ENDATA10
$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$
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CARD TYPE     REACH  ID      TEMP    SALIN      DO      NH3    NO3+2    PHOS    CHL A    MACRO
INITIAL         1   1      31.10    0.00     5.00    0.10    0.04     0.00    20.00    0.00
INITIAL         2   2      31.10    0.00     5.00    0.10    0.04     0.00    20.00    0.00
INITIAL         3   3      31.10    0.00     5.00    0.10    0.04     0.00    20.00    0.00
INITIAL         4   4      31.10    0.00     5.00    0.10    0.04     0.00    53.00    0.00
INITIAL         5   5      31.10    0.00     5.00    0.10    0.04     0.00    53.00    0.00
INITIAL         6   6      31.10    0.00     5.00    0.10    0.04     0.00    53.00    0.00
INITIAL         7   7      31.10    0.00     5.00    0.10    0.04     0.00    53.00    0.00
INITIAL         8   8      31.10    0.00     5.00    0.10    0.04     0.00    53.00    0.00
INITIAL         9   9      31.10    0.00     5.00    0.10    0.04     0.00    53.00    0.00
INITIAL        10  10      31.10    0.00     5.00    0.10    0.04     0.00    94.00    0.00
INITIAL        11  11      31.10    0.00     5.00    0.10    0.04     0.00    94.00    0.00
INITIAL        12  12      31.10    0.00     5.00    0.10    0.04     0.00    94.00    0.00
ENDATA11
$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                                  BOD    ANAER                    BOD2    ANAER
CARD    RCH  RCH  K2              K2      K2      K2   BKGRND     BOD     BOD     CONV     BOD2     BOD2     BOD2     CONV     BOD2
TYPE    NUM   ID  OPT            "A"     "B"     "C"     SOD    DECAY    SETT   TO SOD    DECAY    DECAY    SETT   TO SOD    DECAY
                                        g/m²/d  per day    m/d            per day  per day     m/d            per day
COEFF-1   1   1  20 K2=a/D       0.930   0.000   0.000   1.200   0.130   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   2   2  20 K2=a/D       0.930   0.000   0.000   1.400   0.130   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   3   3   3 OCONNER-DOBB  0.000   0.000   0.000   2.500   0.310   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   4   4   3 OCONNER-DOBB  0.000   0.000   0.000   2.000   0.310   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   5   5  20 K2=a/D       0.930   0.000   0.000   2.000   0.060   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   6   6   3 OCONNER-DOBB  0.000   0.000   0.000   2.000   0.130   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   7   7   3 OCONNER-DOBB  0.000   0.000   0.000   2.000   0.310   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   8   8   3 OCONNER-DOBB  0.000   0.000   0.000   2.000   0.310   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   9   9   3 OCONNER-DOBB  0.000   0.000   0.000   2.000   0.310   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  10  10  20 K2=a/D       0.930   0.000   0.000   2.000   0.010   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  11  11   3 OCONNER-DOBB  0.000   0.000   0.000   2.000   0.310   0.000   0.000   0.000   0.000   0.000   0.000   0.000
COEFF-1  12  12   3 OCONNER-DOBB  0.000   0.000   0.000   2.000   0.310   0.000   0.000   0.000   0.000   0.000   0.000   0.000
ENDATA12
$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$
CARD TYPE     REACH  ID      ORG-N    ORG-N   ORGN CONV     NH3      NH3     PHOS    DENIT
                            DECA     SETT  TO NH3 SRCE    DECA     SRCE     SRCE     RATE
COEFF-2         1   1      0.003    0.000    0.000   0.200    0.000    0.000    0.000
COEFF-2         2   2      0.003    0.000    0.000   0.200    0.000    0.000    0.000
COEFF-2         3   3      0.010    0.000    0.000   0.200    0.000    0.000    0.000
COEFF-2         4   4      0.010    0.000    0.000   0.200    0.000    0.000    0.000
COEFF-2         5   5      0.010    0.000    0.000   0.200    0.000    0.000    0.000
COEFF-2         6   6      0.010    0.000    0.000   0.200    0.000    0.000    0.000
COEFF-2         7   7      0.010    0.000    0.000   0.200    0.000    0.000    0.000
COEFF-2         8   8      0.010    0.000    0.000   0.200    0.000    0.000    0.000
COEFF-2         9   9      0.010    0.000    0.000   0.200    0.000    0.000    0.000
COEFF-2        10  10      0.003    0.000    0.000   0.200    0.000    0.000    0.000
COEFF-2        11  11      0.010    0.000    0.000   0.200    0.000    0.000    0.000
COEFF-2        12  12      0.010    0.000    0.000   0.200    0.000    0.000    0.000
ENDATA13
$$$ DATA TYPE 14 (ALGAE AND MACROPHYTE COEFFICIENTS) $$$
CARD TYPE     REACH  ID     SECCHI   ALGAE:    ALGAE   ALG CONV    ALGAE    ALGAE    MACRO    MACRO
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                    DEPTH    CHL A    SETT    TO SOD     GROW     RESP     GROW     RESP   SHADING
ENDATA14
$$$ DATA TYPE 15 (COLIFORM AND NONCONSERVATIVE COEFFICIENTS) $$$
CARD TYPE     REACH  ID   COLIFORM      NCM      NCM   NCM CONV
                  DIE-OFF    DECAY     SETT    TO SOD
ENDATA15
$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$
CARD TYPE     REACH  ID      OUTFLOW     INFLOW     TEMP    SALIN     CM-I    CM-II   IN/DIST  OUT/DIST
INCR-1          1   1     -0.10000    2.98740    31.13     0.00     0.00     0.00   0.64943  -0.02174
INCR-1          2   2    -13.30000    2.98740    31.13     0.00     0.00     0.00   0.96368  -4.29032
INCR-1          3   3      0.00000    0.08500    31.13     0.00     0.00     0.00   0.02179   0.00000
INCR-1          4   4      0.00000    0.00000     0.00     0.00     0.00     0.00   0.00000   0.00000
INCR-1          5   5      0.00000    0.48000    31.13     0.00     0.00     0.00   0.20000   0.00000
INCR-1          6   6      0.00000    0.02000    31.13     0.00     0.00     0.00   0.04000   0.00000
INCR-1          7   7      0.00000    0.00000     0.00     0.00     0.00     0.00   0.00000   0.00000
INCR-1          8   8      0.00000    0.00000     0.00     0.00     0.00     0.00   0.00000   0.00000
INCR-1          9   9      0.00000    0.00000     0.00     0.00     0.00     0.00   0.00000   0.00000
INCR-1         10  10      0.00000    0.09810    31.13     0.00     0.00     0.00   0.09810   0.00000
INCR-1         11  11      0.00000    0.01420    31.13     0.00     0.00     0.00   0.14200   0.00000
INCR-1         12  12      0.00000    0.00000     0.00     0.00     0.00     0.00   0.00000   0.00000
ENDATA16
$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$
CARD TYPE     REACH  ID        DO      BOD    ORG-N    NH3-N    NO3-N    BOD#2
INCR-2          1   1      5.00    28.00     2.00     1.00     0.04     0.00
INCR-2          2   2      5.00    45.00     2.00     1.00     0.04     0.00
INCR-2          3   3      5.00    60.00     6.00     1.00     0.04     0.00
INCR-2          4   4      0.00     0.00     0.00     0.00     0.00     0.00
INCR-2          5   5      5.00    45.00     2.00     1.00     0.04     0.00
INCR-2          6   6      5.00    45.00     2.00     1.00     0.04     0.00
INCR-2          7   7      0.00     0.00     0.00     0.00     0.00     0.00
INCR-2          8   8      0.00     0.00     0.00     0.00     0.00     0.00
INCR-2          9   9      0.00     0.00     0.00     0.00     0.00     0.00
INCR-2         10  10      5.00    60.00     2.40     1.00     0.04     0.00
INCR-2         11  11      5.00    45.00     2.00     1.00     0.04     0.00
INCR-2         12  12      0.00     0.00     0.00     0.00     0.00     0.00
ENDATA17
$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
 CARD TYPE     REACH  ID       PHOS    CHL A     COLI      NCM
ENDATA18
$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$
CARD TYPE     REACH  ID      BOD#1    ORG-N     COLI      NCM       DO    BOD#2
NONPOINT        1   1       0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT        2   2       0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT        3   3       0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT        4   4       0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT        5   5       0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT        6   6       0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT        7   7       0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT        8   8       0.00     0.00     0.00     0.00     0.00     0.00
NONPOINT        9   9       0.00     0.00     0.00     0.00     0.00     0.00
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NONPOINT      10  10     0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      11  11     0.00    0.00    0.00    0.00    0.00    0.00
NONPOINT      12  12     0.00    0.00    0.00    0.00    0.00    0.00
ENDATA19
$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$
CARD TYPE    ELEMENT  NAME              UNIT    FLOW    FLOW   TEMP   SALIN    CM-I    CM-II
                                        m³/s    cfs   deg C    ppt
HDWTR-1        1    Lake de Cade        0  11.21353  395.958   31.10    0.00    0.000    0.000  0.00
HDWTR-1      143    Lake Theriot        0   0.00971   0.343   31.10    0.00    0.000    0.000  0.00
HDWTR-1      233    Lake Hache          0   0.00100   0.035   31.10    0.00    0.000    0.000  0.00
ENDATA20
$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$
CARD TYPE    ELEMENT  NAME                    DO    BOD#1    ORG-N    NH3-N    NO3-N    BOD#2
                                            mg/L     mg/L     mg/L     mg/L     mg/L     mg/L
HDWTR-2        1    Lake de Cade            6.50     2.72     0.80     0.10     0.04     0.00
HDWTR-2      143    Lake Theriot            6.90     2.72     0.90     0.10     0.04     0.00
HDWTR-2      233    Lake Hache              8.70    60.00     2.10     0.10     0.04     0.00
ENDATA21
$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
CARD TYPE    ELEMENT  NAME                   PHOS    CHL A     COLI      NCM
                                             mg/L     mg/L     mg/L     mg/L
ENDATA22
$$$ DATA TYPE 23 (JUNCTION DATA) $$$
CARD TYPE  JUNCTION  UPSTRM    RIVER    NAME
        ELEMENT  ELEMENT    KILOM
JUNCTION      172    142      6.70  Lake Theriot - Minors Canal
JUNCTION      244    232      0.60  Lake Hache - Minors Canal
ENDATA23
$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$
CARD TYPE  ELEMENT   RKILO  NAME                FLOW      FLOW     FLOW   TEMP   SALIN    CM-I    CM-II
                                                m³/s      cfs      MGD   deg C    ppt
WSTLD-1      23     18.70  LAG480431          0.00011   0.00388   0.003   31.10    0.00    0.000    0.000
ENDATA24
$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                % BOD                    %
CARD TYPE    ELEMENT  NAME                    DO      BOD     RMVL    ORG-N    NH3-N   NITRIF    NO3-N    BOD#2
                                            mg/L     mg/L     mg/L     mg/L     mg/L     mg/L
WSTLD-2        23    LAG480431               5.00    45.00     0.00     0.80     0.10     0.00     0.00     0.00
ENDATA25
$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
CARD TYPE    ELEMENT  NAME                   PHOS    CHL A     COLI      NCM
                                            mg/L     mg/L     mg/L     mg/L
ENDATA26
$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$
CARD TYPE    CONSTITUENT                CONCENTRATION
LOWER BC     TEMPERATURE                   32.400    deg C
LOWER BC     SALINITY                       0.000    ppt
LOWER BC     CONSERVATIVE MATERIAL I        0.000
LOWER BC     CONSERVATIVE MATERIAL II       0.000
LOWER BC     DISSOLVED OXYGEN               6.100    mg/L
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LOWER BC    BIOCHEMICAL OXYGEN DEMAND          4.700    mg/L
LOWER BC    ORGANIC NITROGEN                   0.000    mg/L
LOWER BC    AMMONIA NITROGEN                   0.100    mg/L
LOWER BC    NITRATE + NITRITE                  0.040    mg/L
LOWER BC    PHOSPHORUS                         0.000    mg/L
LOWER BC    CHLOROPHYLL A                      0.094    µg/L
LOWER BC    COLIFORM                           0.000    #/100 mL
LOWER BC    NONCONSERVATIVE MATERIAL           0.000
ENDATA27
$$$ DATA TYPE 28 (DAM DATA) $$$
CARD TYPE    ELEMENT   NAME          EQN    "A"    "B"    "H"
ENDATA28
$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$
CARD TYPE     PARAMETER    COL 1    COL 2    COL 3    COL 4    COL 5    COL 6    COL 7    COL 8
ENDATA29
$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$
NUMBER OF PLOTS =  3
NUMBER OF REACHES IN PLOT 1 =   8
PLOT RCH  1  2  3  4  7  8  9 12
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH  5  6
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH 10 11
ENDATA30
$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 Lakedecade.OVL          :Lake Decade and Minors C MS
OVERLAY 2 LakeTheriot.OVL         :Lake Theriot and Minors C MS
OVERLAY 3 LakeHache.OVL           :Lake Hache and Minors C MS
ENDATA31
   .....NO ERRORS DETECTED IN INPUT DATA
   .....HYDRAULIC CALCULATIONS COMPLETED
   .....TRIDIAGONAL MATRIX TERMS INITIALIZED
   .....OXYGEN DEPENDENT RATES CONVERGENT IN   7 ITERATIONS
   .....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING:  NEGATIVE CONCENTRATIONS SET TO ZERO FOR Nitrate+Nitrite Nitrogen
   .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
   .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12
   .....GRAPHICS DATA FOR PLOT 3 WRITTEN TO UNIT 13
INTERMEDIATE REPORT
Dissolved Oxygen                    Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
  mg/L                              Calibration Simulation for Lake de Cade Theriot and Hache model
 ID  RCH  ELEM      +0      +1      +2      +3      +4      +5      +6      +7      +8      +9
  1   1    1     6.49    6.49    6.49    6.49    6.49    6.49    6.49    6.50    6.50    6.50
  1   1   11     6.50    6.51    6.51    6.51    6.51    6.52    6.52    6.52    6.52    6.53
  1   1   21     6.53    6.53    6.53    6.53    6.53    6.53    6.54    6.54    6.54    6.54
  1   1   31     6.54    6.54    6.54    6.54    6.54    6.54    6.54    6.54    6.54    6.54
  1   1   41     6.54    6.54    6.54    6.54    6.53    6.51
  2   2   47     6.47    6.43    6.38    6.33    6.28    6.22    6.17    6.11    6.05    5.99
  2   2   57     5.93    5.87    5.81    5.75    5.69    5.63    5.57    5.51    5.45    5.39
  2   2   67     5.33    5.27    5.22    5.16    5.10    5.05    5.00    4.95    4.91    4.88
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2	2	77	4.85									
3	3	78	4.83	4.79	4.75	4.71	4.67	4.64	4.60	4.57	4.54	4.51
3	3	88	4.48	4.45	4.42	4.39	4.37	4.34	4.32	4.30	4.28	4.26
3	3	98	4.24	4.23	4.21	4.20	4.18	4.17	4.16	4.15	4.14	4.13
3	3	108	4.12	4.11	4.11	4.10	4.10	4.10	4.09	4.09	4.09	
4	4	117	4.10	4.11	4.12	4.13	4.14	4.15	4.16	4.17	4.18	4.19
4	4	127	4.20	4.21	4.22	4.23	4.24	4.25	4.26	4.27	4.28	4.28
4	4	137	4.29	4.30	4.31	4.32	4.33	4.35				
7	7	172	4.67	4.68	4.68	4.68	4.68	4.69	4.69	4.69	4.70	4.70
7	7	182	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.76	4.77	4.78
7	7	192	4.79	4.81	4.82	4.83	4.84	4.85	4.86	4.88	4.89	4.90
7	7	202	4.92	4.93	4.95	4.96	4.97	4.99	5.01	5.02	5.04	5.05
7	7	212	5.07	5.09	5.10	5.12						
8	8	216	5.16	5.19	5.23	5.27	5.31	5.35	5.39	5.44		
9	9	224	5.46	5.48	5.51	5.55	5.59	5.63	5.68	5.73	5.79	
12	12	244	5.87	5.89	5.89	5.89	5.87	5.84				
5	5	143	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66
5	5	153	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66	6.66
5	5	163	6.66	6.66	6.66	6.66						
6	6	167	6.80	6.91	7.01	7.02	6.48					
10	10	233	8.67	8.68	8.68	8.68	8.68	8.69	8.69	8.69	8.69	8.66
11	11	243	6.86									

INTERMEDIATE REPORT

Effective BOD — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.72	2.73	2.73	2.73	2.73	2.73	2.74	2.74	2.74	2.74
1	1	11	2.74	2.74	2.74	2.74	2.74	2.75	2.75	2.75	2.75	2.75
1	1	21	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.76
1	1	31	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
1	1	41	2.76	2.76	2.77	2.78	2.81	2.88				
2	2	47	3.06	3.26	3.45	3.64	3.83	4.02	4.20	4.39	4.57	4.74
2	2	57	4.92	5.09	5.26	5.42	5.59	5.75	5.90	6.06	6.21	6.36
2	2	67	6.51	6.65	6.79	6.92	7.05	7.18	7.29	7.40	7.50	7.57
2	2	77	7.62									
3	3	78	7.61	7.59	7.58	7.56	7.54	7.53	7.51	7.50	7.48	7.47
3	3	88	7.45	7.44	7.42	7.41	7.39	7.38	7.36	7.35	7.33	7.32
3	3	98	7.30	7.29	7.28	7.26	7.25	7.24	7.22	7.21	7.20	7.18
3	3	108	7.17	7.16	7.14	7.13	7.12	7.10	7.09	7.08	7.07	
4	4	117	7.05	7.03	7.02	7.00	6.98	6.97	6.95	6.93	6.92	6.90
4	4	127	6.88	6.87	6.85	6.83	6.82	6.80	6.79	6.77	6.75	6.74
4	4	137	6.72	6.71	6.69	6.67	6.66	6.64				
7	7	172	6.37	6.31	6.25	6.19	6.13	6.07	6.01	5.96	5.90	5.84
7	7	182	5.79	5.73	5.67	5.62	5.57	5.51	5.46	5.41	5.35	5.30
7	7	192	5.25	5.20	5.15	5.10	5.05	5.00	4.96	4.91	4.86	4.81
7	7	202	4.77	4.72	4.68	4.63	4.59	4.54	4.50	4.46	4.41	4.37
7	7	212	4.33	4.29	4.25	4.20						
8	8	216	4.11	4.01	3.92	3.83	3.75	3.66	3.58	3.50		
9	9	224	3.48	3.46	3.43	3.41	3.39	3.37	3.35	3.33	3.31	

12	12	244	3.78	3.77	3.75	3.73	3.72	3.72				
5	5	143	3.64	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
5	5	153	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
5	5	163	3.68	3.68	3.68	3.69						
6	6	167	3.97	4.22	4.46	4.74	5.30					
10	10	233	26.12	25.14	24.91	24.82	24.77	24.75	24.74	24.73	24.72	21.46
11	11	243	11.94									

INTERMEDIATE REPORT

Biochemical Oxygen Demand — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.72	2.73	2.73	2.73	2.73	2.73	2.74	2.74	2.74	2.74
1	1	11	2.74	2.74	2.74	2.74	2.74	2.75	2.75	2.75	2.75	2.75
1	1	21	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.76
1	1	31	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
1	1	41	2.76	2.76	2.77	2.78	2.81	2.88				
2	2	47	3.06	3.26	3.45	3.64	3.83	4.02	4.20	4.39	4.57	4.74
2	2	57	4.92	5.09	5.26	5.42	5.59	5.75	5.90	6.06	6.21	6.36
2	2	67	6.51	6.65	6.79	6.92	7.05	7.18	7.29	7.40	7.50	7.57
2	2	77	7.62									
3	3	78	7.61	7.59	7.58	7.56	7.54	7.53	7.51	7.50	7.48	7.47
3	3	88	7.45	7.44	7.42	7.41	7.39	7.38	7.36	7.35	7.33	7.32
3	3	98	7.30	7.29	7.28	7.26	7.25	7.24	7.22	7.21	7.20	7.18
3	3	108	7.17	7.16	7.14	7.13	7.12	7.10	7.09	7.08	7.07	
4	4	117	7.05	7.03	7.02	7.00	6.98	6.97	6.95	6.93	6.92	6.90
4	4	127	6.88	6.87	6.85	6.83	6.82	6.80	6.79	6.77	6.75	6.74
4	4	137	6.72	6.71	6.69	6.67	6.66	6.64				
7	7	172	6.37	6.31	6.25	6.19	6.13	6.07	6.01	5.96	5.90	5.84
7	7	182	5.79	5.73	5.67	5.62	5.57	5.51	5.46	5.41	5.35	5.30
7	7	192	5.25	5.20	5.15	5.10	5.05	5.00	4.96	4.91	4.86	4.81
7	7	202	4.77	4.72	4.68	4.63	4.59	4.54	4.50	4.46	4.41	4.37
7	7	212	4.33	4.29	4.25	4.20						
8	8	216	4.11	4.01	3.92	3.83	3.75	3.66	3.58	3.50		
9	9	224	3.48	3.46	3.43	3.41	3.39	3.37	3.35	3.33	3.31	
12	12	244	3.78	3.77	3.75	3.73	3.72	3.72				
5	5	143	3.64	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
5	5	153	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
5	5	163	3.68	3.68	3.68	3.69						
6	6	167	3.97	4.22	4.46	4.74	5.30					
10	10	233	26.12	25.14	24.91	24.82	24.77	24.75	24.74	24.73	24.72	21.46
11	11	243	11.94									

INTERMEDIATE REPORT

Organic Nitrogen — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.81	0.82	0.82	0.83	0.84	0.84	0.85	0.85	0.86	0.86
1	1	11	0.87	0.87	0.88	0.89	0.89	0.90	0.90	0.91	0.91	0.92
1	1	21	0.92	0.92	0.93	0.93	0.94	0.94	0.95	0.95	0.96	0.96
1	1	31	0.97	0.97	0.97	0.98	0.98	0.99	0.99	0.99	1.00	1.00
1	1	41	1.01	1.01	1.01	1.02	1.02	1.03				

2	2	47	1.03	1.04	1.04	1.05	1.06	1.06	1.07	1.08	1.09	1.09
2	2	57	1.10	1.11	1.12	1.12	1.13	1.14	1.15	1.16	1.17	1.18
2	2	67	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28
2	2	77	1.29									
3	3	78	1.29	1.29	1.29	1.29	1.30	1.30	1.30	1.30	1.31	1.31
3	3	88	1.31	1.31	1.32	1.32	1.32	1.32	1.33	1.33	1.33	1.33
3	3	98	1.34	1.34	1.34	1.34	1.35	1.35	1.35	1.35	1.36	1.36
3	3	108	1.36	1.36	1.37	1.37	1.37	1.37	1.38	1.38	1.38	
4	4	117	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
4	4	127	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
4	4	137	1.38	1.38	1.38	1.38	1.38	1.38				
7	7	172	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
7	7	182	1.32	1.32	1.32	1.32	1.31	1.31	1.31	1.31	1.31	1.31
7	7	192	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
7	7	202	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
7	7	212	1.31	1.31	1.31	1.31						
8	8	216	1.31	1.30	1.30	1.30	1.30	1.30	1.30	1.30		
9	9	224	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	
12	12	244	1.31	1.31	1.31	1.31	1.31	1.29				
5	5	143	0.84	0.84	0.84	0.83	0.83	0.83	0.83	0.83	0.83	0.83
5	5	153	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
5	5	163	0.83	0.83	0.83	0.83						
6	6	167	0.84	0.85	0.86	0.88	1.00					
10	10	233	1.84	1.83	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.74
11	11	243	1.53									

INTERMEDIATE REPORT

Ammonia Nitrogen — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.09	0.09	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07
1	1	11	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06
1	1	21	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
1	1	31	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
1	1	41	0.06	0.06	0.06	0.06	0.06	0.06				
2	2	47	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08
2	2	57	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10
2	2	67	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11
2	2	77	0.11									
3	3	78	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	88	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	98	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
3	3	108	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	
4	4	117	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11
4	4	127	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
4	4	137	0.11	0.11	0.11	0.11	0.11	0.11				
7	7	172	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10
7	7	182	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
7	7	192	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
7	7	202	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
7	7	212	0.09	0.09	0.09	0.09						

8	8	216	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08		
9	9	224	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
12	12	244	0.08	0.08	0.08	0.08	0.08	0.08				
5	5	143	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
5	5	153	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
5	5	163	0.04	0.04	0.04	0.04						
6	6	167	0.05	0.05	0.06	0.07	0.08					
10	10	233	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
11	11	243	0.10									

INTERMEDIATE REPORT

Nitrate+Nitrite Nitrogen — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	41	0.00	0.00	0.00	0.00	0.00	0.00				
2	2	47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	77	0.00									
3	3	78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	4	117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	137	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	212	0.00	0.00	0.00	0.00						
8	8	216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9	9	224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	244	0.00	0.00	0.00	0.00	0.00	0.00				
5	5	143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	163	0.00	0.00	0.00	0.00						
6	6	167	0.00	0.00	0.00	0.00	0.00					
10	10	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	243	0.00									

INTERMEDIATE REPORT

Total Nitrogen — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

mg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.93	0.92	0.91	0.91	0.92	0.92	0.92	0.93	0.93	0.93
1	1	11	0.94	0.94	0.95	0.95	0.95	0.96	0.96	0.97	0.97	0.98
1	1	21	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.01	1.01	1.02

1	1	31	1.02	1.03	1.03	1.04	1.04	1.04	1.05	1.05	1.06	1.06
1	1	41	1.06	1.07	1.07	1.07	1.08	1.08				
2	2	47	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18
2	2	57	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28
2	2	67	1.29	1.30	1.31	1.32	1.34	1.35	1.36	1.37	1.38	1.39
2	2	77	1.40									
3	3	78	1.40	1.40	1.40	1.41	1.41	1.41	1.41	1.42	1.42	1.42
3	3	88	1.42	1.43	1.43	1.43	1.43	1.44	1.44	1.44	1.45	1.45
3	3	98	1.45	1.45	1.46	1.46	1.46	1.46	1.47	1.47	1.47	1.47
3	3	108	1.48	1.48	1.48	1.48	1.49	1.49	1.49	1.49	1.50	
4	4	117	1.50	1.50	1.50	1.50	1.50	1.49	1.49	1.49	1.49	1.49
4	4	127	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
4	4	137	1.49	1.49	1.49	1.49	1.49	1.49				
7	7	172	1.43	1.43	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
7	7	182	1.42	1.42	1.42	1.42	1.41	1.41	1.41	1.41	1.41	1.41
7	7	192	1.41	1.41	1.41	1.41	1.41	1.41	1.40	1.40	1.40	1.40
7	7	202	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.39
7	7	212	1.39	1.39	1.39	1.39						
8	8	216	1.39	1.39	1.39	1.39	1.38	1.38	1.38	1.38		
9	9	224	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	
12	12	244	1.39	1.39	1.39	1.39	1.39	1.37				
5	5	143	0.89	0.88	0.88	0.87	0.87	0.87	0.87	0.87	0.87	0.87
5	5	153	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
5	5	163	0.87	0.87	0.87	0.87						
6	6	167	0.89	0.91	0.92	0.95	1.08					
10	10	233	1.88	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.78
11	11	243	1.63									

INTERMEDIATE REPORT

Chlorophyll a — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

µg/L — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
1	1	11	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
1	1	21	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
1	1	31	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
1	1	41	20.00	20.00	20.00	20.00	20.00	20.00				
2	2	47	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
2	2	57	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
2	2	67	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
2	2	77	20.00									
3	3	78	20.85	21.69	22.54	23.38	24.23	25.08	25.92	26.77	27.62	28.46
3	3	88	29.31	30.15	31.00	31.85	32.69	33.54	34.38	35.23	36.08	36.92
3	3	98	37.77	38.62	39.46	40.31	41.15	42.00	42.85	43.69	44.54	45.38
3	3	108	46.23	47.08	47.92	48.77	49.62	50.46	51.31	52.15	53.00	
4	4	117	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
4	4	127	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
4	4	137	53.00	53.00	53.00	53.00	53.00	53.00				
7	7	172	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
7	7	182	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
7	7	192	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00

7	7	202	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
7	7	212	53.00	53.00	53.00	53.00						
8	8	216	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00		
9	9	224	57.56	62.11	66.67	71.22	75.78	80.33	84.89	89.44	94.00	
12	12	244	78.35	62.70	47.05	31.40	15.74	0.09				
5	5	143	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
5	5	153	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
5	5	163	53.00	53.00	53.00	53.00						
6	6	167	53.00	53.00	53.00	53.00	53.00					
10	10	233	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00
11	11	243	94.00									

INTERMEDIATE REPORT

Temperature — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

deg C — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
1	1	11	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
1	1	21	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
1	1	31	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
1	1	41	31.10	31.10	31.10	31.10	31.10	31.10				
2	2	47	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
2	2	57	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
2	2	67	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
2	2	77	31.10									
3	3	78	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
3	3	88	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
3	3	98	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
3	3	108	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	
4	4	117	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
4	4	127	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
4	4	137	31.10	31.10	31.10	31.10	31.10	31.10				
7	7	172	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
7	7	182	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
7	7	192	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
7	7	202	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
7	7	212	31.10	31.10	31.10	31.10						
8	8	216	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10		
9	9	224	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	
12	12	244	31.32	31.53	31.75	31.97	32.18	32.40				
5	5	143	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
5	5	153	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
5	5	163	31.10	31.10	31.10	31.10						
6	6	167	31.10	31.10	31.10	31.10	31.10					
10	10	233	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10	31.10
11	11	243	31.10									

INTERMEDIATE REPORT

Salinity — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

ppt — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	41	0.00	0.00	0.00	0.00	0.00	0.00				
2	2	47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	77	0.00									
3	3	78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	4	117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	137	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	212	0.00	0.00	0.00	0.00						
8	8	216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9	9	224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	244	0.00	0.00	0.00	0.00	0.00	0.00				
5	5	143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	163	0.00	0.00	0.00	0.00						
6	6	167	0.00	0.00	0.00	0.00	0.00					
10	10	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	243	0.00									

INTERMEDIATE REPORT

River Distance — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

km — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	21.	21.	21.	20.	20.	20.	20.	20.	20.	20.
1	1	11	20.	20.	20.	19.	19.	19.	19.	19.	19.	19.
1	1	21	19.	19.	19.	18.	18.	18.	18.	18.	18.	18.
1	1	31	18.	18.	18.	17.	17.	17.	17.	17.	17.	17.
1	1	41	17.	17.	17.	16.	16.	16.				
2	2	47	16.	16.	16.	16.	16.	16.	16.	15.	15.	15.
2	2	57	15.	15.	15.	15.	15.	15.	15.	14.	14.	14.
2	2	67	14.	14.	14.	14.	14.	14.	14.	13.	13.	13.
2	2	77	13.									
3	3	78	13.	13.	13.	13.	13.	13.	12.	12.	12.	12.
3	3	88	12.	12.	12.	12.	12.	12.	11.	11.	11.	11.
3	3	98	11.	11.	11.	11.	11.	11.	10.	10.	10.	10.
3	3	108	10.	10.	10.	10.	10.	10.	9.	9.	9.	
4	4	117	9.	9.	9.	9.	9.	9.	9.	8.	8.	8.
4	4	127	8.	8.	8.	8.	8.	8.	8.	7.	7.	7.
4	4	137	7.	7.	7.	7.	7.	7.				
7	7	172	7.	6.	6.	6.	6.	6.	6.	6.	6.	6.

7	7	182	6.	6.	5.	5.	5.	5.	5.	5.	5.	5.
7	7	192	5.	5.	4.	4.	4.	4.	4.	4.	4.	4.
7	7	202	4.	4.	3.	3.	3.	3.	3.	3.	3.	3.
7	7	212	3.	3.	2.	2.						
8	8	216	2.	2.	2.	2.	2.	2.	2.	2.		
9	9	224	1.	1.	1.	1.	1.	1.	1.	1.	1.	
12	12	244	0.	0.	0.	0.	0.	0.				
5	5	143	3.	3.	3.	3.	2.	2.	2.	2.	2.	2.
5	5	153	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.
5	5	163	1.	1.	1.	1.						
6	6	167	0.	0.	0.	0.	0.					
10	10	233	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.
11	11	243	0.									

INTERMEDIATE REPORT

Flow — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

m^3/s — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	11.3	11.3	11.4	11.5	11.5	11.6	11.7	11.7	11.8	11.8
1	1	11	11.9	12.0	12.0	12.1	12.2	12.2	12.3	12.3	12.4	12.5
1	1	21	12.5	12.6	12.7	12.7	12.8	12.8	12.9	13.0	13.0	13.1
1	1	31	13.2	13.2	13.3	13.3	13.4	13.5	13.5	13.6	13.7	13.7
1	1	41	13.8	13.8	13.9	14.0	14.0	14.1				
2	2	47	13.8	13.4	13.1	12.8	12.4	12.1	11.8	11.4	11.1	10.8
2	2	57	10.4	10.1	9.8	9.4	9.1	8.8	8.4	8.1	7.8	7.4
2	2	67	7.1	6.8	6.4	6.1	5.8	5.5	5.1	4.8	4.5	4.1
2	2	77	3.8									
3	3	78	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
3	3	88	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
3	3	98	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.9	3.9
3	3	108	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	
4	4	117	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
4	4	127	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
4	4	137	3.9	3.9	3.9	3.9	3.9	3.9				
7	7	172	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
7	7	182	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
7	7	192	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
7	7	202	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
7	7	212	4.4	4.4	4.4	4.4						
8	8	216	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4		
9	9	224	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
12	12	244	4.5	4.5	4.5	4.5	4.5	4.5				
5	5	143	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
5	5	153	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
5	5	163	0.4	0.4	0.5	0.5						
6	6	167	0.5	0.5	0.5	0.5	0.5					
10	10	233	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
11	11	243	0.1									

INTERMEDIATE REPORT

Dispersion — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

m^2/s — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1	1	11	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1	1	21	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1	1	31	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1	1	41	0.5	0.5	0.5	0.5	0.5	0.5				
2	2	47	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	57	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	67	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2	2	77	0.5									
3	3	78	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
3	3	88	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
3	3	98	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
3	3	108	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
4	4	117	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
4	4	127	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
4	4	137	0.3	0.3	0.3	0.3	0.3	0.3				
7	7	172	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7	7	182	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7	7	192	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7	7	202	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7	7	212	0.1	0.1	0.1	0.1						
8	8	216	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
9	9	224	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
12	12	244	0.1	0.1	0.1	0.1	0.1	0.1				
5	5	143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	153	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	163	0.0	0.0	0.0	0.0						
6	6	167	0.2	0.2	0.2	0.2	0.2					
10	10	233	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	11	243	0.1									

INTERMEDIATE REPORT

Advective Velocity — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

m/s — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1	1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1	1	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1	1	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1	1	41	0.0	0.0	0.0	0.0	0.0	0.0				
2	2	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	2	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	2	67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	2	77	0.0									
3	3	78	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
3	3	88	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
3	3	98	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
3	3	108	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
4	4	117	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
4	4	127	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	

4	4	137	0.2	0.2	0.2	0.2	0.2	0.2				
7	7	172	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7	7	182	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7	7	192	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7	7	202	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7	7	212	0.1	0.1	0.1	0.1						
8	8	216	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	9	224	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
12	12	244	0.1	0.1	0.1	0.1	0.1	0.1				
5	5	143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	153	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5	163	0.0	0.0	0.0	0.0						
6	6	167	0.0	0.0	0.0	0.0	0.0					
10	10	233	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	11	243	0.0									

INTERMEDIATE REPORT

Depth
m

Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
1	1	11	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1	1	21	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1	1	31	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1	1	41	1.5	1.5	1.5	1.5	1.5	1.5				
2	2	47	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	57	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	67	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	77	1.5									
3	3	78	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
3	3	88	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
3	3	98	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
3	3	108	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
4	4	117	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
4	4	127	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
4	4	137	1.5	1.5	1.5	1.5	1.5	1.5				
7	7	172	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
7	7	182	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
7	7	192	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
7	7	202	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
7	7	212	1.5	1.5	1.5	1.5						
8	8	216	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
9	9	224	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
12	12	244	1.5	1.5	1.5	1.5	1.5	1.5				
5	5	143	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
5	5	153	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
5	5	163	0.8	0.8	0.8	0.8						
6	6	167	1.9	1.9	1.9	1.9	1.9					
10	10	233	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
11	11	243	1.5									

INTERMEDIATE REPORT

Width — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
m — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0
1	1	11	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0
1	1	21	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0
1	1	31	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0
1	1	41	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0				
2	2	47	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
2	2	57	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
2	2	67	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
2	2	77	1029.0									
3	3	78	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
3	3	88	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
3	3	98	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
3	3	108	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	
4	4	117	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
4	4	127	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
4	4	137	10.0	10.0	10.0	10.0	10.0	10.0				
7	7	172	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
7	7	182	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
7	7	192	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
7	7	202	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
7	7	212	46.0	46.0	46.0	46.0						
8	8	216	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0		
9	9	224	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	
12	12	244	20.0	20.0	20.0	20.0	20.0	20.0				
5	5	143	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0
5	5	153	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0	2428.0
5	5	163	2428.0	2428.0	2428.0	2428.0						
6	6	167	20.0	20.0	20.0	20.0	20.0					
10	10	233	970.0	970.0	970.0	970.0	970.0	970.0	970.0	970.0	970.0	970.0
11	11	243	50.0									

INTERMEDIATE REPORT

Cross-Sectional Area — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
m² — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8
1	1	11	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8
1	1	21	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8
1	1	31	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8
1	1	41	2366.8	2366.8	2366.8	2366.8	2366.8	2366.8				
2	2	47	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9
2	2	57	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9
2	2	67	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9
2	2	77	1594.9									
3	3	78	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
3	3	88	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
3	3	98	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
3	3	108	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	

4	4	117	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
4	4	127	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
4	4	137	15.5	15.5	15.5	15.5	15.5	15.5				
7	7	172	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
7	7	182	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
7	7	192	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
7	7	202	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
7	7	212	71.3	71.3	71.3	71.3						
8	8	216	170.5	170.5	170.5	170.5	170.5	170.5	170.5	170.5		
9	9	224	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	
12	12	244	31.0	31.0	31.0	31.0	31.0	31.0				
5	5	143	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4
5	5	153	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4
5	5	163	1942.4	1942.4	1942.4	1942.4						
6	6	167	38.1	38.1	38.1	38.1	38.1					
10	10	233	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5
11	11	243	77.5									

INTERMEDIATE REPORT

Reaeration Rate per day — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
1	1	11	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
1	1	21	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
1	1	31	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
1	1	41	0.735	0.735	0.735	0.735	0.735	0.735				
2	2	47	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
2	2	57	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
2	2	67	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
2	2	77	0.735									
3	3	78	0.781	0.781	0.782	0.782	0.782	0.782	0.783	0.783	0.783	0.783
3	3	88	0.783	0.784	0.784	0.784	0.784	0.785	0.785	0.785	0.785	0.785
3	3	98	0.786	0.786	0.786	0.786	0.787	0.787	0.787	0.787	0.787	0.788
3	3	108	0.788	0.788	0.788	0.789	0.789	0.789	0.789	0.789	0.790	
4	4	117	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249
4	4	127	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249
4	4	137	1.249	1.249	1.249	1.249	1.249	1.249				
7	7	172	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619
7	7	182	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619
7	7	192	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619
7	7	202	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619
7	7	212	0.619	0.619	0.619	0.619						
8	8	216	0.554	0.554	0.554	0.554	0.554	0.554	0.554	0.554		
9	9	224	0.767	0.767	0.767	0.767	0.767	0.767	0.767	0.767	0.767	
12	12	244	0.955	0.958	0.962	0.965	0.969	0.972				
5	5	143	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425
5	5	153	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425	1.425
5	5	163	1.425	1.425	1.425	1.425						
6	6	167	0.451	0.451	0.451	0.451	0.451					

10	10	233	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520
11	11	243	0.554									

INTERMEDIATE REPORT

BOD Decay Rate — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

per day — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
1	1	11	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
1	1	21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
1	1	31	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
1	1	41	0.22	0.22	0.22	0.22	0.22	0.22				
2	2	47	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
2	2	57	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
2	2	67	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
2	2	77	0.22									
3	3	78	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
3	3	88	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
3	3	98	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
3	3	108	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	
4	4	117	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
4	4	127	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
4	4	137	0.52	0.52	0.52	0.52	0.52	0.52				
7	7	172	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
7	7	182	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
7	7	192	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
7	7	202	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
7	7	212	0.52	0.52	0.52	0.52						
8	8	216	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52		
9	9	224	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	
12	12	244	0.52	0.53	0.53	0.54	0.54	0.55				
5	5	143	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
5	5	153	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
5	5	163	0.10	0.10	0.10	0.10						
6	6	167	0.22	0.22	0.22	0.22	0.22					
10	10	233	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
11	11	243	0.52									

INTERMEDIATE REPORT

BOD Settling Rate — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

per day — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1	41	0.00	0.00	0.00	0.00	0.00	0.00				
2	2	47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2	77	0.00									
3	3	78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3	3	88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	3	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	4	117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	127	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	4	137	0.00	0.00	0.00	0.00	0.00	0.00				
7	7	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	192	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	202	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	7	212	0.00	0.00	0.00	0.00						
8	8	216	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9	9	224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	12	244	0.00	0.00	0.00	0.00	0.00	0.00				
5	5	143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5	163	0.00	0.00	0.00	0.00						
6	6	167	0.00	0.00	0.00	0.00	0.00					
10	10	233	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	11	243	0.00									

INTERMEDIATE REPORT

Ammonia Decay Rate — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

per day — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
1	1	11	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
1	1	21	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
1	1	31	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
1	1	41	0.47	0.47	0.47	0.47	0.47	0.47				
2	2	47	0.47	0.47	0.47	0.46	0.46	0.46	0.46	0.46	0.46	0.46
2	2	57	0.46	0.46	0.46	0.46	0.46	0.45	0.45	0.45	0.45	0.45
2	2	67	0.45	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.44
2	2	77	0.44									
3	3	78	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.43	0.43	0.43
3	3	88	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
3	3	98	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.42
3	3	108	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	
4	4	117	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.43	0.43
4	4	127	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
4	4	137	0.43	0.43	0.43	0.43	0.43	0.43				
7	7	172	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
7	7	182	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
7	7	192	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
7	7	202	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
7	7	212	0.44	0.44	0.45	0.45						
8	8	216	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45		
9	9	224	0.45	0.45	0.45	0.45	0.45	0.45	0.46	0.46	0.46	
12	12	244	0.47	0.48	0.48	0.49	0.50	0.51				
5	5	143	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
5	5	153	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47

5	5	163	0.47	0.47	0.47	0.47							
6	6	167	0.47	0.47	0.47	0.47	0.47						
10	10	233	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
11	11	243	0.47										

INTERMEDIATE REPORT

Sediment Oxygen Demand — Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

g/m²/d — Calibration Simulation for Lake de Cade Theriot and Hache model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
1	1	1	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
1	1	11	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
1	1	21	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
1	1	31	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
1	1	41	2.41	2.41	2.41	2.41	2.41	2.41				
2	2	47	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
2	2	57	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
2	2	67	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
2	2	77	2.82									
3	3	78	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03
3	3	88	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03
3	3	98	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03
3	3	108	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	5.03	
4	4	117	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
4	4	127	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
4	4	137	4.02	4.02	4.02	4.02	4.02	4.02				
7	7	172	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
7	7	182	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
7	7	192	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
7	7	202	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
7	7	212	4.02	4.02	4.02	4.02						
8	8	216	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02		
9	9	224	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	
12	12	244	4.08	4.13	4.19	4.25	4.31	4.37				
5	5	143	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
5	5	153	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
5	5	163	4.02	4.02	4.02	4.02						
6	6	167	4.02	4.02	4.02	4.02	4.02					
10	10	233	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
11	11	243	4.02									

CONDENSED CAPSULE SUMMARY FOR Lake de Cade

DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	REAER	ORGN	BOD1 NH3	BOD2 CHLA	BOD2 RATE	NH3 DECA	SETT DECA	SETT DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	11.21353	31.10	0.00	6.50	2.72	0.00	0.80	0.10	20.00						
20.80	11.27630	31.10	0.00	6.49	2.72	0.00	0.81	0.09	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
20.70	11.33907	31.10	0.00	6.49	2.73	0.00	0.82	0.09	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
20.60	11.40184	31.10	0.00	6.49	2.73	0.00	0.82	0.08	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
20.50	11.46461	31.10	0.00	6.49	2.73	0.00	0.83	0.08	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
20.40	11.52737	31.10	0.00	6.49	2.73	0.00	0.84	0.08	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
20.30	11.59014	31.10	0.00	6.49	2.73	0.00	0.84	0.08	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
20.20	11.65291	31.10	0.00	6.49	2.74	0.00	0.85	0.07	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41

20.10	11.71568	31.10	0.00	6.50	2.74	0.00	0.85	0.07	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
20.00	11.77845	31.10	0.00	6.50	2.74	0.00	0.86	0.07	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
19.90	11.84122	31.10	0.00	6.50	2.74	0.00	0.86	0.07	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
19.80	11.90399	31.10	0.00	6.50	2.74	0.00	0.87	0.07	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
19.70	11.96676	31.10	0.00	6.51	2.74	0.00	0.87	0.07	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
19.60	12.02953	31.10	0.00	6.51	2.74	0.00	0.88	0.07	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
19.50	12.09229	31.10	0.00	6.51	2.74	0.00	0.89	0.07	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
19.40	12.15506	31.10	0.00	6.51	2.74	0.00	0.89	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
19.30	12.21783	31.10	0.00	6.52	2.75	0.00	0.90	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
19.20	12.28060	31.10	0.00	6.52	2.75	0.00	0.90	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
19.10	12.34337	31.10	0.00	6.52	2.75	0.00	0.91	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
19.00	12.40614	31.10	0.00	6.52	2.75	0.00	0.91	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
18.90	12.46891	31.10	0.00	6.53	2.75	0.00	0.92	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
18.80	12.53168	31.10	0.00	6.53	2.75	0.00	0.92	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
18.70	12.59445	31.10	0.00	6.53	2.75	0.00	0.92	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
18.60	12.65732	31.10	0.00	6.53	2.75	0.00	0.93	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
18.50	12.72009	31.10	0.00	6.53	2.75	0.00	0.93	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
18.40	12.78286	31.10	0.00	6.53	2.75	0.00	0.94	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
18.30	12.84563	31.10	0.00	6.53	2.75	0.00	0.94	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
18.20	12.90840	31.10	0.00	6.54	2.75	0.00	0.95	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
18.10	12.97117	31.10	0.00	6.54	2.75	0.00	0.95	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
18.00	13.03394	31.10	0.00	6.54	2.75	0.00	0.96	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
17.90	13.09671	31.10	0.00	6.54	2.76	0.00	0.96	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
17.80	13.15948	31.10	0.00	6.54	2.76	0.00	0.97	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
17.70	13.22225	31.10	0.00	6.54	2.76	0.00	0.97	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
17.60	13.28501	31.10	0.00	6.54	2.76	0.00	0.97	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
17.50	13.34778	31.10	0.00	6.54	2.76	0.00	0.98	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
17.40	13.41055	31.10	0.00	6.54	2.76	0.00	0.98	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
17.30	13.47332	31.10	0.00	6.54	2.76	0.00	0.99	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
17.20	13.53609	31.10	0.00	6.54	2.76	0.00	0.99	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
17.10	13.59886	31.10	0.00	6.54	2.76	0.00	0.99	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
17.00	13.66163	31.10	0.00	6.54	2.76	0.00	1.00	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
16.90	13.72440	31.10	0.00	6.54	2.76	0.00	1.00	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
16.80	13.78717	31.10	0.00	6.54	2.76	0.00	1.01	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
16.70	13.84993	31.10	0.00	6.54	2.76	0.00	1.01	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
16.60	13.91270	31.10	0.00	6.54	2.77	0.00	1.01	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
16.50	13.97547	31.10	0.00	6.54	2.78	0.00	1.02	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
16.40	14.03824	31.10	0.00	6.53	2.81	0.00	1.02	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
16.30	14.10101	31.10	0.00	6.51	2.88	0.00	1.03	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.41
16.20	13.76835	31.10	0.00	6.47	3.06	0.00	1.03	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.82
16.10	13.43568	31.10	0.00	6.43	3.26	0.00	1.04	0.06	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.82
16.00	13.10302	31.10	0.00	6.38	3.45	0.00	1.04	0.07	20.00	0.74	0.22	0.00	0.00	0.00	0.47	2.82
15.90	12.77035	31.10	0.00	6.33	3.64	0.00	1.05	0.07	20.00	0.74	0.22	0.00	0.00	0.00	0.46	2.82
15.80	12.43769	31.10	0.00	6.28	3.83	0.00	1.06	0.07	20.00	0.74	0.22	0.00	0.00	0.00	0.46	2.82
15.70	12.10502	31.10	0.00	6.22	4.02	0.00	1.06	0.07	20.00	0.74	0.22	0.00	0.00	0.00	0.46	2.82
15.60	11.77236	31.10	0.00	6.17	4.20	0.00	1.07	0.08	20.00	0.74	0.22	0.00	0.00	0.00	0.46	2.82
15.50	11.43969	31.10	0.00	6.11	4.39	0.00	1.08	0.08	20.00	0.74	0.22	0.00	0.00	0.00	0.46	2.82
15.40	11.10703	31.10	0.00	6.05	4.57	0.00	1.09	0.08	20.00	0.74	0.22	0.00	0.00	0.00	0.46	2.82
15.30	10.77437	31.10	0.00	5.99	4.74	0.00	1.09	0.08	20.00	0.74	0.22	0.00	0.00	0.00	0.46	2.82
15.20	10.44170	31.10	0.00	5.93	4.92	0.00	1.10	0.09	20.00	0.74	0.22	0.00	0.00	0.00	0.46	2.82

15.10	10.10904	31.10	0.00	5.87	5.09	0.00	1.11	0.09	20.00	0.74	0.22	0.00	0.00	0.00	0.46	2.82
15.00	9.77637	31.10	0.00	5.81	5.26	0.00	1.12	0.09	20.00	0.74	0.22	0.00	0.00	0.00	0.46	2.82
14.90	9.44371	31.10	0.00	5.75	5.42	0.00	1.12	0.09	20.00	0.74	0.22	0.00	0.00	0.00	0.46	2.82
14.80	9.11104	31.10	0.00	5.69	5.59	0.00	1.13	0.09	20.00	0.74	0.22	0.00	0.00	0.00	0.46	2.82
14.70	8.77838	31.10	0.00	5.63	5.75	0.00	1.14	0.10	20.00	0.74	0.22	0.00	0.00	0.00	0.45	2.82
14.60	8.44571	31.10	0.00	5.57	5.90	0.00	1.15	0.10	20.00	0.74	0.22	0.00	0.00	0.00	0.45	2.82
14.50	8.11305	31.10	0.00	5.51	6.06	0.00	1.16	0.10	20.00	0.74	0.22	0.00	0.00	0.00	0.45	2.82
14.40	7.78039	31.10	0.00	5.45	6.21	0.00	1.17	0.10	20.00	0.74	0.22	0.00	0.00	0.00	0.45	2.82
14.30	7.44772	31.10	0.00	5.39	6.36	0.00	1.18	0.10	20.00	0.74	0.22	0.00	0.00	0.00	0.45	2.82
14.20	7.11506	31.10	0.00	5.33	6.51	0.00	1.19	0.10	20.00	0.74	0.22	0.00	0.00	0.00	0.45	2.82
14.10	6.78239	31.10	0.00	5.27	6.65	0.00	1.20	0.10	20.00	0.74	0.22	0.00	0.00	0.00	0.45	2.82
14.00	6.44973	31.10	0.00	5.22	6.79	0.00	1.21	0.10	20.00	0.74	0.22	0.00	0.00	0.00	0.45	2.82
13.90	6.11706	31.10	0.00	5.16	6.92	0.00	1.22	0.11	20.00	0.74	0.22	0.00	0.00	0.00	0.45	2.82
13.80	5.78440	31.10	0.00	5.10	7.05	0.00	1.23	0.11	20.00	0.74	0.22	0.00	0.00	0.00	0.45	2.82
13.70	5.45173	31.10	0.00	5.05	7.18	0.00	1.24	0.11	20.00	0.74	0.22	0.00	0.00	0.00	0.44	2.82
13.60	5.11907	31.10	0.00	5.00	7.29	0.00	1.25	0.11	20.00	0.74	0.22	0.00	0.00	0.00	0.44	2.82
13.50	4.78640	31.10	0.00	4.95	7.40	0.00	1.26	0.11	20.00	0.74	0.22	0.00	0.00	0.00	0.44	2.82
13.40	4.45374	31.10	0.00	4.91	7.50	0.00	1.27	0.11	20.00	0.74	0.22	0.00	0.00	0.00	0.44	2.82
13.30	4.12108	31.10	0.00	4.88	7.57	0.00	1.28	0.11	20.00	0.74	0.22	0.00	0.00	0.00	0.44	2.82
13.20	3.78841	31.10	0.00	4.85	7.62	0.00	1.29	0.11	20.00	0.74	0.22	0.00	0.00	0.00	0.44	2.82
13.10	3.79059	31.10	0.00	4.83	7.61	0.00	1.29	0.11	20.85	0.78	0.52	0.00	0.00	0.00	0.44	5.03
13.00	3.79277	31.10	0.00	4.79	7.59	0.00	1.29	0.11	21.69	0.78	0.52	0.00	0.00	0.00	0.44	5.03
12.90	3.79495	31.10	0.00	4.75	7.58	0.00	1.29	0.11	22.54	0.78	0.52	0.00	0.00	0.00	0.44	5.03
12.80	3.79713	31.10	0.00	4.71	7.56	0.00	1.29	0.11	23.38	0.78	0.52	0.00	0.00	0.00	0.44	5.03
12.70	3.79931	31.10	0.00	4.67	7.54	0.00	1.30	0.11	24.23	0.78	0.52	0.00	0.00	0.00	0.44	5.03
12.60	3.80149	31.10	0.00	4.64	7.53	0.00	1.30	0.11	25.08	0.78	0.52	0.00	0.00	0.00	0.44	5.03
12.50	3.80367	31.10	0.00	4.60	7.51	0.00	1.30	0.11	25.92	0.78	0.52	0.00	0.00	0.00	0.44	5.03
12.40	3.80585	31.10	0.00	4.57	7.50	0.00	1.30	0.11	26.77	0.78	0.52	0.00	0.00	0.00	0.43	5.03
12.30	3.80803	31.10	0.00	4.54	7.48	0.00	1.31	0.11	27.62	0.78	0.52	0.00	0.00	0.00	0.43	5.03
12.20	3.81020	31.10	0.00	4.51	7.47	0.00	1.31	0.11	28.46	0.78	0.52	0.00	0.00	0.00	0.43	5.03
12.10	3.81238	31.10	0.00	4.48	7.45	0.00	1.31	0.11	29.31	0.78	0.52	0.00	0.00	0.00	0.43	5.03
12.00	3.81456	31.10	0.00	4.45	7.44	0.00	1.31	0.11	30.15	0.78	0.52	0.00	0.00	0.00	0.43	5.03
11.90	3.81674	31.10	0.00	4.42	7.42	0.00	1.32	0.11	31.00	0.78	0.52	0.00	0.00	0.00	0.43	5.03
11.80	3.81892	31.10	0.00	4.39	7.41	0.00	1.32	0.11	31.85	0.78	0.52	0.00	0.00	0.00	0.43	5.03
11.70	3.82110	31.10	0.00	4.37	7.39	0.00	1.32	0.11	32.69	0.78	0.52	0.00	0.00	0.00	0.43	5.03
11.60	3.82328	31.10	0.00	4.34	7.38	0.00	1.32	0.11	33.54	0.78	0.52	0.00	0.00	0.00	0.43	5.03
11.50	3.82546	31.10	0.00	4.32	7.36	0.00	1.33	0.11	34.38	0.78	0.52	0.00	0.00	0.00	0.43	5.03
11.40	3.82764	31.10	0.00	4.30	7.35	0.00	1.33	0.11	35.23	0.79	0.52	0.00	0.00	0.00	0.43	5.03
11.30	3.82982	31.10	0.00	4.28	7.33	0.00	1.33	0.11	36.08	0.79	0.52	0.00	0.00	0.00	0.43	5.03
11.20	3.83200	31.10	0.00	4.26	7.32	0.00	1.33	0.11	36.92	0.79	0.52	0.00	0.00	0.00	0.43	5.03
11.10	3.83418	31.10	0.00	4.24	7.30	0.00	1.34	0.11	37.77	0.79	0.52	0.00	0.00	0.00	0.43	5.03
11.00	3.83636	31.10	0.00	4.23	7.29	0.00	1.34	0.11	38.62	0.79	0.52	0.00	0.00	0.00	0.43	5.03
10.90	3.83854	31.10	0.00	4.21	7.28	0.00	1.34	0.11	39.46	0.79	0.52	0.00	0.00	0.00	0.43	5.03
10.80	3.84072	31.10	0.00	4.20	7.26	0.00	1.34	0.11	40.31	0.79	0.52	0.00	0.00	0.00	0.43	5.03
10.70	3.84290	31.10	0.00	4.18	7.25	0.00	1.35	0.11	41.15	0.79	0.52	0.00	0.00	0.00	0.43	5.03
10.60	3.84508	31.10	0.00	4.17	7.24	0.00	1.35	0.11	42.00	0.79	0.52	0.00	0.00	0.00	0.42	5.03
10.50	3.84725	31.10	0.00	4.16	7.22	0.00	1.35	0.11	42.85	0.79	0.52	0.00	0.00	0.00	0.42	5.03
10.40	3.84943	31.10	0.00	4.15	7.21	0.00	1.35	0.11	43.69	0.79	0.52	0.00	0.00	0.00	0.42	5.03
10.30	3.85161	31.10	0.00	4.14	7.20	0.00	1.36	0.11	44.54	0.79	0.52	0.00	0.00	0.00	0.42	5.03
10.20	3.85379	31.10	0.00	4.13	7.18	0.00	1.36	0.11	45.38	0.79	0.52	0.00	0.00	0.00	0.42	5.03

10.10	3.85597	31.10	0.00	4.12	7.17	0.00	1.36	0.12	46.23	0.79	0.52	0.00	0.00	0.00	0.42	5.03
10.00	3.85815	31.10	0.00	4.11	7.16	0.00	1.36	0.12	47.08	0.79	0.52	0.00	0.00	0.00	0.42	5.03
9.90	3.86033	31.10	0.00	4.11	7.14	0.00	1.37	0.12	47.92	0.79	0.52	0.00	0.00	0.00	0.42	5.03
9.80	3.86251	31.10	0.00	4.10	7.13	0.00	1.37	0.12	48.77	0.79	0.52	0.00	0.00	0.00	0.42	5.03
9.70	3.86469	31.10	0.00	4.10	7.12	0.00	1.37	0.12	49.62	0.79	0.52	0.00	0.00	0.00	0.42	5.03
9.60	3.86687	31.10	0.00	4.10	7.10	0.00	1.37	0.12	50.46	0.79	0.52	0.00	0.00	0.00	0.42	5.03
9.50	3.86905	31.10	0.00	4.09	7.09	0.00	1.38	0.12	51.31	0.79	0.52	0.00	0.00	0.00	0.42	5.03
9.40	3.87123	31.10	0.00	4.09	7.08	0.00	1.38	0.12	52.15	0.79	0.52	0.00	0.00	0.00	0.42	5.03
9.30	3.87341	31.10	0.00	4.09	7.07	0.00	1.38	0.12	53.00	0.79	0.52	0.00	0.00	0.00	0.42	5.03
9.20	3.87341	31.10	0.00	4.10	7.05	0.00	1.38	0.12	53.00	1.25	0.52	0.00	0.00	0.00	0.42	4.02
9.10	3.87341	31.10	0.00	4.11	7.03	0.00	1.38	0.12	53.00	1.25	0.52	0.00	0.00	0.00	0.42	4.02
9.00	3.87341	31.10	0.00	4.12	7.02	0.00	1.38	0.12	53.00	1.25	0.52	0.00	0.00	0.00	0.42	4.02
8.90	3.87341	31.10	0.00	4.13	7.00	0.00	1.38	0.12	53.00	1.25	0.52	0.00	0.00	0.00	0.42	4.02
8.80	3.87341	31.10	0.00	4.14	6.98	0.00	1.38	0.12	53.00	1.25	0.52	0.00	0.00	0.00	0.42	4.02
8.70	3.87341	31.10	0.00	4.15	6.97	0.00	1.38	0.12	53.00	1.25	0.52	0.00	0.00	0.00	0.42	4.02
8.60	3.87341	31.10	0.00	4.16	6.95	0.00	1.38	0.12	53.00	1.25	0.52	0.00	0.00	0.00	0.42	4.02
8.50	3.87341	31.10	0.00	4.17	6.93	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.42	4.02
8.40	3.87341	31.10	0.00	4.18	6.92	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
8.30	3.87341	31.10	0.00	4.19	6.90	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
8.20	3.87341	31.10	0.00	4.20	6.88	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
8.10	3.87341	31.10	0.00	4.21	6.87	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
8.00	3.87341	31.10	0.00	4.22	6.85	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
7.90	3.87341	31.10	0.00	4.23	6.83	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
7.80	3.87341	31.10	0.00	4.24	6.82	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
7.70	3.87341	31.10	0.00	4.25	6.80	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
7.60	3.87341	31.10	0.00	4.26	6.79	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
7.50	3.87341	31.10	0.00	4.27	6.77	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
7.40	3.87341	31.10	0.00	4.28	6.75	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
7.30	3.87341	31.10	0.00	4.28	6.74	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
7.20	3.87341	31.10	0.00	4.29	6.72	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
7.10	3.87341	31.10	0.00	4.30	6.71	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
7.00	3.87341	31.10	0.00	4.31	6.69	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
6.90	3.87341	31.10	0.00	4.32	6.67	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
6.80	3.87341	31.10	0.00	4.33	6.66	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
6.70	3.87341	31.10	0.00	4.35	6.64	0.00	1.38	0.11	53.00	1.25	0.52	0.00	0.00	0.00	0.43	4.02
6.60	4.38312	31.10	0.00	4.67	6.37	0.00	1.32	0.11	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
6.50	4.38312	31.10	0.00	4.68	6.31	0.00	1.32	0.11	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
6.40	4.38312	31.10	0.00	4.68	6.25	0.00	1.32	0.11	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
6.30	4.38312	31.10	0.00	4.68	6.19	0.00	1.32	0.11	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
6.20	4.38312	31.10	0.00	4.68	6.13	0.00	1.32	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
6.10	4.38312	31.10	0.00	4.69	6.07	0.00	1.32	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
6.00	4.38312	31.10	0.00	4.69	6.01	0.00	1.32	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
5.90	4.38312	31.10	0.00	4.69	5.96	0.00	1.32	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
5.80	4.38312	31.10	0.00	4.70	5.90	0.00	1.32	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
5.70	4.38312	31.10	0.00	4.70	5.84	0.00	1.32	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
5.60	4.38312	31.10	0.00	4.71	5.79	0.00	1.32	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
5.50	4.38312	31.10	0.00	4.72	5.73	0.00	1.32	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
5.40	4.38312	31.10	0.00	4.72	5.67	0.00	1.32	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
5.30	4.38312	31.10	0.00	4.73	5.62	0.00	1.32	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
5.20	4.38312	31.10	0.00	4.74	5.57	0.00	1.31	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02

5.10	4.38312	31.10	0.00	4.75	5.51	0.00	1.31	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
5.00	4.38312	31.10	0.00	4.76	5.46	0.00	1.31	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
4.90	4.38312	31.10	0.00	4.76	5.41	0.00	1.31	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
4.80	4.38312	31.10	0.00	4.77	5.35	0.00	1.31	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
4.70	4.38312	31.10	0.00	4.78	5.30	0.00	1.31	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
4.60	4.38312	31.10	0.00	4.79	5.25	0.00	1.31	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
4.50	4.38312	31.10	0.00	4.81	5.20	0.00	1.31	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
4.40	4.38312	31.10	0.00	4.82	5.15	0.00	1.31	0.10	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
4.30	4.38312	31.10	0.00	4.83	5.10	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
4.20	4.38312	31.10	0.00	4.84	5.05	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
4.10	4.38312	31.10	0.00	4.85	5.00	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
4.00	4.38312	31.10	0.00	4.86	4.96	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
3.90	4.38312	31.10	0.00	4.88	4.91	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
3.80	4.38312	31.10	0.00	4.89	4.86	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
3.70	4.38312	31.10	0.00	4.90	4.81	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
3.60	4.38312	31.10	0.00	4.92	4.77	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
3.50	4.38312	31.10	0.00	4.93	4.72	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
3.40	4.38312	31.10	0.00	4.95	4.68	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
3.30	4.38312	31.10	0.00	4.96	4.63	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
3.20	4.38312	31.10	0.00	4.97	4.59	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
3.10	4.38312	31.10	0.00	4.99	4.54	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
3.00	4.38312	31.10	0.00	5.01	4.50	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
2.90	4.38312	31.10	0.00	5.02	4.46	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
2.80	4.38312	31.10	0.00	5.04	4.41	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
2.70	4.38312	31.10	0.00	5.05	4.37	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
2.60	4.38312	31.10	0.00	5.07	4.33	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
2.50	4.38312	31.10	0.00	5.09	4.29	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.44	4.02
2.40	4.38312	31.10	0.00	5.10	4.25	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.45	4.02
2.30	4.38312	31.10	0.00	5.12	4.20	0.00	1.31	0.09	53.00	0.62	0.52	0.00	0.00	0.00	0.45	4.02
2.20	4.38312	31.10	0.00	5.16	4.11	0.00	1.31	0.08	53.00	0.55	0.52	0.00	0.00	0.00	0.45	4.02
2.10	4.38312	31.10	0.00	5.19	4.01	0.00	1.30	0.08	53.00	0.55	0.52	0.00	0.00	0.00	0.45	4.02
2.00	4.38312	31.10	0.00	5.23	3.92	0.00	1.30	0.08	53.00	0.55	0.52	0.00	0.00	0.00	0.45	4.02
1.90	4.38312	31.10	0.00	5.27	3.83	0.00	1.30	0.08	53.00	0.55	0.52	0.00	0.00	0.00	0.45	4.02
1.80	4.38312	31.10	0.00	5.31	3.75	0.00	1.30	0.08	53.00	0.55	0.52	0.00	0.00	0.00	0.45	4.02
1.70	4.38312	31.10	0.00	5.35	3.66	0.00	1.30	0.08	53.00	0.55	0.52	0.00	0.00	0.00	0.45	4.02
1.60	4.38312	31.10	0.00	5.39	3.58	0.00	1.30	0.08	53.00	0.55	0.52	0.00	0.00	0.00	0.45	4.02
1.50	4.38312	31.10	0.00	5.44	3.50	0.00	1.30	0.08	53.00	0.55	0.52	0.00	0.00	0.00	0.45	4.02
1.40	4.38312	31.10	0.00	5.46	3.48	0.00	1.30	0.08	57.56	0.77	0.52	0.00	0.00	0.00	0.45	4.02
1.30	4.38312	31.10	0.00	5.48	3.46	0.00	1.30	0.08	62.11	0.77	0.52	0.00	0.00	0.00	0.45	4.02
1.20	4.38312	31.10	0.00	5.51	3.43	0.00	1.30	0.08	66.67	0.77	0.52	0.00	0.00	0.00	0.45	4.02
1.10	4.38312	31.10	0.00	5.55	3.41	0.00	1.30	0.08	71.22	0.77	0.52	0.00	0.00	0.00	0.45	4.02
1.00	4.38312	31.10	0.00	5.59	3.39	0.00	1.30	0.08	75.78	0.77	0.52	0.00	0.00	0.00	0.45	4.02
0.90	4.38312	31.10	0.00	5.63	3.37	0.00	1.30	0.08	80.33	0.77	0.52	0.00	0.00	0.00	0.45	4.02
0.80	4.38312	31.10	0.00	5.68	3.35	0.00	1.30	0.08	84.89	0.77	0.52	0.00	0.00	0.00	0.46	4.02
0.70	4.38312	31.10	0.00	5.73	3.33	0.00	1.30	0.08	89.44	0.77	0.52	0.00	0.00	0.00	0.46	4.02
0.60	4.38312	31.10	0.00	5.79	3.31	0.00	1.30	0.08	94.00	0.77	0.52	0.00	0.00	0.00	0.46	4.02
0.50	4.49642	31.32	0.00	5.87	3.78	0.00	1.31	0.08	78.35	0.95	0.52	0.00	0.00	0.00	0.47	4.08
0.40	4.49642	31.53	0.00	5.89	3.77	0.00	1.31	0.08	62.70	0.96	0.53	0.00	0.00	0.00	0.48	4.13
0.30	4.49642	31.75	0.00	5.89	3.75	0.00	1.31	0.08	47.05	0.96	0.53	0.00	0.00	0.00	0.48	4.19
0.20	4.49642	31.97	0.00	5.89	3.73	0.00	1.31	0.08	31.40	0.97	0.54	0.00	0.00	0.00	0.49	4.25

0.10	4.49642	32.18	0.00	5.87	3.72	0.00	1.31	0.08	15.74	0.97	0.54	0.00	0.00	0.00	0.50	4.31
0.00	4.49642	32.40	0.00	5.84	3.72	0.00	1.29	0.08	0.09	0.97	0.55	0.00	0.00	0.00	0.51	4.37

CONDENSED CAPSULE SUMMARY FOR Lake Theriot

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3	CHLA	RATE	DECA	SETT DECA	SETT DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.00971	31.10	0.00	6.90	2.72	0.00	0.90	0.10	53.00							
2.80	0.02971	31.10	0.00	6.66	3.64	0.00	0.84	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
2.70	0.04971	31.10	0.00	6.66	3.68	0.00	0.84	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
2.60	0.06971	31.10	0.00	6.66	3.68	0.00	0.84	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
2.50	0.08971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
2.40	0.10971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
2.30	0.12971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
2.20	0.14971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
2.10	0.16971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
2.00	0.18971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
1.90	0.20971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
1.80	0.22971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
1.70	0.24971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
1.60	0.26971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
1.50	0.28971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
1.40	0.30971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
1.30	0.32971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
1.20	0.34971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
1.10	0.36971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
1.00	0.38971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
0.90	0.40971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
0.80	0.42971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
0.70	0.44971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
0.60	0.46971	31.10	0.00	6.66	3.68	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
0.50	0.48971	31.10	0.00	6.66	3.69	0.00	0.83	0.04	53.00	1.43	0.10	0.00	0.00	0.00	0.47	4.02
0.40	0.49371	31.10	0.00	6.80	3.97	0.00	0.84	0.05	53.00	0.45	0.22	0.00	0.00	0.00	0.47	4.02
0.30	0.49771	31.10	0.00	6.91	4.22	0.00	0.85	0.05	53.00	0.45	0.22	0.00	0.00	0.00	0.47	4.02
0.20	0.50171	31.10	0.00	7.01	4.46	0.00	0.86	0.06	53.00	0.45	0.22	0.00	0.00	0.00	0.47	4.02
0.10	0.50571	31.10	0.00	7.02	4.74	0.00	0.88	0.07	53.00	0.45	0.22	0.00	0.00	0.00	0.47	4.02
0.00	0.50971	31.10	0.00	6.48	5.30	0.00	1.00	0.08	53.00	0.45	0.22	0.00	0.00	0.00	0.47	4.02

CONDENSED CAPSULE SUMMARY FOR Lake Hache

DIST	FLOW	TEMP	SALN	DO	REAER EBOD1	BOD1 EBOD2	BOD2 ORGN	NH3	CHLA	RATE	DECA	SETT DECA	SETT DECA	SOD
km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.00100	31.10	0.00	8.70	60.00	0.00	2.10	0.10	94.00							
1.00	0.01081	31.10	0.00	8.67	26.12	0.00	1.84	0.04	94.00	1.52	0.02	0.00	0.00	0.00	0.48	4.02
0.90	0.02062	31.10	0.00	8.68	25.14	0.00	1.83	0.04	94.00	1.52	0.02	0.00	0.00	0.00	0.48	4.02
0.80	0.03043	31.10	0.00	8.68	24.91	0.00	1.82	0.04	94.00	1.52	0.02	0.00	0.00	0.00	0.48	4.02
0.70	0.04024	31.10	0.00	8.68	24.82	0.00	1.82	0.04	94.00	1.52	0.02	0.00	0.00	0.00	0.48	4.02
0.60	0.05005	31.10	0.00	8.68	24.77	0.00	1.82	0.04	94.00	1.52	0.02	0.00	0.00	0.00	0.48	4.02
0.50	0.05986	31.10	0.00	8.69	24.75	0.00	1.82	0.04	94.00	1.52	0.02	0.00	0.00	0.00	0.48	4.02
0.40	0.06967	31.10	0.00	8.69	24.74	0.00	1.82	0.04	94.00	1.52	0.02	0.00	0.00	0.00	0.48	4.02
0.30	0.07948	31.10	0.00	8.69	24.73	0.00	1.82	0.04	94.00	1.52	0.02	0.00	0.00	0.00	0.48	4.02
0.20	0.08929	31.10	0.00	8.69	24.72	0.00	1.82	0.04	94.00	1.52	0.02	0.00	0.00	0.00	0.48	4.02

```
  0.10   0.09910 31.10 0.00   8.66 21.46  0.00 1.74 0.04 94.00   1.52  0.02 0.00 0.00 0.00 0.48  4.02
  0.00   0.11330 31.10 0.00   6.86 11.94  0.00 1.53 0.10 94.00   0.55  0.52 0.00 0.00 0.00 0.47  4.02
EXPANDED CAPSULE SUMMARY FOR Lake de Cade
                                                                ADVEC   MEAN   DO   REAER BOD1 BOD1 BOD2 BOD2  NH3
IOR REACH    DIST   FLOW  TEMP SALN   DO EBOD1 EBOD2ORG-N  NH3 CHLA   DISP  DEPTH WIDTH   VELO   VELO   SAT   RATE DECA SETT DECA SETT DECA   SOD
          km    m³/s deg C  ppt mg/L  mg/L  mg/L mg/L mg/L µg/L   m²/s     m     m    m/s    m/s  mg/L   1/da 1/da 1/da 1/da 1/da 1/da  g/m²/d
        HDWTR  11.214 31.1  0.0  6.5   2.7   0.0  0.8  0.1 20.0
  1 1 1   20.80  11.276 31.1  0.0  6.5   2.7   0.0  0.8  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
  2 1 1   20.70  11.339 31.1  0.0  6.5   2.7   0.0  0.8  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
  3 1 1   20.60  11.402 31.1  0.0  6.5   2.7   0.0  0.8  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
  4 1 1   20.50  11.465 31.1  0.0  6.5   2.7   0.0  0.8  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
  5 1 1   20.40  11.527 31.1  0.0  6.5   2.7   0.0  0.8  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
  6 1 1   20.30  11.590 31.1  0.0  6.5   2.7   0.0  0.8  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
  7 1 1   20.20  11.653 31.1  0.0  6.5   2.7   0.0  0.8  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
  8 1 1   20.10  11.716 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
  9 1 1   20.00  11.778 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 10 1 1   19.90  11.841 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 11 1 1   19.80  11.904 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 12 1 1   19.70  11.967 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 13 1 1   19.60  12.030 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 14 1 1   19.50  12.092 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 15 1 1   19.40  12.155 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 16 1 1   19.30  12.218 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 17 1 1   19.20  12.281 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 18 1 1   19.10  12.343 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 19 1 1   19.00  12.406 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 20 1 1   18.90  12.469 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 21 1 1   18.80  12.532 31.1  0.0  6.5   2.7   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 22 1 1   18.70  12.594 31.1  0.0  6.5   2.8   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
     WASTELOAD # 023 (LAG480431) ENTERS HERE
 23 1 1   18.60  12.657 31.1  0.0  6.5   2.8   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 24 1 1   18.50  12.720 31.1  0.0  6.5   2.8   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 25 1 1   18.40  12.783 31.1  0.0  6.5   2.8   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 26 1 1   18.30  12.846 31.1  0.0  6.5   2.8   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 27 1 1   18.20  12.908 31.1  0.0  6.5   2.8   0.0  0.9  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 28 1 1   18.10  12.971 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.005  0.005   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 29 1 1   18.00  13.034 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 30 1 1   17.90  13.097 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 31 1 1   17.80  13.159 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 32 1 1   17.70  13.222 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 33 1 1   17.60  13.285 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 34 1 1   17.50  13.348 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 35 1 1   17.40  13.411 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 36 1 1   17.30  13.473 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 37 1 1   17.20  13.536 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 38 1 1   17.10  13.599 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 39 1 1   17.00  13.662 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 40 1 1   16.90  13.724 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 41 1 1   16.80  13.787 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
 42 1 1   16.70  13.850 31.1  0.0  6.5   2.8   0.0  1.0  0.1 20.0    0.5   1.551527.0  0.006  0.006   7.4  0.735 0.22 0.00 0.00 0.00 0.47  2.41
```

43	1	1	16.60	13.913	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
44	1	1	16.50	13.975	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
45	1	1	16.40	14.038	31.1	0.0	6.5	2.8	0.0	1.0	0.1	20.0	0.5	1.551527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
46	1	1	16.30	14.101	31.1	0.0	6.5	2.9	0.0	1.0	0.1	20.0	0.5	1.551527.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.41
47	2	2	16.20	13.768	31.1	0.0	6.5	3.1	0.0	1.0	0.1	20.0	0.5	1.551029.0	0.009	0.009	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.82
48	2	2	16.10	13.436	31.1	0.0	6.4	3.3	0.0	1.0	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.82
49	2	2	16.00	13.103	31.1	0.0	6.4	3.5	0.0	1.0	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.47	2.82
50	2	2	15.90	12.770	31.1	0.0	6.3	3.6	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
51	2	2	15.80	12.438	31.1	0.0	6.3	3.8	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
52	2	2	15.70	12.105	31.1	0.0	6.2	4.0	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.008	0.008	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
53	2	2	15.60	11.772	31.1	0.0	6.2	4.2	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
54	2	2	15.50	11.440	31.1	0.0	6.1	4.4	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
55	2	2	15.40	11.107	31.1	0.0	6.1	4.6	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
56	2	2	15.30	10.774	31.1	0.0	6.0	4.7	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
57	2	2	15.20	10.442	31.1	0.0	5.9	4.9	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.007	0.007	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
58	2	2	15.10	10.109	31.1	0.0	5.9	5.1	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
59	2	2	15.00	9.776	31.1	0.0	5.8	5.3	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
60	2	2	14.90	9.444	31.1	0.0	5.8	5.4	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
61	2	2	14.80	9.111	31.1	0.0	5.7	5.6	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.46	2.82
62	2	2	14.70	8.778	31.1	0.0	5.6	5.7	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.006	0.006	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
63	2	2	14.60	8.446	31.1	0.0	5.6	5.9	0.0	1.1	0.1	20.0	0.5	1.551029.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
64	2	2	14.50	8.113	31.1	0.0	5.5	6.1	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
65	2	2	14.40	7.780	31.1	0.0	5.4	6.2	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
66	2	2	14.30	7.448	31.1	0.0	5.4	6.4	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.005	0.005	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
67	2	2	14.20	7.115	31.1	0.0	5.3	6.5	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.004	0.004	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
68	2	2	14.10	6.782	31.1	0.0	5.3	6.6	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.004	0.004	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
69	2	2	14.00	6.450	31.1	0.0	5.2	6.8	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.004	0.004	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
70	2	2	13.90	6.117	31.1	0.0	5.2	6.9	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.004	0.004	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
71	2	2	13.80	5.784	31.1	0.0	5.1	7.1	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.004	0.004	7.4	0.735	0.22	0.00	0.00	0.00	0.45	2.82
72	2	2	13.70	5.452	31.1	0.0	5.1	7.2	0.0	1.2	0.1	20.0	0.5	1.551029.0	0.003	0.003	7.4	0.735	0.22	0.00	0.00	0.00	0.44	2.82

EXPANDED CAPSULE SUMMARY FOR Lake de Cade

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	NH3 SETT	DECA SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
73	2	2	13.60	5.119	31.1	0.0	5.0	7.3	0.0	1.3	0.1	20.0	0.5	1.551029.0	0.003	0.003	7.4	0.735	0.22	0.00	0.00	0.00	0.44	2.82
74	2	2	13.50	4.786	31.1	0.0	5.0	7.4	0.0	1.3	0.1	20.0	0.5	1.551029.0	0.003	0.003	7.4	0.735	0.22	0.00	0.00	0.00	0.44	2.82
75	2	2	13.40	4.454	31.1	0.0	4.9	7.5	0.0	1.3	0.1	20.0	0.5	1.551029.0	0.003	0.003	7.4	0.735	0.22	0.00	0.00	0.00	0.44	2.82
76	2	2	13.30	4.121	31.1	0.0	4.9	7.6	0.0	1.3	0.1	20.0	0.5	1.551029.0	0.003	0.003	7.4	0.735	0.22	0.00	0.00	0.00	0.44	2.82
77	2	2	13.20	3.788	31.1	0.0	4.9	7.6	0.0	1.3	0.1	20.0	0.5	1.551029.0	0.002	0.002	7.4	0.735	0.22	0.00	0.00	0.00	0.44	2.82
78	3	3	13.10	3.791	31.1	0.0	4.8	7.6	0.0	1.3	0.1	20.8	0.4	1.55	25.0	0.098	0.098	7.4	0.781	0.52	0.00	0.00	0.00	0.44	5.03
79	3	3	13.00	3.793	31.1	0.0	4.8	7.6	0.0	1.3	0.1	21.7	0.4	1.55	25.0	0.098	0.098	7.4	0.781	0.52	0.00	0.00	0.00	0.44	5.03
80	3	3	12.90	3.795	31.1	0.0	4.7	7.6	0.0	1.3	0.1	22.5	0.4	1.55	25.0	0.098	0.098	7.4	0.782	0.52	0.00	0.00	0.00	0.44	5.03
81	3	3	12.80	3.797	31.1	0.0	4.7	7.6	0.0	1.3	0.1	23.4	0.4	1.55	25.0	0.098	0.098	7.4	0.782	0.52	0.00	0.00	0.00	0.44	5.03
82	3	3	12.70	3.799	31.1	0.0	4.7	7.5	0.0	1.3	0.1	24.2	0.4	1.55	25.0	0.098	0.098	7.4	0.782	0.52	0.00	0.00	0.00	0.44	5.03
83	3	3	12.60	3.801	31.1	0.0	4.6	7.5	0.0	1.3	0.1	25.1	0.4	1.55	25.0	0.098	0.098	7.4	0.782	0.52	0.00	0.00	0.00	0.44	5.03
84	3	3	12.50	3.804	31.1	0.0	4.6	7.5	0.0	1.3	0.1	25.9	0.4	1.55	25.0	0.098	0.098	7.4	0.783	0.52	0.00	0.00	0.00	0.44	5.03
85	3	3	12.40	3.806	31.1	0.0	4.6	7.5	0.0	1.3	0.1	26.8	0.4	1.55	25.0	0.098	0.098	7.4	0.783	0.52	0.00	0.00	0.00	0.43	5.03
86	3	3	12.30	3.808	31.1	0.0	4.5	7.5	0.0	1.3	0.1	27.6	0.4	1.55	25.0	0.098	0.098	7.4	0.783	0.52	0.00	0.00	0.00	0.43	5.03
87	3	3	12.20	3.810	31.1	0.0	4.5	7.5	0.0	1.3	0.1	28.5	0.4	1.55	25.0	0.098	0.098	7.4	0.783	0.52	0.00	0.00	0.00	0.43	5.03
88	3	3	12.10	3.812	31.1	0.0	4.5	7.5	0.0	1.3	0.1	29.3	0.4	1.55	25.0	0.098	0.098	7.4	0.783	0.52	0.00	0.00	0.00	0.43	5.03

89	3	3	12.00	3.815	31.1	0.0	4.4	7.4	0.0	1.3	0.1	30.2	0.4	1.55	25.0	0.098	0.098	7.4	0.784	0.52	0.00	0.00	0.00	0.43	5.03
90	3	3	11.90	3.817	31.1	0.0	4.4	7.4	0.0	1.3	0.1	31.0	0.4	1.55	25.0	0.098	0.098	7.4	0.784	0.52	0.00	0.00	0.00	0.43	5.03
91	3	3	11.80	3.819	31.1	0.0	4.4	7.4	0.0	1.3	0.1	31.8	0.4	1.55	25.0	0.099	0.099	7.4	0.784	0.52	0.00	0.00	0.00	0.43	5.03
92	3	3	11.70	3.821	31.1	0.0	4.4	7.4	0.0	1.3	0.1	32.7	0.4	1.55	25.0	0.099	0.099	7.4	0.784	0.52	0.00	0.00	0.00	0.43	5.03
93	3	3	11.60	3.823	31.1	0.0	4.3	7.4	0.0	1.3	0.1	33.5	0.4	1.55	25.0	0.099	0.099	7.4	0.785	0.52	0.00	0.00	0.00	0.43	5.03
94	3	3	11.50	3.825	31.1	0.0	4.3	7.4	0.0	1.3	0.1	34.4	0.4	1.55	25.0	0.099	0.099	7.4	0.785	0.52	0.00	0.00	0.00	0.43	5.03
95	3	3	11.40	3.828	31.1	0.0	4.3	7.3	0.0	1.3	0.1	35.2	0.4	1.55	25.0	0.099	0.099	7.4	0.785	0.52	0.00	0.00	0.00	0.43	5.03
96	3	3	11.30	3.830	31.1	0.0	4.3	7.3	0.0	1.3	0.1	36.1	0.4	1.55	25.0	0.099	0.099	7.4	0.785	0.52	0.00	0.00	0.00	0.43	5.03
97	3	3	11.20	3.832	31.1	0.0	4.3	7.3	0.0	1.3	0.1	36.9	0.4	1.55	25.0	0.099	0.099	7.4	0.785	0.52	0.00	0.00	0.00	0.43	5.03
98	3	3	11.10	3.834	31.1	0.0	4.2	7.3	0.0	1.3	0.1	37.8	0.4	1.55	25.0	0.099	0.099	7.4	0.786	0.52	0.00	0.00	0.00	0.43	5.03
99	3	3	11.00	3.836	31.1	0.0	4.2	7.3	0.0	1.3	0.1	38.6	0.4	1.55	25.0	0.099	0.099	7.4	0.786	0.52	0.00	0.00	0.00	0.43	5.03
100	3	3	10.90	3.839	31.1	0.0	4.2	7.3	0.0	1.3	0.1	39.5	0.4	1.55	25.0	0.099	0.099	7.4	0.786	0.52	0.00	0.00	0.00	0.43	5.03
101	3	3	10.80	3.841	31.1	0.0	4.2	7.3	0.0	1.3	0.1	40.3	0.4	1.55	25.0	0.099	0.099	7.4	0.786	0.52	0.00	0.00	0.00	0.43	5.03
102	3	3	10.70	3.843	31.1	0.0	4.2	7.2	0.0	1.3	0.1	41.2	0.4	1.55	25.0	0.099	0.099	7.4	0.787	0.52	0.00	0.00	0.00	0.43	5.03
103	3	3	10.60	3.845	31.1	0.0	4.2	7.2	0.0	1.3	0.1	42.0	0.4	1.55	25.0	0.099	0.099	7.4	0.787	0.52	0.00	0.00	0.00	0.42	5.03
104	3	3	10.50	3.847	31.1	0.0	4.2	7.2	0.0	1.4	0.1	42.8	0.4	1.55	25.0	0.099	0.099	7.4	0.787	0.52	0.00	0.00	0.00	0.42	5.03
105	3	3	10.40	3.849	31.1	0.0	4.1	7.2	0.0	1.4	0.1	43.7	0.4	1.55	25.0	0.099	0.099	7.4	0.787	0.52	0.00	0.00	0.00	0.42	5.03
106	3	3	10.30	3.852	31.1	0.0	4.1	7.2	0.0	1.4	0.1	44.5	0.4	1.55	25.0	0.099	0.099	7.4	0.787	0.52	0.00	0.00	0.00	0.42	5.03
107	3	3	10.20	3.854	31.1	0.0	4.1	7.2	0.0	1.4	0.1	45.4	0.4	1.55	25.0	0.099	0.099	7.4	0.788	0.52	0.00	0.00	0.00	0.42	5.03
108	3	3	10.10	3.856	31.1	0.0	4.1	7.2	0.0	1.4	0.1	46.2	0.4	1.55	25.0	0.100	0.100	7.4	0.788	0.52	0.00	0.00	0.00	0.42	5.03
109	3	3	10.00	3.858	31.1	0.0	4.1	7.2	0.0	1.4	0.1	47.1	0.4	1.55	25.0	0.100	0.100	7.4	0.788	0.52	0.00	0.00	0.00	0.42	5.03
110	3	3	9.90	3.860	31.1	0.0	4.1	7.1	0.0	1.4	0.1	47.9	0.4	1.55	25.0	0.100	0.100	7.4	0.788	0.52	0.00	0.00	0.00	0.42	5.03
111	3	3	9.80	3.863	31.1	0.0	4.1	7.1	0.0	1.4	0.1	48.8	0.4	1.55	25.0	0.100	0.100	7.4	0.789	0.52	0.00	0.00	0.00	0.42	5.03
112	3	3	9.70	3.865	31.1	0.0	4.1	7.1	0.0	1.4	0.1	49.6	0.4	1.55	25.0	0.100	0.100	7.4	0.789	0.52	0.00	0.00	0.00	0.42	5.03
113	3	3	9.60	3.867	31.1	0.0	4.1	7.1	0.0	1.4	0.1	50.5	0.4	1.55	25.0	0.100	0.100	7.4	0.789	0.52	0.00	0.00	0.00	0.42	5.03
114	3	3	9.50	3.869	31.1	0.0	4.1	7.1	0.0	1.4	0.1	51.3	0.4	1.55	25.0	0.100	0.100	7.4	0.789	0.52	0.00	0.00	0.00	0.42	5.03
115	3	3	9.40	3.871	31.1	0.0	4.1	7.1	0.0	1.4	0.1	52.2	0.4	1.55	25.0	0.100	0.100	7.4	0.789	0.52	0.00	0.00	0.00	0.42	5.03
116	3	3	9.30	3.873	31.1	0.0	4.1	7.1	0.0	1.4	0.1	53.0	0.4	1.55	25.0	0.100	0.100	7.4	0.790	0.52	0.00	0.00	0.00	0.42	5.03
117	4	4	9.20	3.873	31.1	0.0	4.1	7.1	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
118	4	4	9.10	3.873	31.1	0.0	4.1	7.0	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
119	4	4	9.00	3.873	31.1	0.0	4.1	7.0	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
120	4	4	8.90	3.873	31.1	0.0	4.1	7.0	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
121	4	4	8.80	3.873	31.1	0.0	4.1	7.0	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
122	4	4	8.70	3.873	31.1	0.0	4.2	7.0	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
123	4	4	8.60	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
124	4	4	8.50	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.42	4.02
125	4	4	8.40	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
126	4	4	8.30	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
127	4	4	8.20	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
128	4	4	8.10	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
129	4	4	8.00	3.873	31.1	0.0	4.2	6.9	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
130	4	4	7.90	3.873	31.1	0.0	4.2	6.8	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
131	4	4	7.80	3.873	31.1	0.0	4.2	6.8	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
132	4	4	7.70	3.873	31.1	0.0	4.2	6.8	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
133	4	4	7.60	3.873	31.1	0.0	4.3	6.8	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
134	4	4	7.50	3.873	31.1	0.0	4.3	6.8	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
135	4	4	7.40	3.873	31.1	0.0	4.3	6.8	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
136	4	4	7.30	3.873	31.1	0.0	4.3	6.7	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
137	4	4	7.20	3.873	31.1	0.0	4.3	6.7	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
138	4	4	7.10	3.873	31.1	0.0	4.3	6.7	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02

139	4	4	7.00	3.873	31.1	0.0	4.3	6.7	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
140	4	4	6.90	3.873	31.1	0.0	4.3	6.7	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
141	4	4	6.80	3.873	31.1	0.0	4.3	6.7	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
142	4	4	6.70	3.873	31.1	0.0	4.3	6.6	0.0	1.4	0.1	53.0	0.3	1.55	10.0	0.250	0.250	7.4	1.249	0.52	0.00	0.00	0.00	0.43	4.02
TRIBUTARY # 143 (Lake Theriot) ENTERS HERE																										
172	7	7	6.60	4.383	31.1	0.0	4.7	6.4	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
173	7	7	6.50	4.383	31.1	0.0	4.7	6.3	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
174	7	7	6.40	4.383	31.1	0.0	4.7	6.3	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02

EXPANDED CAPSULE SUMMARY FOR Lake de Cade

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN VELO	DO SAT	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
175	7	7	6.30	4.383	31.1	0.0	4.7	6.2	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
176	7	7	6.20	4.383	31.1	0.0	4.7	6.1	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
177	7	7	6.10	4.383	31.1	0.0	4.7	6.1	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
178	7	7	6.00	4.383	31.1	0.0	4.7	6.0	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
179	7	7	5.90	4.383	31.1	0.0	4.7	6.0	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
180	7	7	5.80	4.383	31.1	0.0	4.7	5.9	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
181	7	7	5.70	4.383	31.1	0.0	4.7	5.8	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
182	7	7	5.60	4.383	31.1	0.0	4.7	5.8	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
183	7	7	5.50	4.383	31.1	0.0	4.7	5.7	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
184	7	7	5.40	4.383	31.1	0.0	4.7	5.7	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
185	7	7	5.30	4.383	31.1	0.0	4.7	5.6	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
186	7	7	5.20	4.383	31.1	0.0	4.7	5.6	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
187	7	7	5.10	4.383	31.1	0.0	4.7	5.5	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
188	7	7	5.00	4.383	31.1	0.0	4.8	5.5	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
189	7	7	4.90	4.383	31.1	0.0	4.8	5.4	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
190	7	7	4.80	4.383	31.1	0.0	4.8	5.4	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
191	7	7	4.70	4.383	31.1	0.0	4.8	5.3	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
192	7	7	4.60	4.383	31.1	0.0	4.8	5.3	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
193	7	7	4.50	4.383	31.1	0.0	4.8	5.2	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
194	7	7	4.40	4.383	31.1	0.0	4.8	5.2	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
195	7	7	4.30	4.383	31.1	0.0	4.8	5.1	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
196	7	7	4.20	4.383	31.1	0.0	4.8	5.1	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
197	7	7	4.10	4.383	31.1	0.0	4.9	5.0	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
198	7	7	4.00	4.383	31.1	0.0	4.9	5.0	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
199	7	7	3.90	4.383	31.1	0.0	4.9	4.9	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
200	7	7	3.80	4.383	31.1	0.0	4.9	4.9	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
201	7	7	3.70	4.383	31.1	0.0	4.9	4.8	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
202	7	7	3.60	4.383	31.1	0.0	4.9	4.8	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
203	7	7	3.50	4.383	31.1	0.0	4.9	4.7	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
204	7	7	3.40	4.383	31.1	0.0	4.9	4.7	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
205	7	7	3.30	4.383	31.1	0.0	5.0	4.6	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
206	7	7	3.20	4.383	31.1	0.0	5.0	4.6	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
207	7	7	3.10	4.383	31.1	0.0	5.0	4.5	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
208	7	7	3.00	4.383	31.1	0.0	5.0	4.5	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
209	7	7	2.90	4.383	31.1	0.0	5.0	4.5	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
210	7	7	2.80	4.383	31.1	0.0	5.0	4.4	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
211	7	7	2.70	4.383	31.1	0.0	5.1	4.4	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
212	7	7	2.60	4.383	31.1	0.0	5.1	4.3	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02

213	7	7	2.50	4.383	31.1	0.0	5.1	4.3	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.44	4.02
214	7	7	2.40	4.383	31.1	0.0	5.1	4.2	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.45	4.02
215	7	7	2.30	4.383	31.1	0.0	5.1	4.2	0.0	1.3	0.1	53.0	0.1	1.55	46.0	0.061	0.061	7.4	0.619	0.52	0.00	0.00	0.00	0.45	4.02
216	8	8	2.20	4.383	31.1	0.0	5.2	4.1	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
217	8	8	2.10	4.383	31.1	0.0	5.2	4.0	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
218	8	8	2.00	4.383	31.1	0.0	5.2	3.9	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
219	8	8	1.90	4.383	31.1	0.0	5.3	3.8	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
220	8	8	1.80	4.383	31.1	0.0	5.3	3.7	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
221	8	8	1.70	4.383	31.1	0.0	5.4	3.7	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
222	8	8	1.60	4.383	31.1	0.0	5.4	3.6	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
223	8	8	1.50	4.383	31.1	0.0	5.4	3.5	0.0	1.3	0.1	53.0	0.1	1.55	110.0	0.026	0.026	7.4	0.554	0.52	0.00	0.00	0.00	0.45	4.02
224	9	9	1.40	4.383	31.1	0.0	5.5	3.5	0.0	1.3	0.1	57.6	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.45	4.02
225	9	9	1.30	4.383	31.1	0.0	5.5	3.5	0.0	1.3	0.1	62.1	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.45	4.02
226	9	9	1.20	4.383	31.1	0.0	5.5	3.4	0.0	1.3	0.1	66.7	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.45	4.02
227	9	9	1.10	4.383	31.1	0.0	5.5	3.4	0.0	1.3	0.1	71.2	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.45	4.02
228	9	9	1.00	4.383	31.1	0.0	5.6	3.4	0.0	1.3	0.1	75.8	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.45	4.02
229	9	9	0.90	4.383	31.1	0.0	5.6	3.4	0.0	1.3	0.1	80.3	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.45	4.02
230	9	9	0.80	4.383	31.1	0.0	5.7	3.3	0.0	1.3	0.1	84.9	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.46	4.02
231	9	9	0.70	4.383	31.1	0.0	5.7	3.3	0.0	1.3	0.1	89.4	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.46	4.02
232	9	9	0.60	4.383	31.1	0.0	5.8	3.3	0.0	1.3	0.1	94.0	0.1	1.55	30.0	0.094	0.094	7.4	0.767	0.52	0.00	0.00	0.00	0.46	4.02

TRIBUTARY # 233 (Lake Hache) ENTERS HERE

244	12	12	0.50	4.496	31.3	0.0	5.9	3.8	0.0	1.3	0.1	78.3	0.1	1.55	20.0	0.145	0.145	7.4	0.955	0.52	0.00	0.00	0.00	0.47	4.08
245	12	12	0.40	4.496	31.5	0.0	5.9	3.8	0.0	1.3	0.1	62.7	0.1	1.55	20.0	0.145	0.145	7.4	0.958	0.53	0.00	0.00	0.00	0.48	4.13
246	12	12	0.30	4.496	31.8	0.0	5.9	3.7	0.0	1.3	0.1	47.0	0.1	1.55	20.0	0.145	0.145	7.3	0.962	0.53	0.00	0.00	0.00	0.48	4.19
247	12	12	0.20	4.496	32.0	0.0	5.9	3.7	0.0	1.3	0.1	31.4	0.1	1.55	20.0	0.145	0.145	7.3	0.965	0.54	0.00	0.00	0.00	0.49	4.25
248	12	12	0.10	4.496	32.2	0.0	5.9	3.7	0.0	1.3	0.1	15.7	0.1	1.55	20.0	0.145	0.145	7.3	0.969	0.54	0.00	0.00	0.00	0.50	4.31
249	12	12	0.00	4.496	32.4	0.0	5.8	3.7	0.0	1.3	0.1	0.1	0.1	1.55	20.0	0.145	0.145	7.3	0.972	0.55	0.00	0.00	0.00	0.51	4.37

EXPANDED CAPSULE SUMMARY FOR Lake Theriot

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN VELO	DO SAT	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
143	5	5	2.80	0.030	31.1	0.0	6.7	3.6	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
144	5	5	2.70	0.050	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
145	5	5	2.60	0.070	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
146	5	5	2.50	0.090	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
147	5	5	2.40	0.110	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
148	5	5	2.30	0.130	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
149	5	5	2.20	0.150	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
150	5	5	2.10	0.170	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
151	5	5	2.00	0.190	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
152	5	5	1.90	0.210	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
153	5	5	1.80	0.230	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
154	5	5	1.70	0.250	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
155	5	5	1.60	0.270	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
156	5	5	1.50	0.290	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
157	5	5	1.40	0.310	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
158	5	5	1.30	0.330	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
159	5	5	1.20	0.350	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
160	5	5	1.10	0.370	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
161	5	5	1.00	0.390	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02

162	5	5	0.90	0.410	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
163	5	5	0.80	0.430	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
164	5	5	0.70	0.450	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
165	5	5	0.60	0.470	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
166	5	5	0.50	0.490	31.1	0.0	6.7	3.7	0.0	0.8	0.0	53.0	0.0	0.802	428.0	0.000	0.000	7.4	1.425	0.10	0.00	0.00	0.00	0.47	4.02
167	6	6	0.40	0.494	31.1	0.0	6.8	4.0	0.0	0.8	0.0	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02
168	6	6	0.30	0.498	31.1	0.0	6.9	4.2	0.0	0.9	0.1	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02
169	6	6	0.20	0.502	31.1	0.0	7.0	4.5	0.0	0.9	0.1	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02
170	6	6	0.10	0.506	31.1	0.0	7.0	4.7	0.0	0.9	0.1	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02
171	6	6	0.00	0.510	31.1	0.0	6.5	5.3	0.0	1.0	0.1	53.0	0.2	1.90	20.0	0.013	0.013	7.4	0.451	0.22	0.00	0.00	0.00	0.47	4.02

EXPANDED CAPSULE SUMMARY FOR Lake Hache

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	ADVEC VELO	MEAN VELO	DO SAT	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
233	10	10	1.00	0.011	31.1	0.0	8.7	26.1	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
234	10	10	0.90	0.021	31.1	0.0	8.7	25.1	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
235	10	10	0.80	0.030	31.1	0.0	8.7	24.9	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
236	10	10	0.70	0.040	31.1	0.0	8.7	24.8	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
237	10	10	0.60	0.050	31.1	0.0	8.7	24.8	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
238	10	10	0.50	0.060	31.1	0.0	8.7	24.7	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
239	10	10	0.40	0.070	31.1	0.0	8.7	24.7	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
240	10	10	0.30	0.079	31.1	0.0	8.7	24.7	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
241	10	10	0.20	0.089	31.1	0.0	8.7	24.7	0.0	1.8	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
242	10	10	0.10	0.099	31.1	0.0	8.7	21.5	0.0	1.7	0.0	94.0	0.0	0.75	970.0	0.000	0.000	7.4	1.520	0.02	0.00	0.00	0.00	0.48	4.02
243	11	11	0.00	0.113	31.1	0.0	6.9	11.9	0.0	1.5	0.1	94.0	0.1	1.55	50.0	0.001	0.001	7.4	0.554	0.52	0.00	0.00	0.00	0.47	4.02

SPECIAL REPORT: Lake de Cade

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOTN µg/L	PHOS **	CHL A	MACRO #/100mL	COLI	NCM *
1	20.800	31.10	0.0	0.0	0.0	6.49	2.72	0.00	2.72	0.00	0.81	0.09	0.02	0.93	0.00	20.0	0.0	0.	0.00
2	20.700	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.82	0.09	0.01	0.92	0.00	20.0	0.0	0.	0.00
3	20.600	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.82	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
4	20.500	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
5	20.400	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.84	0.08	0.00	0.92	0.00	20.0	0.0	0.	0.00
6	20.300	31.10	0.0	0.0	0.0	6.49	2.73	0.00	2.73	0.00	0.84	0.08	0.00	0.92	0.00	20.0	0.0	0.	0.00
7	20.200	31.10	0.0	0.0	0.0	6.49	2.74	0.00	2.74	0.00	0.85	0.07	0.00	0.92	0.00	20.0	0.0	0.	0.00
8	20.100	31.10	0.0	0.0	0.0	6.50	2.74	0.00	2.74	0.00	0.85	0.07	0.00	0.93	0.00	20.0	0.0	0.	0.00
9	20.000	31.10	0.0	0.0	0.0	6.50	2.74	0.00	2.74	0.00	0.86	0.07	0.00	0.93	0.00	20.0	0.0	0.	0.00
10	19.900	31.10	0.0	0.0	0.0	6.50	2.74	0.00	2.74	0.00	0.86	0.07	0.00	0.93	0.00	20.0	0.0	0.	0.00
11	19.800	31.10	0.0	0.0	0.0	6.50	2.74	0.00	2.74	0.00	0.87	0.07	0.00	0.94	0.00	20.0	0.0	0.	0.00
12	19.700	31.10	0.0	0.0	0.0	6.51	2.74	0.00	2.74	0.00	0.87	0.07	0.00	0.94	0.00	20.0	0.0	0.	0.00
13	19.600	31.10	0.0	0.0	0.0	6.51	2.74	0.00	2.74	0.00	0.88	0.07	0.00	0.95	0.00	20.0	0.0	0.	0.00
14	19.500	31.10	0.0	0.0	0.0	6.51	2.74	0.00	2.74	0.00	0.89	0.07	0.00	0.95	0.00	20.0	0.0	0.	0.00
15	19.400	31.10	0.0	0.0	0.0	6.51	2.74	0.00	2.74	0.00	0.89	0.06	0.00	0.95	0.00	20.0	0.0	0.	0.00
16	19.300	31.10	0.0	0.0	0.0	6.52	2.75	0.00	2.75	0.00	0.90	0.06	0.00	0.96	0.00	20.0	0.0	0.	0.00
17	19.200	31.10	0.0	0.0	0.0	6.52	2.75	0.00	2.75	0.00	0.90	0.06	0.00	0.96	0.00	20.0	0.0	0.	0.00
18	19.100	31.10	0.0	0.0	0.0	6.52	2.75	0.00	2.75	0.00	0.91	0.06	0.00	0.97	0.00	20.0	0.0	0.	0.00
19	19.000	31.10	0.0	0.0	0.0	6.52	2.75	0.00	2.75	0.00	0.91	0.06	0.00	0.97	0.00	20.0	0.0	0.	0.00
20	18.900	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.0	0.0	0.	0.00
21	18.800	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.0	0.0	0.	0.00

22	18.700	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.0	0.0	0.	0.00
23	18.600	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.93	0.06	0.00	0.99	0.00	20.0	0.0	0.	0.00
24	18.500	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.93	0.06	0.00	0.99	0.00	20.0	0.0	0.	0.00
25	18.400	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.94	0.06	0.00	1.00	0.00	20.0	0.0	0.	0.00
26	18.300	31.10	0.0	0.0	0.0	6.53	2.75	0.00	2.75	0.00	0.94	0.06	0.00	1.00	0.00	20.0	0.0	0.	0.00
27	18.200	31.10	0.0	0.0	0.0	6.54	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.01	0.00	20.0	0.0	0.	0.00
28	18.100	31.10	0.0	0.0	0.0	6.54	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.01	0.00	20.0	0.0	0.	0.00
29	18.000	31.10	0.0	0.0	0.0	6.54	2.75	0.00	2.75	0.00	0.96	0.06	0.00	1.01	0.00	20.0	0.0	0.	0.00
30	17.900	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.96	0.06	0.00	1.02	0.00	20.0	0.0	0.	0.00
31	17.800	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.02	0.00	20.0	0.0	0.	0.00
32	17.700	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.03	0.00	20.0	0.0	0.	0.00
33	17.600	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.03	0.00	20.0	0.0	0.	0.00
34	17.500	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.04	0.00	20.0	0.0	0.	0.00
35	17.400	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.04	0.00	20.0	0.0	0.	0.00
36	17.300	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.04	0.00	20.0	0.0	0.	0.00
37	17.200	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.05	0.00	20.0	0.0	0.	0.00
38	17.100	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.05	0.00	20.0	0.0	0.	0.00
39	17.000	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.06	0.00	20.0	0.0	0.	0.00
40	16.900	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.06	0.00	20.0	0.0	0.	0.00
41	16.800	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	1.01	0.06	0.00	1.06	0.00	20.0	0.0	0.	0.00
42	16.700	31.10	0.0	0.0	0.0	6.54	2.76	0.00	2.76	0.00	1.01	0.06	0.00	1.07	0.00	20.0	0.0	0.	0.00
43	16.600	31.10	0.0	0.0	0.0	6.54	2.77	0.00	2.77	0.00	1.01	0.06	0.00	1.07	0.00	20.0	0.0	0.	0.00
44	16.500	31.10	0.0	0.0	0.0	6.54	2.78	0.00	2.78	0.00	1.02	0.06	0.00	1.07	0.00	20.0	0.0	0.	0.00
45	16.400	31.10	0.0	0.0	0.0	6.53	2.81	0.00	2.81	0.00	1.02	0.06	0.00	1.08	0.00	20.0	0.0	0.	0.00
46	16.300	31.10	0.0	0.0	0.0	6.51	2.88	0.00	2.88	0.00	1.03	0.06	0.00	1.08	0.00	20.0	0.0	0.	0.00
47	16.200	31.10	0.0	0.0	0.0	6.47	3.06	0.00	3.06	0.00	1.03	0.06	0.00	1.09	0.00	20.0	0.0	0.	0.00
48	16.100	31.10	0.0	0.0	0.0	6.43	3.26	0.00	3.26	0.00	1.04	0.06	0.00	1.10	0.00	20.0	0.0	0.	0.00
49	16.000	31.10	0.0	0.0	0.0	6.38	3.45	0.00	3.45	0.00	1.04	0.07	0.00	1.11	0.00	20.0	0.0	0.	0.00
50	15.900	31.10	0.0	0.0	0.0	6.33	3.64	0.00	3.64	0.00	1.05	0.07	0.00	1.12	0.00	20.0	0.0	0.	0.00
51	15.800	31.10	0.0	0.0	0.0	6.28	3.83	0.00	3.83	0.00	1.06	0.07	0.00	1.13	0.00	20.0	0.0	0.	0.00
52	15.700	31.10	0.0	0.0	0.0	6.22	4.02	0.00	4.02	0.00	1.06	0.07	0.00	1.14	0.00	20.0	0.0	0.	0.00
53	15.600	31.10	0.0	0.0	0.0	6.17	4.20	0.00	4.20	0.00	1.07	0.08	0.00	1.15	0.00	20.0	0.0	0.	0.00
54	15.500	31.10	0.0	0.0	0.0	6.11	4.39	0.00	4.39	0.00	1.08	0.08	0.00	1.16	0.00	20.0	0.0	0.	0.00
55	15.400	31.10	0.0	0.0	0.0	6.05	4.57	0.00	4.57	0.00	1.09	0.08	0.00	1.17	0.00	20.0	0.0	0.	0.00
56	15.300	31.10	0.0	0.0	0.0	5.99	4.74	0.00	4.74	0.00	1.09	0.08	0.00	1.18	0.00	20.0	0.0	0.	0.00
57	15.200	31.10	0.0	0.0	0.0	5.93	4.92	0.00	4.92	0.00	1.10	0.09	0.00	1.19	0.00	20.0	0.0	0.	0.00
58	15.100	31.10	0.0	0.0	0.0	5.87	5.09	0.00	5.09	0.00	1.11	0.09	0.00	1.20	0.00	20.0	0.0	0.	0.00
59	15.000	31.10	0.0	0.0	0.0	5.81	5.26	0.00	5.26	0.00	1.12	0.09	0.00	1.21	0.00	20.0	0.0	0.	0.00
60	14.900	31.10	0.0	0.0	0.0	5.75	5.42	0.00	5.42	0.00	1.12	0.09	0.00	1.22	0.00	20.0	0.0	0.	0.00
61	14.800	31.10	0.0	0.0	0.0	5.69	5.59	0.00	5.59	0.00	1.13	0.09	0.00	1.23	0.00	20.0	0.0	0.	0.00
62	14.700	31.10	0.0	0.0	0.0	5.63	5.75	0.00	5.75	0.00	1.14	0.10	0.00	1.24	0.00	20.0	0.0	0.	0.00
63	14.600	31.10	0.0	0.0	0.0	5.57	5.90	0.00	5.90	0.00	1.15	0.10	0.00	1.25	0.00	20.0	0.0	0.	0.00
64	14.500	31.10	0.0	0.0	0.0	5.51	6.06	0.00	6.06	0.00	1.16	0.10	0.00	1.26	0.00	20.0	0.0	0.	0.00
65	14.400	31.10	0.0	0.0	0.0	5.45	6.21	0.00	6.21	0.00	1.17	0.10	0.00	1.27	0.00	20.0	0.0	0.	0.00
66	14.300	31.10	0.0	0.0	0.0	5.39	6.36	0.00	6.36	0.00	1.18	0.10	0.00	1.28	0.00	20.0	0.0	0.	0.00
67	14.200	31.10	0.0	0.0	0.0	5.33	6.51	0.00	6.51	0.00	1.19	0.10	0.00	1.29	0.00	20.0	0.0	0.	0.00
68	14.100	31.10	0.0	0.0	0.0	5.27	6.65	0.00	6.65	0.00	1.20	0.10	0.00	1.30	0.00	20.0	0.0	0.	0.00
69	14.000	31.10	0.0	0.0	0.0	5.22	6.79	0.00	6.79	0.00	1.21	0.10	0.00	1.31	0.00	20.0	0.0	0.	0.00
70	13.900	31.10	0.0	0.0	0.0	5.16	6.92	0.00	6.92	0.00	1.22	0.11	0.00	1.32	0.00	20.0	0.0	0.	0.00
71	13.800	31.10	0.0	0.0	0.0	5.10	7.05	0.00	7.05	0.00	1.23	0.11	0.00	1.34	0.00	20.0	0.0	0.	0.00

72	13.700	31.10	0.0	0.0	0.0	5.05	7.18	0.00	7.18	0.00	1.24	0.11	0.00	1.35	0.00	20.0	0.0	0.	0.00
73	13.600	31.10	0.0	0.0	0.0	5.00	7.29	0.00	7.29	0.00	1.25	0.11	0.00	1.36	0.00	20.0	0.0	0.	0.00
74	13.500	31.10	0.0	0.0	0.0	4.95	7.40	0.00	7.40	0.00	1.26	0.11	0.00	1.37	0.00	20.0	0.0	0.	0.00
75	13.400	31.10	0.0	0.0	0.0	4.91	7.50	0.00	7.50	0.00	1.27	0.11	0.00	1.38	0.00	20.0	0.0	0.	0.00
76	13.300	31.10	0.0	0.0	0.0	4.88	7.57	0.00	7.57	0.00	1.28	0.11	0.00	1.39	0.00	20.0	0.0	0.	0.00
77	13.200	31.10	0.0	0.0	0.0	4.85	7.62	0.00	7.62	0.00	1.29	0.11	0.00	1.40	0.00	20.0	0.0	0.	0.00
78	13.100	31.10	0.0	0.0	0.0	4.83	7.61	0.00	7.61	0.00	1.29	0.11	0.00	1.40	0.00	20.8	0.0	0.	0.00
79	13.000	31.10	0.0	0.0	0.0	4.79	7.59	0.00	7.59	0.00	1.29	0.11	0.00	1.40	0.00	21.7	0.0	0.	0.00
80	12.900	31.10	0.0	0.0	0.0	4.75	7.58	0.00	7.58	0.00	1.29	0.11	0.00	1.40	0.00	22.5	0.0	0.	0.00
81	12.800	31.10	0.0	0.0	0.0	4.71	7.56	0.00	7.56	0.00	1.29	0.11	0.00	1.41	0.00	23.4	0.0	0.	0.00
82	12.700	31.10	0.0	0.0	0.0	4.67	7.54	0.00	7.54	0.00	1.30	0.11	0.00	1.41	0.00	24.2	0.0	0.	0.00
83	12.600	31.10	0.0	0.0	0.0	4.64	7.53	0.00	7.53	0.00	1.30	0.11	0.00	1.41	0.00	25.1	0.0	0.	0.00
84	12.500	31.10	0.0	0.0	0.0	4.60	7.51	0.00	7.51	0.00	1.30	0.11	0.00	1.41	0.00	25.9	0.0	0.	0.00
85	12.400	31.10	0.0	0.0	0.0	4.57	7.50	0.00	7.50	0.00	1.30	0.11	0.00	1.42	0.00	26.8	0.0	0.	0.00
86	12.300	31.10	0.0	0.0	0.0	4.54	7.48	0.00	7.48	0.00	1.31	0.11	0.00	1.42	0.00	27.6	0.0	0.	0.00
87	12.200	31.10	0.0	0.0	0.0	4.51	7.47	0.00	7.47	0.00	1.31	0.11	0.00	1.42	0.00	28.5	0.0	0.	0.00
88	12.100	31.10	0.0	0.0	0.0	4.48	7.45	0.00	7.45	0.00	1.31	0.11	0.00	1.42	0.00	29.3	0.0	0.	0.00
89	12.000	31.10	0.0	0.0	0.0	4.45	7.44	0.00	7.44	0.00	1.31	0.11	0.00	1.43	0.00	30.2	0.0	0.	0.00
90	11.900	31.10	0.0	0.0	0.0	4.42	7.42	0.00	7.42	0.00	1.32	0.11	0.00	1.43	0.00	31.0	0.0	0.	0.00
91	11.800	31.10	0.0	0.0	0.0	4.39	7.41	0.00	7.41	0.00	1.32	0.11	0.00	1.43	0.00	31.8	0.0	0.	0.00
92	11.700	31.10	0.0	0.0	0.0	4.37	7.39	0.00	7.39	0.00	1.32	0.11	0.00	1.43	0.00	32.7	0.0	0.	0.00
93	11.600	31.10	0.0	0.0	0.0	4.34	7.38	0.00	7.38	0.00	1.32	0.11	0.00	1.44	0.00	33.5	0.0	0.	0.00
94	11.500	31.10	0.0	0.0	0.0	4.32	7.36	0.00	7.36	0.00	1.33	0.11	0.00	1.44	0.00	34.4	0.0	0.	0.00
95	11.400	31.10	0.0	0.0	0.0	4.30	7.35	0.00	7.35	0.00	1.33	0.11	0.00	1.44	0.00	35.2	0.0	0.	0.00
96	11.300	31.10	0.0	0.0	0.0	4.28	7.33	0.00	7.33	0.00	1.33	0.11	0.00	1.45	0.00	36.1	0.0	0.	0.00
97	11.200	31.10	0.0	0.0	0.0	4.26	7.32	0.00	7.32	0.00	1.33	0.11	0.00	1.45	0.00	36.9	0.0	0.	0.00
98	11.100	31.10	0.0	0.0	0.0	4.24	7.30	0.00	7.30	0.00	1.34	0.11	0.00	1.45	0.00	37.8	0.0	0.	0.00
99	11.000	31.10	0.0	0.0	0.0	4.23	7.29	0.00	7.29	0.00	1.34	0.11	0.00	1.45	0.00	38.6	0.0	0.	0.00
100	10.900	31.10	0.0	0.0	0.0	4.21	7.28	0.00	7.28	0.00	1.34	0.11	0.00	1.46	0.00	39.5	0.0	0.	0.00
101	10.800	31.10	0.0	0.0	0.0	4.20	7.26	0.00	7.26	0.00	1.34	0.11	0.00	1.46	0.00	40.3	0.0	0.	0.00
102	10.700	31.10	0.0	0.0	0.0	4.18	7.25	0.00	7.25	0.00	1.35	0.11	0.00	1.46	0.00	41.2	0.0	0.	0.00
103	10.600	31.10	0.0	0.0	0.0	4.17	7.24	0.00	7.24	0.00	1.35	0.11	0.00	1.46	0.00	42.0	0.0	0.	0.00
104	10.500	31.10	0.0	0.0	0.0	4.16	7.22	0.00	7.22	0.00	1.35	0.11	0.00	1.47	0.00	42.8	0.0	0.	0.00
105	10.400	31.10	0.0	0.0	0.0	4.15	7.21	0.00	7.21	0.00	1.35	0.11	0.00	1.47	0.00	43.7	0.0	0.	0.00
106	10.300	31.10	0.0	0.0	0.0	4.14	7.20	0.00	7.20	0.00	1.36	0.11	0.00	1.47	0.00	44.5	0.0	0.	0.00
107	10.200	31.10	0.0	0.0	0.0	4.13	7.18	0.00	7.18	0.00	1.36	0.11	0.00	1.47	0.00	45.4	0.0	0.	0.00
108	10.100	31.10	0.0	0.0	0.0	4.12	7.17	0.00	7.17	0.00	1.36	0.12	0.00	1.48	0.00	46.2	0.0	0.	0.00
109	10.000	31.10	0.0	0.0	0.0	4.11	7.16	0.00	7.16	0.00	1.36	0.12	0.00	1.48	0.00	47.1	0.0	0.	0.00
110	9.900	31.10	0.0	0.0	0.0	4.11	7.14	0.00	7.14	0.00	1.37	0.12	0.00	1.48	0.00	47.9	0.0	0.	0.00
111	9.800	31.10	0.0	0.0	0.0	4.10	7.13	0.00	7.13	0.00	1.37	0.12	0.00	1.48	0.00	48.8	0.0	0.	0.00
112	9.700	31.10	0.0	0.0	0.0	4.10	7.12	0.00	7.12	0.00	1.37	0.12	0.00	1.49	0.00	49.6	0.0	0.	0.00
113	9.600	31.10	0.0	0.0	0.0	4.10	7.10	0.00	7.10	0.00	1.37	0.12	0.00	1.49	0.00	50.5	0.0	0.	0.00
114	9.500	31.10	0.0	0.0	0.0	4.09	7.09	0.00	7.09	0.00	1.38	0.12	0.00	1.49	0.00	51.3	0.0	0.	0.00
115	9.400	31.10	0.0	0.0	0.0	4.09	7.08	0.00	7.08	0.00	1.38	0.12	0.00	1.49	0.00	52.2	0.0	0.	0.00
116	9.300	31.10	0.0	0.0	0.0	4.09	7.07	0.00	7.07	0.00	1.38	0.12	0.00	1.50	0.00	53.0	0.0	0.	0.00
117	9.200	31.10	0.0	0.0	0.0	4.10	7.05	0.00	7.05	0.00	1.38	0.12	0.00	1.50	0.00	53.0	0.0	0.	0.00
118	9.100	31.10	0.0	0.0	0.0	4.11	7.03	0.00	7.03	0.00	1.38	0.12	0.00	1.50	0.00	53.0	0.0	0.	0.00
119	9.000	31.10	0.0	0.0	0.0	4.12	7.02	0.00	7.02	0.00	1.38	0.12	0.00	1.50	0.00	53.0	0.0	0.	0.00
120	8.900	31.10	0.0	0.0	0.0	4.13	7.00	0.00	7.00	0.00	1.38	0.12	0.00	1.50	0.00	53.0	0.0	0.	0.00
121	8.800	31.10	0.0	0.0	0.0	4.14	6.98	0.00	6.98	0.00	1.38	0.12	0.00	1.50	0.00	53.0	0.0	0.	0.00

122	8.700	31.10	0.0	0.0	0.0	4.15	6.97	0.00	6.97	0.00	1.38	0.12	0.00	1.49	0.00	53.0	0.0	0.	0.00
123	8.600	31.10	0.0	0.0	0.0	4.16	6.95	0.00	6.95	0.00	1.38	0.12	0.00	1.49	0.00	53.0	0.0	0.	0.00
124	8.500	31.10	0.0	0.0	0.0	4.17	6.93	0.00	6.93	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
125	8.400	31.10	0.0	0.0	0.0	4.18	6.92	0.00	6.92	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
126	8.300	31.10	0.0	0.0	0.0	4.19	6.90	0.00	6.90	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
127	8.200	31.10	0.0	0.0	0.0	4.20	6.88	0.00	6.88	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
128	8.100	31.10	0.0	0.0	0.0	4.21	6.87	0.00	6.87	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
129	8.000	31.10	0.0	0.0	0.0	4.22	6.85	0.00	6.85	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
130	7.900	31.10	0.0	0.0	0.0	4.23	6.83	0.00	6.83	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
131	7.800	31.10	0.0	0.0	0.0	4.24	6.82	0.00	6.82	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
132	7.700	31.10	0.0	0.0	0.0	4.25	6.80	0.00	6.80	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
133	7.600	31.10	0.0	0.0	0.0	4.26	6.79	0.00	6.79	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
134	7.500	31.10	0.0	0.0	0.0	4.27	6.77	0.00	6.77	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
135	7.400	31.10	0.0	0.0	0.0	4.28	6.75	0.00	6.75	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
136	7.300	31.10	0.0	0.0	0.0	4.28	6.74	0.00	6.74	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
137	7.200	31.10	0.0	0.0	0.0	4.29	6.72	0.00	6.72	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
138	7.100	31.10	0.0	0.0	0.0	4.30	6.71	0.00	6.71	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
139	7.000	31.10	0.0	0.0	0.0	4.31	6.69	0.00	6.69	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
140	6.900	31.10	0.0	0.0	0.0	4.32	6.67	0.00	6.67	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
141	6.800	31.10	0.0	0.0	0.0	4.33	6.66	0.00	6.66	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
142	6.700	31.10	0.0	0.0	0.0	4.35	6.64	0.00	6.64	0.00	1.38	0.11	0.00	1.49	0.00	53.0	0.0	0.	0.00
172	6.600	31.10	0.0	0.0	0.0	4.67	6.37	0.00	6.37	0.00	1.32	0.11	0.00	1.43	0.00	53.0	0.0	0.	0.00
173	6.500	31.10	0.0	0.0	0.0	4.68	6.31	0.00	6.31	0.00	1.32	0.11	0.00	1.43	0.00	53.0	0.0	0.	0.00
174	6.400	31.10	0.0	0.0	0.0	4.68	6.25	0.00	6.25	0.00	1.32	0.11	0.00	1.42	0.00	53.0	0.0	0.	0.00
175	6.300	31.10	0.0	0.0	0.0	4.68	6.19	0.00	6.19	0.00	1.32	0.11	0.00	1.42	0.00	53.0	0.0	0.	0.00
176	6.200	31.10	0.0	0.0	0.0	4.68	6.13	0.00	6.13	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
177	6.100	31.10	0.0	0.0	0.0	4.69	6.07	0.00	6.07	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
178	6.000	31.10	0.0	0.0	0.0	4.69	6.01	0.00	6.01	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
179	5.900	31.10	0.0	0.0	0.0	4.69	5.96	0.00	5.96	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
180	5.800	31.10	0.0	0.0	0.0	4.70	5.90	0.00	5.90	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
181	5.700	31.10	0.0	0.0	0.0	4.70	5.84	0.00	5.84	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
182	5.600	31.10	0.0	0.0	0.0	4.71	5.79	0.00	5.79	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
183	5.500	31.10	0.0	0.0	0.0	4.72	5.73	0.00	5.73	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
184	5.400	31.10	0.0	0.0	0.0	4.72	5.67	0.00	5.67	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
185	5.300	31.10	0.0	0.0	0.0	4.73	5.62	0.00	5.62	0.00	1.32	0.10	0.00	1.42	0.00	53.0	0.0	0.	0.00
186	5.200	31.10	0.0	0.0	0.0	4.74	5.57	0.00	5.57	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
187	5.100	31.10	0.0	0.0	0.0	4.75	5.51	0.00	5.51	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
188	5.000	31.10	0.0	0.0	0.0	4.76	5.46	0.00	5.46	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
189	4.900	31.10	0.0	0.0	0.0	4.76	5.41	0.00	5.41	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
190	4.800	31.10	0.0	0.0	0.0	4.77	5.35	0.00	5.35	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
191	4.700	31.10	0.0	0.0	0.0	4.78	5.30	0.00	5.30	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
192	4.600	31.10	0.0	0.0	0.0	4.79	5.25	0.00	5.25	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
193	4.500	31.10	0.0	0.0	0.0	4.81	5.20	0.00	5.20	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
194	4.400	31.10	0.0	0.0	0.0	4.82	5.15	0.00	5.15	0.00	1.31	0.10	0.00	1.41	0.00	53.0	0.0	0.	0.00
195	4.300	31.10	0.0	0.0	0.0	4.83	5.10	0.00	5.10	0.00	1.31	0.09	0.00	1.41	0.00	53.0	0.0	0.	0.00
196	4.200	31.10	0.0	0.0	0.0	4.84	5.05	0.00	5.05	0.00	1.31	0.09	0.00	1.41	0.00	53.0	0.0	0.	0.00
197	4.100	31.10	0.0	0.0	0.0	4.85	5.00	0.00	5.00	0.00	1.31	0.09	0.00	1.41	0.00	53.0	0.0	0.	0.00
198	4.000	31.10	0.0	0.0	0.0	4.86	4.96	0.00	4.96	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
199	3.900	31.10	0.0	0.0	0.0	4.88	4.91	0.00	4.91	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
200	3.800	31.10	0.0	0.0	0.0	4.89	4.86	0.00	4.86	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00

201	3.700	31.10	0.0	0.0	0.0	4.90	4.81	0.00	4.81	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
202	3.600	31.10	0.0	0.0	0.0	4.92	4.77	0.00	4.77	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
203	3.500	31.10	0.0	0.0	0.0	4.93	4.72	0.00	4.72	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
204	3.400	31.10	0.0	0.0	0.0	4.95	4.68	0.00	4.68	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
205	3.300	31.10	0.0	0.0	0.0	4.96	4.63	0.00	4.63	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
206	3.200	31.10	0.0	0.0	0.0	4.97	4.59	0.00	4.59	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
207	3.100	31.10	0.0	0.0	0.0	4.99	4.54	0.00	4.54	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
208	3.000	31.10	0.0	0.0	0.0	5.01	4.50	0.00	4.50	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
209	2.900	31.10	0.0	0.0	0.0	5.02	4.46	0.00	4.46	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
210	2.800	31.10	0.0	0.0	0.0	5.04	4.41	0.00	4.41	0.00	1.31	0.09	0.00	1.40	0.00	53.0	0.0	0.	0.00
211	2.700	31.10	0.0	0.0	0.0	5.05	4.37	0.00	4.37	0.00	1.31	0.09	0.00	1.39	0.00	53.0	0.0	0.	0.00
212	2.600	31.10	0.0	0.0	0.0	5.07	4.33	0.00	4.33	0.00	1.31	0.09	0.00	1.39	0.00	53.0	0.0	0.	0.00
213	2.500	31.10	0.0	0.0	0.0	5.09	4.29	0.00	4.29	0.00	1.31	0.09	0.00	1.39	0.00	53.0	0.0	0.	0.00
214	2.400	31.10	0.0	0.0	0.0	5.10	4.25	0.00	4.25	0.00	1.31	0.09	0.00	1.39	0.00	53.0	0.0	0.	0.00
215	2.300	31.10	0.0	0.0	0.0	5.12	4.20	0.00	4.20	0.00	1.31	0.09	0.00	1.39	0.00	53.0	0.0	0.	0.00
216	2.200	31.10	0.0	0.0	0.0	5.16	4.11	0.00	4.11	0.00	1.31	0.08	0.00	1.39	0.00	53.0	0.0	0.	0.00
217	2.100	31.10	0.0	0.0	0.0	5.19	4.01	0.00	4.01	0.00	1.30	0.08	0.00	1.39	0.00	53.0	0.0	0.	0.00
218	2.000	31.10	0.0	0.0	0.0	5.23	3.92	0.00	3.92	0.00	1.30	0.08	0.00	1.39	0.00	53.0	0.0	0.	0.00
219	1.900	31.10	0.0	0.0	0.0	5.27	3.83	0.00	3.83	0.00	1.30	0.08	0.00	1.39	0.00	53.0	0.0	0.	0.00
220	1.800	31.10	0.0	0.0	0.0	5.31	3.75	0.00	3.75	0.00	1.30	0.08	0.00	1.38	0.00	53.0	0.0	0.	0.00
221	1.700	31.10	0.0	0.0	0.0	5.35	3.66	0.00	3.66	0.00	1.30	0.08	0.00	1.38	0.00	53.0	0.0	0.	0.00
222	1.600	31.10	0.0	0.0	0.0	5.39	3.58	0.00	3.58	0.00	1.30	0.08	0.00	1.38	0.00	53.0	0.0	0.	0.00
223	1.500	31.10	0.0	0.0	0.0	5.44	3.50	0.00	3.50	0.00	1.30	0.08	0.00	1.38	0.00	53.0	0.0	0.	0.00
224	1.400	31.10	0.0	0.0	0.0	5.46	3.48	0.00	3.48	0.00	1.30	0.08	0.00	1.38	0.00	57.6	0.0	0.	0.00
225	1.300	31.10	0.0	0.0	0.0	5.48	3.46	0.00	3.46	0.00	1.30	0.08	0.00	1.38	0.00	62.1	0.0	0.	0.00
226	1.200	31.10	0.0	0.0	0.0	5.51	3.43	0.00	3.43	0.00	1.30	0.08	0.00	1.38	0.00	66.7	0.0	0.	0.00
227	1.100	31.10	0.0	0.0	0.0	5.55	3.41	0.00	3.41	0.00	1.30	0.08	0.00	1.38	0.00	71.2	0.0	0.	0.00
228	1.000	31.10	0.0	0.0	0.0	5.59	3.39	0.00	3.39	0.00	1.30	0.08	0.00	1.38	0.00	75.8	0.0	0.	0.00
229	0.900	31.10	0.0	0.0	0.0	5.63	3.37	0.00	3.37	0.00	1.30	0.08	0.00	1.38	0.00	80.3	0.0	0.	0.00
230	0.800	31.10	0.0	0.0	0.0	5.68	3.35	0.00	3.35	0.00	1.30	0.08	0.00	1.38	0.00	84.9	0.0	0.	0.00
231	0.700	31.10	0.0	0.0	0.0	5.73	3.33	0.00	3.33	0.00	1.30	0.08	0.00	1.38	0.00	89.4	0.0	0.	0.00
232	0.600	31.10	0.0	0.0	0.0	5.79	3.31	0.00	3.31	0.00	1.30	0.08	0.00	1.38	0.00	94.0	0.0	0.	0.00
244	0.500	31.32	0.0	0.0	0.0	5.87	3.78	0.00	3.78	0.00	1.31	0.08	0.00	1.39	0.00	78.3	0.0	0.	0.00
245	0.400	31.53	0.0	0.0	0.0	5.89	3.77	0.00	3.77	0.00	1.31	0.08	0.00	1.39	0.00	62.7	0.0	0.	0.00
246	0.300	31.75	0.0	0.0	0.0	5.89	3.75	0.00	3.75	0.00	1.31	0.08	0.00	1.39	0.00	47.0	0.0	0.	0.00
247	0.200	31.97	0.0	0.0	0.0	5.89	3.73	0.00	3.73	0.00	1.31	0.08	0.00	1.39	0.00	31.4	0.0	0.	0.00
248	0.100	32.18	0.0	0.0	0.0	5.87	3.72	0.00	3.72	0.00	1.31	0.08	0.00	1.39	0.00	15.7	0.0	0.	0.00
249	0.000	32.40	0.0	0.0	0.0	5.84	3.72	0.00	3.72	0.00	1.29	0.08	0.00	1.37	0.00	0.1	0.0	0.	0.00

SPECIAL REPORT: Lake Theriot

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	*	*	CM-I mg/L	CM-II mg/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS	CHL A	MACRO #/100mL	COLI	NCM *
143	2.800	31.10	0.0	0.0	0.0	6.66	3.64	0.00	3.64	0.00	0.84	0.04	0.00	0.89	0.00	53.0	0.0	0.	0.00		
144	2.700	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.84	0.04	0.00	0.88	0.00	53.0	0.0	0.	0.00		
145	2.600	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.84	0.04	0.00	0.88	0.00	53.0	0.0	0.	0.00		
146	2.500	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00		
147	2.400	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00		
148	2.300	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00		
149	2.200	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00		
150	2.100	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00		

151	2.000	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
152	1.900	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
153	1.800	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
154	1.700	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
155	1.600	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
156	1.500	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
157	1.400	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
158	1.300	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
159	1.200	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
160	1.100	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
161	1.000	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
162	0.900	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
163	0.800	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
164	0.700	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
165	0.600	31.10	0.0	0.0	0.0	6.66	3.68	0.00	3.68	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
166	0.500	31.10	0.0	0.0	0.0	6.66	3.69	0.00	3.69	0.00	0.83	0.04	0.00	0.87	0.00	53.0	0.0	0.	0.00
167	0.400	31.10	0.0	0.0	0.0	6.80	3.97	0.00	3.97	0.00	0.84	0.05	0.00	0.89	0.00	53.0	0.0	0.	0.00
168	0.300	31.10	0.0	0.0	0.0	6.91	4.22	0.00	4.22	0.00	0.85	0.05	0.00	0.91	0.00	53.0	0.0	0.	0.00
169	0.200	31.10	0.0	0.0	0.0	7.01	4.46	0.00	4.46	0.00	0.86	0.06	0.00	0.92	0.00	53.0	0.0	0.	0.00
170	0.100	31.10	0.0	0.0	0.0	7.02	4.74	0.00	4.74	0.00	0.88	0.07	0.00	0.95	0.00	53.0	0.0	0.	0.00
171	0.000	31.10	0.0	0.0	0.0	6.48	5.30	0.00	5.30	0.00	1.00	0.08	0.00	1.08	0.00	53.0	0.0	0.	0.00

SPECIAL REPORT: Lake Hache

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	CM-I *	CM-II *	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOTN mg/L	PHOS µg/L	CHL A **	MACRO #/100mL	COLI *	NCM
233	1.000	31.10	0.0	0.0	0.0	8.67	26.12	0.00	26.12	0.00	1.84	0.04	0.00	1.88	0.00	94.0	0.0	0.	0.00
234	0.900	31.10	0.0	0.0	0.0	8.68	25.14	0.00	25.14	0.00	1.83	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
235	0.800	31.10	0.0	0.0	0.0	8.68	24.91	0.00	24.91	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
236	0.700	31.10	0.0	0.0	0.0	8.68	24.82	0.00	24.82	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
237	0.600	31.10	0.0	0.0	0.0	8.68	24.77	0.00	24.77	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
238	0.500	31.10	0.0	0.0	0.0	8.69	24.75	0.00	24.75	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
239	0.400	31.10	0.0	0.0	0.0	8.69	24.74	0.00	24.74	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
240	0.300	31.10	0.0	0.0	0.0	8.69	24.73	0.00	24.73	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
241	0.200	31.10	0.0	0.0	0.0	8.69	24.72	0.00	24.72	0.00	1.82	0.04	0.00	1.86	0.00	94.0	0.0	0.	0.00
242	0.100	31.10	0.0	0.0	0.0	8.66	21.46	0.00	21.46	0.00	1.74	0.04	0.00	1.78	0.00	94.0	0.0	0.	0.00
243	0.000	31.10	0.0	0.0	0.0	6.86	11.94	0.00	11.94	0.00	1.53	0.10	0.00	1.63	0.00	94.0	0.0	0.	0.00

SPECIAL REPORT: Lake de Cade

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#1 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY *	SOD *	FULL SOD *	CORR DECAY 1/da	ORG-N SETT *	ORG-N DECAY 1/da	NH3 SRCE **	NH3 RATE **	DENIT SRCE 1/da	PO4 PROD 1/da	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	20.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	0.00	
2	20.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00		
3	20.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00		
4	20.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00		
5	20.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00		
6	20.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00		
7	20.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00		
8	20.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00		
9	20.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00		

10	19.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
11	19.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
12	19.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
13	19.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
14	19.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
15	19.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
16	19.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
17	19.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
18	19.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
19	19.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
20	18.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
21	18.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
22	18.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
23	18.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
24	18.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
25	18.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
26	18.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
27	18.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
28	18.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
29	18.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
30	17.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
31	17.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
32	17.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
33	17.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
34	17.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
35	17.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
36	17.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
37	17.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
38	17.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
39	17.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
40	16.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
41	16.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
42	16.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
43	16.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
44	16.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
45	16.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
46	16.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
47	16.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
48	16.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
49	16.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
50	15.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
51	15.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
52	15.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
53	15.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
54	15.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
55	15.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
56	15.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
57	15.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
58	15.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
59	15.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00

60	14.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
61	14.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
62	14.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
63	14.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
64	14.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
65	14.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
66	14.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
67	14.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
68	14.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
69	14.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
70	13.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
71	13.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
72	13.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
73	13.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
74	13.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
75	13.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
76	13.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
77	13.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
78	13.100	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
79	13.000	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
80	12.900	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00
81	12.800	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00
82	12.700	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
83	12.600	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
84	12.500	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
85	12.400	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.00
86	12.300	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00
87	12.200	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00
88	12.100	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00
89	12.000	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00
90	11.900	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.58	0.00	0.00	0.00	0.00
91	11.800	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00
92	11.700	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
93	11.600	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00
94	11.500	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
95	11.400	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00
96	11.300	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
97	11.200	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00
98	11.100	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00
99	11.000	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00
100	10.900	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
101	10.800	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.36	0.00	0.00	0.00	0.00
102	10.700	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00
103	10.600	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00
104	10.500	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00
105	10.400	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.64	0.00	0.00	0.00	0.00
106	10.300	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.71	0.00	0.00	0.00	0.00
107	10.200	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00
108	10.100	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.85	0.00	0.00	0.00	0.00
109	10.000	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00

110	9.900	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.99	0.00	0.00	0.00	0.00
111	9.800	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.06	0.00	0.00	0.00	0.00
112	9.700	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.13	0.00	0.00	0.00	0.00
113	9.600	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00
114	9.500	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.27	0.00	0.00	0.00	0.00
115	9.400	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00
116	9.300	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
117	9.200	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
118	9.100	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
119	9.000	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
120	8.900	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
121	8.800	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
122	8.700	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
123	8.600	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
124	8.500	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
125	8.400	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
126	8.300	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
127	8.200	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
128	8.100	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
129	8.000	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
130	7.900	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
131	7.800	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
132	7.700	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
133	7.600	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
134	7.500	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
135	7.400	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
136	7.300	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
137	7.200	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
138	7.100	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
139	7.000	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
140	6.900	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
141	6.800	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
142	6.700	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
172	6.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
173	6.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
174	6.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
175	6.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
176	6.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
177	6.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
178	6.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
179	5.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
180	5.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
181	5.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
182	5.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
183	5.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
184	5.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
185	5.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
186	5.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
187	5.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
188	5.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00

189	4.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
190	4.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
191	4.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
192	4.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
193	4.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
194	4.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
195	4.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
196	4.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
197	4.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
198	4.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
199	3.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
200	3.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
201	3.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
202	3.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
203	3.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
204	3.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
205	3.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
206	3.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
207	3.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
208	3.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
209	2.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
210	2.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
211	2.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
212	2.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
213	2.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
214	2.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
215	2.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
216	2.200	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
217	2.100	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
218	2.000	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
219	1.900	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
220	1.800	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
221	1.700	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
222	1.600	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
223	1.500	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
224	1.400	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.79	0.00	0.00	0.00	0.00
225	1.300	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.17	0.00	0.00	0.00	0.00
226	1.200	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.55	0.00	0.00	0.00	0.00
227	1.100	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	5.93	0.00	0.00	0.00	0.00
228	1.000	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	6.31	0.00	0.00	0.00	0.00
229	0.900	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
230	0.800	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.46	0.00	0.00	0.00	7.07	0.00	0.00	0.00	0.00
231	0.700	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.46	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00
232	0.600	7.42	0.77	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.46	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
244	0.500	7.39	0.95	0.52	0.00	0.00	0.00	0.00	0.00	4.08	4.08	0.01	0.00	0.47	0.00	0.00	0.00	6.59	0.00	0.00	0.00	0.00
245	0.400	7.36	0.96	0.53	0.00	0.00	0.00	0.00	0.00	4.13	4.13	0.01	0.00	0.48	0.00	0.00	0.00	5.32	0.00	0.00	0.00	0.00
246	0.300	7.34	0.96	0.53	0.00	0.00	0.00	0.00	0.00	4.19	4.19	0.01	0.00	0.48	0.00	0.00	0.00	4.04	0.00	0.00	0.00	0.00
247	0.200	7.31	0.97	0.54	0.00	0.00	0.00	0.00	0.00	4.25	4.25	0.01	0.00	0.49	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00
248	0.100	7.28	0.97	0.54	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.01	0.00	0.50	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
249	0.000	7.26	0.97	0.55	0.00	0.00	0.00	0.00	0.00	4.37	4.37	0.01	0.00	0.51	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00

SPECIAL REPORT: Lake Theriot
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SOD *	FULL SOD *	CORR DECAY 1/da	ORG-N SETT *	ORG-N DECAY 1/da	NH3 SRCE **	NH3 RATE **	DENIT SRCE 1/da	PO4 PROD 1/da	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da
143	2.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
144	2.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
145	2.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
146	2.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
147	2.400	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
148	2.300	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
149	2.200	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
150	2.100	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
151	2.000	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
152	1.900	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
153	1.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
154	1.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
155	1.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
156	1.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
157	1.400	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
158	1.300	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
159	1.200	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
160	1.100	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
161	1.000	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
162	0.900	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
163	0.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
164	0.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
165	0.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
166	0.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
167	0.400	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
168	0.300	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
169	0.200	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
170	0.100	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
171	0.000	7.42	0.45	0.22	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00

SPECIAL REPORT: Lake Hache
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SOD *	FULL SOD *	CORR DECAY 1/da	ORG-N SETT *	ORG-N DECAY 1/da	NH3 SRCE **	NH3 RATE **	DENIT SRCE 1/da	PO4 PROD 1/da	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da
233	1.000	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
234	0.900	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
235	0.800	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
236	0.700	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
237	0.600	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
238	0.500	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
239	0.400	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
240	0.300	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
241	0.200	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
242	0.100	7.42	1.52	0.02	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.00	0.00	0.48	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
243	0.000	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00

SPECIAL REPORT: Lake de Cade
HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	ADVCTV VELO	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	PRISM	TIDAL VELO	TIDAL	DISPRSN	MEAN VELO
	km	km	m³/s	m/s	m	m	m³	m²	m²	m³	m/s	m²/s	m/s	
1	20.90	20.80	11.2763	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
2	20.80	20.70	11.3391	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
3	20.70	20.60	11.4018	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
4	20.60	20.50	11.4646	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
5	20.50	20.40	11.5274	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
6	20.40	20.30	11.5901	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
7	20.30	20.20	11.6529	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
8	20.20	20.10	11.7157	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
9	20.10	20.00	11.7785	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
10	20.00	19.90	11.8412	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
11	19.90	19.80	11.9040	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
12	19.80	19.70	11.9668	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
13	19.70	19.60	12.0295	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
14	19.60	19.50	12.0923	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
15	19.50	19.40	12.1551	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
16	19.40	19.30	12.2178	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
17	19.30	19.20	12.2806	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
18	19.20	19.10	12.3434	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
19	19.10	19.00	12.4061	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
20	19.00	18.90	12.4689	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
21	18.90	18.80	12.5317	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
22	18.80	18.70	12.5944	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
23	18.70	18.60	12.6573	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
24	18.60	18.50	12.7201	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
25	18.50	18.40	12.7829	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
26	18.40	18.30	12.8456	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
27	18.30	18.20	12.9084	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
28	18.20	18.10	12.9712	0.005	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.005
29	18.10	18.00	13.0339	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
30	18.00	17.90	13.0967	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
31	17.90	17.80	13.1595	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
32	17.80	17.70	13.2222	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
33	17.70	17.60	13.2850	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
34	17.60	17.50	13.3478	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
35	17.50	17.40	13.4106	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
36	17.40	17.30	13.4733	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
37	17.30	17.20	13.5361	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
38	17.20	17.10	13.5989	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
39	17.10	17.00	13.6616	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
40	17.00	16.90	13.7244	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
41	16.90	16.80	13.7872	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
42	16.80	16.70	13.8499	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
43	16.70	16.60	13.9127	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
44	16.60	16.50	13.9755	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006
45	16.50	16.40	14.0382	0.006	1.55	1527.0	236685.	152700.0	2366.8		0.	0.000	0.500	0.006

46	16.40	16.30	14.1010	0.006	1.55	1527.0	236685.	152700.0	2366.8	0.	0.000	0.500	0.006
47	16.30	16.20	13.7683	0.009	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.009
48	16.20	16.10	13.4357	0.008	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.008
49	16.10	16.00	13.1030	0.008	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.008
50	16.00	15.90	12.7704	0.008	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.008
51	15.90	15.80	12.4377	0.008	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.008
52	15.80	15.70	12.1050	0.008	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.008
53	15.70	15.60	11.7724	0.007	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.007
54	15.60	15.50	11.4397	0.007	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.007
55	15.50	15.40	11.1070	0.007	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.007
56	15.40	15.30	10.7744	0.007	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.007
57	15.30	15.20	10.4417	0.007	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.007
58	15.20	15.10	10.1090	0.006	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.006
59	15.10	15.00	9.7764	0.006	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.006
60	15.00	14.90	9.4437	0.006	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.006
61	14.90	14.80	9.1110	0.006	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.006
62	14.80	14.70	8.7784	0.006	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.006
63	14.70	14.60	8.4457	0.005	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.005
64	14.60	14.50	8.1130	0.005	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.005
65	14.50	14.40	7.7804	0.005	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.005
66	14.40	14.30	7.4477	0.005	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.005
67	14.30	14.20	7.1151	0.004	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.004
68	14.20	14.10	6.7824	0.004	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.004
69	14.10	14.00	6.4497	0.004	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.004
70	14.00	13.90	6.1171	0.004	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.004
71	13.90	13.80	5.7844	0.004	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.004
72	13.80	13.70	5.4517	0.003	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.003
73	13.70	13.60	5.1191	0.003	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.003
74	13.60	13.50	4.7864	0.003	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.003
75	13.50	13.40	4.4537	0.003	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.003
76	13.40	13.30	4.1211	0.003	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.003
77	13.30	13.20	3.7884	0.002	1.55	1029.0	159495.	102900.0	1594.9	0.	0.000	0.500	0.002
78	13.20	13.10	3.7906	0.098	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.098
79	13.10	13.00	3.7928	0.098	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.098
80	13.00	12.90	3.7949	0.098	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.098
81	12.90	12.80	3.7971	0.098	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.098
82	12.80	12.70	3.7993	0.098	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.098
83	12.70	12.60	3.8015	0.098	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.098
84	12.60	12.50	3.8037	0.098	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.098
85	12.50	12.40	3.8058	0.098	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.098
86	12.40	12.30	3.8080	0.098	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.098
87	12.30	12.20	3.8102	0.098	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.098
88	12.20	12.10	3.8124	0.098	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.098
89	12.10	12.00	3.8146	0.098	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.098
90	12.00	11.90	3.8167	0.098	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.098
91	11.90	11.80	3.8189	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
92	11.80	11.70	3.8211	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
93	11.70	11.60	3.8233	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
94	11.60	11.50	3.8255	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
95	11.50	11.40	3.8276	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099

96	11.40	11.30	3.8298	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
97	11.30	11.20	3.8320	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
98	11.20	11.10	3.8342	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
99	11.10	11.00	3.8364	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
100	11.00	10.90	3.8385	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
101	10.90	10.80	3.8407	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
102	10.80	10.70	3.8429	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
103	10.70	10.60	3.8451	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
104	10.60	10.50	3.8473	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
105	10.50	10.40	3.8494	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
106	10.40	10.30	3.8516	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
107	10.30	10.20	3.8538	0.099	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.099
108	10.20	10.10	3.8560	0.100	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.100
109	10.10	10.00	3.8582	0.100	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.100
110	10.00	9.90	3.8603	0.100	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.100
111	9.90	9.80	3.8625	0.100	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.100
112	9.80	9.70	3.8647	0.100	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.100
113	9.70	9.60	3.8669	0.100	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.100
114	9.60	9.50	3.8690	0.100	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.100
115	9.50	9.40	3.8712	0.100	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.100
116	9.40	9.30	3.8734	0.100	1.55	25.0	3875.	2500.0	38.8	0.	0.000	0.400	0.100
117	9.30	9.20	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
118	9.20	9.10	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
119	9.10	9.00	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
120	9.00	8.90	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
121	8.90	8.80	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
122	8.80	8.70	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
123	8.70	8.60	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
124	8.60	8.50	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
125	8.50	8.40	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
126	8.40	8.30	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
127	8.30	8.20	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
128	8.20	8.10	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
129	8.10	8.00	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
130	8.00	7.90	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
131	7.90	7.80	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
132	7.80	7.70	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
133	7.70	7.60	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
134	7.60	7.50	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
135	7.50	7.40	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
136	7.40	7.30	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
137	7.30	7.20	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
138	7.20	7.10	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
139	7.10	7.00	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
140	7.00	6.90	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
141	6.90	6.80	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
142	6.80	6.70	3.8734	0.250	1.55	10.0	1550.	1000.0	15.5	0.	0.000	0.300	0.250
172	6.70	6.60	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
173	6.60	6.50	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
174	6.50	6.40	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061

175	6.40	6.30	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
176	6.30	6.20	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
177	6.20	6.10	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
178	6.10	6.00	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
179	6.00	5.90	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
180	5.90	5.80	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
181	5.80	5.70	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
182	5.70	5.60	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
183	5.60	5.50	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
184	5.50	5.40	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
185	5.40	5.30	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
186	5.30	5.20	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
187	5.20	5.10	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
188	5.10	5.00	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
189	5.00	4.90	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
190	4.90	4.80	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
191	4.80	4.70	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
192	4.70	4.60	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
193	4.60	4.50	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
194	4.50	4.40	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
195	4.40	4.30	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
196	4.30	4.20	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
197	4.20	4.10	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
198	4.10	4.00	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
199	4.00	3.90	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
200	3.90	3.80	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
201	3.80	3.70	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
202	3.70	3.60	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
203	3.60	3.50	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
204	3.50	3.40	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
205	3.40	3.30	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
206	3.30	3.20	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
207	3.20	3.10	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
208	3.10	3.00	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
209	3.00	2.90	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
210	2.90	2.80	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
211	2.80	2.70	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
212	2.70	2.60	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
213	2.60	2.50	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
214	2.50	2.40	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
215	2.40	2.30	4.3831	0.061	1.55	46.0	7130.	4600.0	71.3	0.	0.000	0.100	0.061
216	2.30	2.20	4.3831	0.026	1.55	110.0	17050.	11000.0	170.5	0.	0.000	0.100	0.026
217	2.20	2.10	4.3831	0.026	1.55	110.0	17050.	11000.0	170.5	0.	0.000	0.100	0.026
218	2.10	2.00	4.3831	0.026	1.55	110.0	17050.	11000.0	170.5	0.	0.000	0.100	0.026
219	2.00	1.90	4.3831	0.026	1.55	110.0	17050.	11000.0	170.5	0.	0.000	0.100	0.026
220	1.90	1.80	4.3831	0.026	1.55	110.0	17050.	11000.0	170.5	0.	0.000	0.100	0.026
221	1.80	1.70	4.3831	0.026	1.55	110.0	17050.	11000.0	170.5	0.	0.000	0.100	0.026
222	1.70	1.60	4.3831	0.026	1.55	110.0	17050.	11000.0	170.5	0.	0.000	0.100	0.026
223	1.60	1.50	4.3831	0.026	1.55	110.0	17050.	11000.0	170.5	0.	0.000	0.100	0.026
224	1.50	1.40	4.3831	0.094	1.55	30.0	4650.	3000.0	46.5	0.	0.000	0.100	0.094

225	1.40	1.30	4.3831	0.094	1.55	30.0	4650.	3000.0	46.5	0.	0.000	0.100	0.094
226	1.30	1.20	4.3831	0.094	1.55	30.0	4650.	3000.0	46.5	0.	0.000	0.100	0.094
227	1.20	1.10	4.3831	0.094	1.55	30.0	4650.	3000.0	46.5	0.	0.000	0.100	0.094
228	1.10	1.00	4.3831	0.094	1.55	30.0	4650.	3000.0	46.5	0.	0.000	0.100	0.094
229	1.00	0.90	4.3831	0.094	1.55	30.0	4650.	3000.0	46.5	0.	0.000	0.100	0.094
230	0.90	0.80	4.3831	0.094	1.55	30.0	4650.	3000.0	46.5	0.	0.000	0.100	0.094
231	0.80	0.70	4.3831	0.094	1.55	30.0	4650.	3000.0	46.5	0.	0.000	0.100	0.094
232	0.70	0.60	4.3831	0.094	1.55	30.0	4650.	3000.0	46.5	0.	0.000	0.100	0.094
244	0.60	0.50	4.4964	0.145	1.55	20.0	3100.	2000.0	31.0	0.	0.000	0.100	0.145
245	0.50	0.40	4.4964	0.145	1.55	20.0	3100.	2000.0	31.0	0.	0.000	0.100	0.145
246	0.40	0.30	4.4964	0.145	1.55	20.0	3100.	2000.0	31.0	0.	0.000	0.100	0.145
247	0.30	0.20	4.4964	0.145	1.55	20.0	3100.	2000.0	31.0	0.	0.000	0.100	0.145
248	0.20	0.10	4.4964	0.145	1.55	20.0	3100.	2000.0	31.0	0.	0.000	0.100	0.145
249	0.10	0.00	4.4964	0.145	1.55	20.0	3100.	2000.0	31.0	0.	0.000	0.100	0.145

SPECIAL REPORT: Lake Theriot

HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	VELO	ADVCTV	DEPTH	WIDTH	VOLUME	AREA	SURFACE AREA	X-SECT PRISM	TIDAL VELO	TIDAL VELO	DISPRSN	MEAN
	km	km	m³/s	m/s	m	m	m³	m²	m²	m³	m/s	m²/s	m/s		
143	2.90	2.80	0.0297	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
144	2.80	2.70	0.0497	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
145	2.70	2.60	0.0697	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
146	2.60	2.50	0.0897	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
147	2.50	2.40	0.1097	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
148	2.40	2.30	0.1297	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
149	2.30	2.20	0.1497	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
150	2.20	2.10	0.1697	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
151	2.10	2.00	0.1897	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
152	2.00	1.90	0.2097	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
153	1.90	1.80	0.2297	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
154	1.80	1.70	0.2497	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
155	1.70	1.60	0.2697	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
156	1.60	1.50	0.2897	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
157	1.50	1.40	0.3097	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
158	1.40	1.30	0.3297	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
159	1.30	1.20	0.3497	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
160	1.20	1.10	0.3697	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
161	1.10	1.00	0.3897	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
162	1.00	0.90	0.4097	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
163	0.90	0.80	0.4297	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
164	0.80	0.70	0.4497	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
165	0.70	0.60	0.4697	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
166	0.60	0.50	0.4897	0.000	0.80	2428.0	194240.	242800.0	1942.4	0.	0.000	0.000	0.000		
167	0.50	0.40	0.4937	0.013	1.90	20.0	3808.	2000.0	38.1	0.	0.000	0.200	0.013		
168	0.40	0.30	0.4977	0.013	1.90	20.0	3808.	2000.0	38.1	0.	0.000	0.200	0.013		
169	0.30	0.20	0.5017	0.013	1.90	20.0	3808.	2000.0	38.1	0.	0.000	0.200	0.013		
170	0.20	0.10	0.5057	0.013	1.90	20.0	3808.	2000.0	38.1	0.	0.000	0.200	0.013		
171	0.10	0.00	0.5097	0.013	1.90	20.0	3808.	2000.0	38.1	0.	0.000	0.200	0.013		

SPECIAL REPORT: Lake Hache

HYDRAULIC PARAMETER VALUES

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	ADVCTV VELO m/s	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
233	1.10	1.00	0.0108	0.000	0.75	970.0	72750.	97000.0	727.5	0.	0.000	0.000	0.000
234	1.00	0.90	0.0206	0.000	0.75	970.0	72750.	97000.0	727.5	0.	0.000	0.000	0.000
235	0.90	0.80	0.0304	0.000	0.75	970.0	72750.	97000.0	727.5	0.	0.000	0.000	0.000
236	0.80	0.70	0.0402	0.000	0.75	970.0	72750.	97000.0	727.5	0.	0.000	0.000	0.000
237	0.70	0.60	0.0501	0.000	0.75	970.0	72750.	97000.0	727.5	0.	0.000	0.000	0.000
238	0.60	0.50	0.0599	0.000	0.75	970.0	72750.	97000.0	727.5	0.	0.000	0.000	0.000
239	0.50	0.40	0.0697	0.000	0.75	970.0	72750.	97000.0	727.5	0.	0.000	0.000	0.000
240	0.40	0.30	0.0795	0.000	0.75	970.0	72750.	97000.0	727.5	0.	0.000	0.000	0.000
241	0.30	0.20	0.0893	0.000	0.75	970.0	72750.	97000.0	727.5	0.	0.000	0.000	0.000
242	0.20	0.10	0.0991	0.000	0.75	970.0	72750.	97000.0	727.5	0.	0.000	0.000	0.000
243	0.10	0.00	0.1133	0.001	1.55	50.0	7750.	5000.0	77.5	0.	0.000	0.100	0.001

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 1 Lake Hache incl 937 Calibration Simulation for Lake de Cade Theriot and Hache model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
1	HDWTR	11.21353	31.10	0.00	0.00	0.00	6.50	2.72	0.00	2.72	0.00	0.80	0.10	0.04	0.00	20.00	0.00	0.00
EACH	INCR	0.06494	31.13	0.00	0.00	0.00	5.00	28.00	0.00			2.00	1.00	0.04	0.00	0.00	0.00	
EACH	INCR	-0.00217																
23	WSTLD	0.00011	31.10	0.00	0.00	0.00	5.00	45.00	0.00	45.00	0.00	0.80	0.10	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TIME days	TRAVEL m	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
1	20.90	20.80	11.27630	0.0	0.00476	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
2	20.80	20.70	11.33907	0.0	0.00479	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
3	20.70	20.60	11.40184	0.0	0.00482	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
4	20.60	20.50	11.46461	0.0	0.00484	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
5	20.50	20.40	11.52737	0.0	0.00487	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
6	20.40	20.30	11.59014	0.0	0.00490	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
7	20.30	20.20	11.65291	0.0	0.00492	0.24	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
8	20.20	20.10	11.71568	0.0	0.00495	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
9	20.10	20.00	11.77845	0.0	0.00498	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
10	20.00	19.90	11.84122	0.0	0.00500	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
11	19.90	19.80	11.90399	0.0	0.00503	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
12	19.80	19.70	11.96676	0.0	0.00506	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
13	19.70	19.60	12.02953	0.0	0.00508	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
14	19.60	19.50	12.09229	0.0	0.00511	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
15	19.50	19.40	12.15506	0.0	0.00514	0.23	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
16	19.40	19.30	12.21783	0.0	0.00516	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
17	19.30	19.20	12.28060	0.0	0.00519	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
18	19.20	19.10	12.34337	0.0	0.00522	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
19	19.10	19.00	12.40614	0.0	0.00524	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
20	19.00	18.90	12.46891	0.0	0.00527	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
21	18.90	18.80	12.53168	0.0	0.00529	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
22	18.80	18.70	12.59445	0.0	0.00532	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	
23	18.70	18.60	12.65732	0.0	0.00535	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005	

24	18.60	18.50	12.72009	0.0	0.00537	0.22	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
25	18.50	18.40	12.78286	0.0	0.00540	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
26	18.40	18.30	12.84563	0.0	0.00543	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
27	18.30	18.20	12.90840	0.0	0.00545	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
28	18.20	18.10	12.97117	0.0	0.00548	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.005
29	18.10	18.00	13.03394	0.0	0.00551	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
30	18.00	17.90	13.09671	0.0	0.00553	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
31	17.90	17.80	13.15948	0.0	0.00556	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
32	17.80	17.70	13.22225	0.0	0.00559	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
33	17.70	17.60	13.28501	0.0	0.00561	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
34	17.60	17.50	13.34778	0.0	0.00564	0.21	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
35	17.50	17.40	13.41055	0.0	0.00567	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
36	17.40	17.30	13.47332	0.0	0.00569	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
37	17.30	17.20	13.53609	0.0	0.00572	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
38	17.20	17.10	13.59886	0.0	0.00575	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
39	17.10	17.00	13.66163	0.0	0.00577	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
40	17.00	16.90	13.72440	0.0	0.00580	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
41	16.90	16.80	13.78717	0.0	0.00583	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
42	16.80	16.70	13.84993	0.0	0.00585	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
43	16.70	16.60	13.91270	0.0	0.00588	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
44	16.60	16.50	13.97547	0.0	0.00590	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
45	16.50	16.40	14.03824	0.0	0.00593	0.20	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
46	16.40	16.30	14.10101	0.0	0.00596	0.19	1.55	1527.00	236684.98	152700.00	2366.85	0.00	0.000	0.500	0.006
TOT					9.97			10887509.00	7024200.00						
AVG				0.0053			1.55	1527.00			2366.85				
CUM					9.97										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT 1/da	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD *	FULL SOD 1/da	CORR DECAY 1/da	ORGN SETT 1/da	ORGN DECAY *	NH3 SRCE **	NH3 RATE **	DENIT PROD 1/da	PO4 PROD 1/da	ALG DECAY 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT	NCM
1	20.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
2	20.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
3	20.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
4	20.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
5	20.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
6	20.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
7	20.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
8	20.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
9	20.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
10	19.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
11	19.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
12	19.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
13	19.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
14	19.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
15	19.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
16	19.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
17	19.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
18	19.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
19	19.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
20	18.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00

21	18.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
22	18.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
23	18.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
24	18.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
25	18.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
26	18.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
27	18.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
28	18.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
29	18.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
30	17.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
31	17.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
32	17.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
33	17.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
34	17.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
35	17.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
36	17.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
37	17.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
38	17.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
39	17.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
40	16.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
41	16.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
42	16.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
43	16.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
44	16.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
45	16.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
46	16.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.60	0.13	0.00	0.00	0.00	0.00	0.00	1.20			0.00	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT		CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN µg/L	PHOS g/m³	CHL A	MACRO #/100mL	COLI	NCM
1	20.800	31.10	0.00	0.00	0.00	6.49	2.72	0.00	2.72	0.00	0.81	0.09	0.02	0.93	0.00	20.00	0.00	0.	0.00	
2	20.700	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.82	0.09	0.01	0.92	0.00	20.00	0.00	0.	0.00	
3	20.600	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.82	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
4	20.500	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
5	20.400	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.84	0.08	0.00	0.92	0.00	20.00	0.00	0.	0.00	
6	20.300	31.10	0.00	0.00	0.00	6.49	2.73	0.00	2.73	0.00	0.84	0.08	0.00	0.92	0.00	20.00	0.00	0.	0.00	
7	20.200	31.10	0.00	0.00	0.00	6.49	2.74	0.00	2.74	0.00	0.85	0.07	0.00	0.92	0.00	20.00	0.00	0.	0.00	
8	20.100	31.10	0.00	0.00	0.00	6.50	2.74	0.00	2.74	0.00	0.85	0.07	0.00	0.93	0.00	20.00	0.00	0.	0.00	
9	20.000	31.10	0.00	0.00	0.00	6.50	2.74	0.00	2.74	0.00	0.86	0.07	0.00	0.93	0.00	20.00	0.00	0.	0.00	
10	19.900	31.10	0.00	0.00	0.00	6.50	2.74	0.00	2.74	0.00	0.86	0.07	0.00	0.93	0.00	20.00	0.00	0.	0.00	
11	19.800	31.10	0.00	0.00	0.00	6.50	2.74	0.00	2.74	0.00	0.87	0.07	0.00	0.94	0.00	20.00	0.00	0.	0.00	
12	19.700	31.10	0.00	0.00	0.00	6.51	2.74	0.00	2.74	0.00	0.87	0.07	0.00	0.94	0.00	20.00	0.00	0.	0.00	
13	19.600	31.10	0.00	0.00	0.00	6.51	2.74	0.00	2.74	0.00	0.88	0.07	0.00	0.95	0.00	20.00	0.00	0.	0.00	
14	19.500	31.10	0.00	0.00	0.00	6.51	2.74	0.00	2.74	0.00	0.89	0.07	0.00	0.95	0.00	20.00	0.00	0.	0.00	
15	19.400	31.10	0.00	0.00	0.00	6.51	2.74	0.00	2.74	0.00	0.89	0.06	0.00	0.95	0.00	20.00	0.00	0.	0.00	
16	19.300	31.10	0.00	0.00	0.00	6.52	2.75	0.00	2.75	0.00	0.90	0.06	0.00	0.96	0.00	20.00	0.00	0.	0.00	
17	19.200	31.10	0.00	0.00	0.00	6.52	2.75	0.00	2.75	0.00	0.90	0.06	0.00	0.96	0.00	20.00	0.00	0.	0.00	
18	19.100	31.10	0.00	0.00	0.00	6.52	2.75	0.00	2.75	0.00	0.91	0.06	0.00	0.97	0.00	20.00	0.00	0.	0.00	
19	19.000	31.10	0.00	0.00	0.00	6.52	2.75	0.00	2.75	0.00	0.91	0.06	0.00	0.97	0.00	20.00	0.00	0.	0.00	

20	18.900	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.00	0.00	0.	0.00
21	18.800	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.00	0.00	0.	0.00
22	18.700	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.92	0.06	0.00	0.98	0.00	20.00	0.00	0.	0.00
23	18.600	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.93	0.06	0.00	0.99	0.00	20.00	0.00	0.	0.00
24	18.500	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.93	0.06	0.00	0.99	0.00	20.00	0.00	0.	0.00
25	18.400	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.94	0.06	0.00	1.00	0.00	20.00	0.00	0.	0.00
26	18.300	31.10	0.00	0.00	0.00	6.53	2.75	0.00	2.75	0.00	0.94	0.06	0.00	1.00	0.00	20.00	0.00	0.	0.00
27	18.200	31.10	0.00	0.00	0.00	6.54	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.01	0.00	20.00	0.00	0.	0.00
28	18.100	31.10	0.00	0.00	0.00	6.54	2.75	0.00	2.75	0.00	0.95	0.06	0.00	1.01	0.00	20.00	0.00	0.	0.00
29	18.000	31.10	0.00	0.00	0.00	6.54	2.75	0.00	2.75	0.00	0.96	0.06	0.00	1.01	0.00	20.00	0.00	0.	0.00
30	17.900	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.96	0.06	0.00	1.02	0.00	20.00	0.00	0.	0.00
31	17.800	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.02	0.00	20.00	0.00	0.	0.00
32	17.700	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.03	0.00	20.00	0.00	0.	0.00
33	17.600	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.97	0.06	0.00	1.03	0.00	20.00	0.00	0.	0.00
34	17.500	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.04	0.00	20.00	0.00	0.	0.00
35	17.400	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.98	0.06	0.00	1.04	0.00	20.00	0.00	0.	0.00
36	17.300	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.04	0.00	20.00	0.00	0.	0.00
37	17.200	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.05	0.00	20.00	0.00	0.	0.00
38	17.100	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	0.99	0.06	0.00	1.05	0.00	20.00	0.00	0.	0.00
39	17.000	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.06	0.00	20.00	0.00	0.	0.00
40	16.900	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	1.00	0.06	0.00	1.06	0.00	20.00	0.00	0.	0.00
41	16.800	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	1.01	0.06	0.00	1.06	0.00	20.00	0.00	0.	0.00
42	16.700	31.10	0.00	0.00	0.00	6.54	2.76	0.00	2.76	0.00	1.01	0.06	0.00	1.07	0.00	20.00	0.00	0.	0.00
43	16.600	31.10	0.00	0.00	0.00	6.54	2.77	0.00	2.77	0.00	1.01	0.06	0.00	1.07	0.00	20.00	0.00	0.	0.00
44	16.500	31.10	0.00	0.00	0.00	6.54	2.78	0.00	2.78	0.00	1.02	0.06	0.00	1.07	0.00	20.00	0.00	0.	0.00
45	16.400	31.10	0.00	0.00	0.00	6.53	2.81	0.00	2.81	0.00	1.02	0.06	0.00	1.08	0.00	20.00	0.00	0.	0.00
46	16.300	31.10	0.00	0.00	0.00	6.51	2.88	0.00	2.88	0.00	1.03	0.06	0.00	1.08	0.00	20.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 2 Lake Hache incl 120406-B Calibration Simulation for Lake de Cade Theriot and Hache model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS	CHL A #/100mL	COLI	NCM
47	UPR RCH	14.10101	31.10	0.00	0.00	0.00	6.51	2.88	0.00	2.88	0.00	1.03	0.06	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.09637	31.13	0.00	0.00	0.00	5.00	45.00	0.00		2.00	1.00	0.04	0.00	0.00	0.00		
EACH	INCR	-0.42903																

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
47	16.30	16.20	13.76835	0.0	0.00863	0.13	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.009
48	16.20	16.10	13.43568	0.0	0.00842	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008
49	16.10	16.00	13.10302	0.0	0.00822	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008
50	16.00	15.90	12.77035	0.0	0.00801	0.14	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008
51	15.90	15.80	12.43769	0.0	0.00780	0.15	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008
52	15.80	15.70	12.10502	0.0	0.00759	0.15	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.008
53	15.70	15.60	11.77236	0.0	0.00738	0.16	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007
54	15.60	15.50	11.43969	0.0	0.00717	0.16	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007
55	15.50	15.40	11.10703	0.0	0.00696	0.17	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007
56	15.40	15.30	10.77437	0.0	0.00676	0.17	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007
57	15.30	15.20	10.44170	0.0	0.00655	0.18	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.007

58	15.20	15.10	10.10904	0.0	0.00634	0.18	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.006
59	15.10	15.00	9.77637	0.0	0.00613	0.19	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.006
60	15.00	14.90	9.44371	0.0	0.00592	0.20	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.006
61	14.90	14.80	9.11104	0.0	0.00571	0.20	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.006
62	14.80	14.70	8.77838	0.0	0.00550	0.21	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.006
63	14.70	14.60	8.44571	0.0	0.00530	0.22	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.005
64	14.60	14.50	8.11305	0.0	0.00509	0.23	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.005
65	14.50	14.40	7.78039	0.0	0.00488	0.24	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.005
66	14.40	14.30	7.44772	0.0	0.00467	0.25	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.005
67	14.30	14.20	7.11506	0.0	0.00446	0.26	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.004
68	14.20	14.10	6.78239	0.0	0.00425	0.27	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.004
69	14.10	14.00	6.44973	0.0	0.00404	0.29	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.004
70	14.00	13.90	6.11706	0.0	0.00384	0.30	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.004
71	13.90	13.80	5.78440	0.0	0.00363	0.32	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.004
72	13.80	13.70	5.45173	0.0	0.00342	0.34	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.003
73	13.70	13.60	5.11907	0.0	0.00321	0.36	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.003
74	13.60	13.50	4.78640	0.0	0.00300	0.39	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.003
75	13.50	13.40	4.45374	0.0	0.00279	0.41	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.003
76	13.40	13.30	4.12108	0.0	0.00258	0.45	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.003
77	13.30	13.20	3.78841	0.0	0.00238	0.49	1.55	1029.00	159495.00	102900.00	1594.95	0.00	0.000	0.500	0.002
TOT					7.47			4944345.00	3189900.00						
AVG				0.0048			1.55	1029.00			1594.95				
CUM					17.45										

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da		
47	16.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
48	16.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
49	16.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.47	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
50	15.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
51	15.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
52	15.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
53	15.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
54	15.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
55	15.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
56	15.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
57	15.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
58	15.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
59	15.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
60	14.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
61	14.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.46	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
62	14.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
63	14.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
64	14.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
65	14.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
66	14.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
67	14.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
68	14.100	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	
69	14.000	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00	

70	13.900	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
71	13.800	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.45	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
72	13.700	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
73	13.600	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
74	13.500	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
75	13.400	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
76	13.300	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
77	13.200	7.42	0.74	0.22	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.60	0.13	0.00	0.00	0.00	0.00	0.00	1.40			0.00	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT		CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS #/100mL	CHL A	MACRO	COLI	NCM
47	16.200	31.10	0.00	0.00	0.00	6.47	3.06	0.00	3.06	0.00	1.03	0.06	0.00	1.09	0.00	20.00	0.00	0.	0.00	
48	16.100	31.10	0.00	0.00	0.00	6.43	3.26	0.00	3.26	0.00	1.04	0.06	0.00	1.10	0.00	20.00	0.00	0.	0.00	
49	16.000	31.10	0.00	0.00	0.00	6.38	3.45	0.00	3.45	0.00	1.04	0.07	0.00	1.11	0.00	20.00	0.00	0.	0.00	
50	15.900	31.10	0.00	0.00	0.00	6.33	3.64	0.00	3.64	0.00	1.05	0.07	0.00	1.12	0.00	20.00	0.00	0.	0.00	
51	15.800	31.10	0.00	0.00	0.00	6.28	3.83	0.00	3.83	0.00	1.06	0.07	0.00	1.13	0.00	20.00	0.00	0.	0.00	
52	15.700	31.10	0.00	0.00	0.00	6.22	4.02	0.00	4.02	0.00	1.06	0.07	0.00	1.14	0.00	20.00	0.00	0.	0.00	
53	15.600	31.10	0.00	0.00	0.00	6.17	4.20	0.00	4.20	0.00	1.07	0.08	0.00	1.15	0.00	20.00	0.00	0.	0.00	
54	15.500	31.10	0.00	0.00	0.00	6.11	4.39	0.00	4.39	0.00	1.08	0.08	0.00	1.16	0.00	20.00	0.00	0.	0.00	
55	15.400	31.10	0.00	0.00	0.00	6.05	4.57	0.00	4.57	0.00	1.09	0.08	0.00	1.17	0.00	20.00	0.00	0.	0.00	
56	15.300	31.10	0.00	0.00	0.00	5.99	4.74	0.00	4.74	0.00	1.09	0.08	0.00	1.18	0.00	20.00	0.00	0.	0.00	
57	15.200	31.10	0.00	0.00	0.00	5.93	4.92	0.00	4.92	0.00	1.10	0.09	0.00	1.19	0.00	20.00	0.00	0.	0.00	
58	15.100	31.10	0.00	0.00	0.00	5.87	5.09	0.00	5.09	0.00	1.11	0.09	0.00	1.20	0.00	20.00	0.00	0.	0.00	
59	15.000	31.10	0.00	0.00	0.00	5.81	5.26	0.00	5.26	0.00	1.12	0.09	0.00	1.21	0.00	20.00	0.00	0.	0.00	
60	14.900	31.10	0.00	0.00	0.00	5.75	5.42	0.00	5.42	0.00	1.12	0.09	0.00	1.22	0.00	20.00	0.00	0.	0.00	
61	14.800	31.10	0.00	0.00	0.00	5.69	5.59	0.00	5.59	0.00	1.13	0.09	0.00	1.23	0.00	20.00	0.00	0.	0.00	
62	14.700	31.10	0.00	0.00	0.00	5.63	5.75	0.00	5.75	0.00	1.14	0.10	0.00	1.24	0.00	20.00	0.00	0.	0.00	
63	14.600	31.10	0.00	0.00	0.00	5.57	5.90	0.00	5.90	0.00	1.15	0.10	0.00	1.25	0.00	20.00	0.00	0.	0.00	
64	14.500	31.10	0.00	0.00	0.00	5.51	6.06	0.00	6.06	0.00	1.16	0.10	0.00	1.26	0.00	20.00	0.00	0.	0.00	
65	14.400	31.10	0.00	0.00	0.00	5.45	6.21	0.00	6.21	0.00	1.17	0.10	0.00	1.27	0.00	20.00	0.00	0.	0.00	
66	14.300	31.10	0.00	0.00	0.00	5.39	6.36	0.00	6.36	0.00	1.18	0.10	0.00	1.28	0.00	20.00	0.00	0.	0.00	
67	14.200	31.10	0.00	0.00	0.00	5.33	6.51	0.00	6.51	0.00	1.19	0.10	0.00	1.29	0.00	20.00	0.00	0.	0.00	
68	14.100	31.10	0.00	0.00	0.00	5.27	6.65	0.00	6.65	0.00	1.20	0.10	0.00	1.30	0.00	20.00	0.00	0.	0.00	
69	14.000	31.10	0.00	0.00	0.00	5.22	6.79	0.00	6.79	0.00	1.21	0.10	0.00	1.31	0.00	20.00	0.00	0.	0.00	
70	13.900	31.10	0.00	0.00	0.00	5.16	6.92	0.00	6.92	0.00	1.22	0.11	0.00	1.32	0.00	20.00	0.00	0.	0.00	
71	13.800	31.10	0.00	0.00	0.00	5.10	7.05	0.00	7.05	0.00	1.23	0.11	0.00	1.34	0.00	20.00	0.00	0.	0.00	
72	13.700	31.10	0.00	0.00	0.00	5.05	7.18	0.00	7.18	0.00	1.24	0.11	0.00	1.35	0.00	20.00	0.00	0.	0.00	
73	13.600	31.10	0.00	0.00	0.00	5.00	7.29	0.00	7.29	0.00	1.25	0.11	0.00	1.36	0.00	20.00	0.00	0.	0.00	
74	13.500	31.10	0.00	0.00	0.00	4.95	7.40	0.00	7.40	0.00	1.26	0.11	0.00	1.37	0.00	20.00	0.00	0.	0.00	
75	13.400	31.10	0.00	0.00	0.00	4.91	7.50	0.00	7.50	0.00	1.27	0.11	0.00	1.38	0.00	20.00	0.00	0.	0.00	
76	13.300	31.10	0.00	0.00	0.00	4.88	7.57	0.00	7.57	0.00	1.28	0.11	0.00	1.39	0.00	20.00	0.00	0.	0.00	
77	13.200	31.10	0.00	0.00	0.00	4.85	7.62	0.00	7.62	0.00	1.29	0.11	0.00	1.40	0.00	20.00	0.00	0.	0.00	

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

REACH NO. 3 L. Hache-405/406 boundary Calibration Simulation for Lake de Cade Theriot and Hache model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
78	UPR RCH	3.78841	31.10	0.00	0.00	0.00	4.85	7.62	0.00	7.62	0.00	1.29	0.11	0.00	0.00	20.00	0.00	0.00

EACH INCR 0.00218 31.13 0.00 0.00 0.00 5.00 60.00 0.00 6.00 1.00 0.04 0.00 0.00 0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN
78	13.20	13.10	3.79059	0.0	0.09782	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098	
79	13.10	13.00	3.79277	0.0	0.09788	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098	
80	13.00	12.90	3.79495	0.0	0.09793	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098	
81	12.90	12.80	3.79713	0.0	0.09799	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098	
82	12.80	12.70	3.79931	0.0	0.09805	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098	
83	12.70	12.60	3.80149	0.0	0.09810	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098	
84	12.60	12.50	3.80367	0.0	0.09816	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098	
85	12.50	12.40	3.80585	0.0	0.09822	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098	
86	12.40	12.30	3.80803	0.0	0.09827	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098	
87	12.30	12.20	3.81020	0.0	0.09833	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098	
88	12.20	12.10	3.81238	0.0	0.09838	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098	
89	12.10	12.00	3.81456	0.0	0.09844	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098	
90	12.00	11.90	3.81674	0.0	0.09850	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.098	
91	11.90	11.80	3.81892	0.0	0.09855	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
92	11.80	11.70	3.82110	0.0	0.09861	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
93	11.70	11.60	3.82328	0.0	0.09867	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
94	11.60	11.50	3.82546	0.0	0.09872	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
95	11.50	11.40	3.82764	0.0	0.09878	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
96	11.40	11.30	3.82982	0.0	0.09883	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
97	11.30	11.20	3.83200	0.0	0.09889	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
98	11.20	11.10	3.83418	0.0	0.09895	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
99	11.10	11.00	3.83636	0.0	0.09900	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
100	11.00	10.90	3.83854	0.0	0.09906	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
101	10.90	10.80	3.84072	0.0	0.09912	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
102	10.80	10.70	3.84290	0.0	0.09917	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
103	10.70	10.60	3.84508	0.0	0.09923	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
104	10.60	10.50	3.84725	0.0	0.09928	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
105	10.50	10.40	3.84943	0.0	0.09934	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
106	10.40	10.30	3.85161	0.0	0.09940	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
107	10.30	10.20	3.85379	0.0	0.09945	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.099	
108	10.20	10.10	3.85597	0.0	0.09951	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100	
109	10.10	10.00	3.85815	0.0	0.09957	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100	
110	10.00	9.90	3.86033	0.0	0.09962	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100	
111	9.90	9.80	3.86251	0.0	0.09968	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100	
112	9.80	9.70	3.86469	0.0	0.09973	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100	
113	9.70	9.60	3.86687	0.0	0.09979	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100	
114	9.60	9.50	3.86905	0.0	0.09985	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100	
115	9.50	9.40	3.87123	0.0	0.09990	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100	
116	9.40	9.30	3.87341	0.0	0.09996	0.01	1.55	25.00	3875.00	2500.00	38.75	0.00	0.000	0.400	0.100	
TOT					0.46			151125.00	97500.00							
AVG				0.0989		1.55	25.00				38.75					
CUM					17.91											

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

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

	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da				
78	13.100	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00			
79	13.000	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00			
80	12.900	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00			
81	12.800	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00			
82	12.700	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00			
83	12.600	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00			
84	12.500	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.44	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00			
85	12.400	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.00			
86	12.300	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00			
87	12.200	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00			
88	12.100	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00			
89	12.000	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00			
90	11.900	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.58	0.00	0.00	0.00	0.00			
91	11.800	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.65	0.00	0.00	0.00	0.00			
92	11.700	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00			
93	11.600	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00			
94	11.500	7.42	0.78	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00			
95	11.400	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00			
96	11.300	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00			
97	11.200	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00			
98	11.100	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00			
99	11.000	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.21	0.00	0.00	0.00	0.00			
100	10.900	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00			
101	10.800	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.36	0.00	0.00	0.00	0.00			
102	10.700	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.43	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00			
103	10.600	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00			
104	10.500	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.57	0.00	0.00	0.00	0.00			
105	10.400	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.64	0.00	0.00	0.00	0.00			
106	10.300	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.71	0.00	0.00	0.00	0.00			
107	10.200	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.78	0.00	0.00	0.00	0.00			
108	10.100	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.85	0.00	0.00	0.00	0.00			
109	10.000	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00			
110	9.900	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	3.99	0.00	0.00	0.00	0.00			
111	9.800	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.06	0.00	0.00	0.00	0.00			
112	9.700	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.13	0.00	0.00	0.00	0.00			
113	9.600	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00			
114	9.500	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.27	0.00	0.00	0.00	0.00			
115	9.400	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.34	0.00	0.00	0.00	0.00			
116	9.300	7.42	0.79	0.52	0.00	0.00	0.00	0.00	0.00	5.03	5.03	5.03	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
AVG 20 DEG C RATE			0.64	0.31	0.00	0.00	0.00	0.00	0.00	2.50			0.01	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00			

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
78	13.100	31.10	0.00	0.00	0.00	4.83	7.61	0.00	7.61	0.00	1.29	0.11	0.00	1.40	0.00	20.85	0.00	0.	0.00	
79	13.000	31.10	0.00	0.00	0.00	4.79	7.59	0.00	7.59	0.00	1.29	0.11	0.00	1.40	0.00	21.69	0.00	0.	0.00	
80	12.900	31.10	0.00	0.00	0.00	4.75	7.58	0.00	7.58	0.00	1.29	0.11	0.00	1.40	0.00	22.54	0.00	0.	0.00	
81	12.800	31.10	0.00	0.00	0.00	4.71	7.56	0.00	7.56	0.00	1.29	0.11	0.00	1.41	0.00	23.38	0.00	0.	0.00	
82	12.700	31.10	0.00	0.00	0.00	4.67	7.54	0.00	7.54	0.00	1.30	0.11	0.00	1.41	0.00	24.23	0.00	0.	0.00	

83	12.600	31.10	0.00	0.00	0.00	4.64	7.53	0.00	7.53	0.00	1.30	0.11	0.00	1.41	0.00	25.08	0.00	0.	0.00
84	12.500	31.10	0.00	0.00	0.00	4.60	7.51	0.00	7.51	0.00	1.30	0.11	0.00	1.41	0.00	25.92	0.00	0.	0.00
85	12.400	31.10	0.00	0.00	0.00	4.57	7.50	0.00	7.50	0.00	1.30	0.11	0.00	1.42	0.00	26.77	0.00	0.	0.00
86	12.300	31.10	0.00	0.00	0.00	4.54	7.48	0.00	7.48	0.00	1.31	0.11	0.00	1.42	0.00	27.62	0.00	0.	0.00
87	12.200	31.10	0.00	0.00	0.00	4.51	7.47	0.00	7.47	0.00	1.31	0.11	0.00	1.42	0.00	28.46	0.00	0.	0.00
88	12.100	31.10	0.00	0.00	0.00	4.48	7.45	0.00	7.45	0.00	1.31	0.11	0.00	1.42	0.00	29.31	0.00	0.	0.00
89	12.000	31.10	0.00	0.00	0.00	4.45	7.44	0.00	7.44	0.00	1.31	0.11	0.00	1.43	0.00	30.15	0.00	0.	0.00
90	11.900	31.10	0.00	0.00	0.00	4.42	7.42	0.00	7.42	0.00	1.32	0.11	0.00	1.43	0.00	31.00	0.00	0.	0.00
91	11.800	31.10	0.00	0.00	0.00	4.39	7.41	0.00	7.41	0.00	1.32	0.11	0.00	1.43	0.00	31.85	0.00	0.	0.00
92	11.700	31.10	0.00	0.00	0.00	4.37	7.39	0.00	7.39	0.00	1.32	0.11	0.00	1.43	0.00	32.69	0.00	0.	0.00
93	11.600	31.10	0.00	0.00	0.00	4.34	7.38	0.00	7.38	0.00	1.32	0.11	0.00	1.44	0.00	33.54	0.00	0.	0.00
94	11.500	31.10	0.00	0.00	0.00	4.32	7.36	0.00	7.36	0.00	1.33	0.11	0.00	1.44	0.00	34.38	0.00	0.	0.00
95	11.400	31.10	0.00	0.00	0.00	4.30	7.35	0.00	7.35	0.00	1.33	0.11	0.00	1.44	0.00	35.23	0.00	0.	0.00
96	11.300	31.10	0.00	0.00	0.00	4.28	7.33	0.00	7.33	0.00	1.33	0.11	0.00	1.45	0.00	36.08	0.00	0.	0.00
97	11.200	31.10	0.00	0.00	0.00	4.26	7.32	0.00	7.32	0.00	1.33	0.11	0.00	1.45	0.00	36.92	0.00	0.	0.00
98	11.100	31.10	0.00	0.00	0.00	4.24	7.30	0.00	7.30	0.00	1.34	0.11	0.00	1.45	0.00	37.77	0.00	0.	0.00
99	11.000	31.10	0.00	0.00	0.00	4.23	7.29	0.00	7.29	0.00	1.34	0.11	0.00	1.45	0.00	38.62	0.00	0.	0.00
100	10.900	31.10	0.00	0.00	0.00	4.21	7.28	0.00	7.28	0.00	1.34	0.11	0.00	1.46	0.00	39.46	0.00	0.	0.00
101	10.800	31.10	0.00	0.00	0.00	4.20	7.26	0.00	7.26	0.00	1.34	0.11	0.00	1.46	0.00	40.31	0.00	0.	0.00
102	10.700	31.10	0.00	0.00	0.00	4.18	7.25	0.00	7.25	0.00	1.35	0.11	0.00	1.46	0.00	41.15	0.00	0.	0.00
103	10.600	31.10	0.00	0.00	0.00	4.17	7.24	0.00	7.24	0.00	1.35	0.11	0.00	1.46	0.00	42.00	0.00	0.	0.00
104	10.500	31.10	0.00	0.00	0.00	4.16	7.22	0.00	7.22	0.00	1.35	0.11	0.00	1.47	0.00	42.85	0.00	0.	0.00
105	10.400	31.10	0.00	0.00	0.00	4.15	7.21	0.00	7.21	0.00	1.35	0.11	0.00	1.47	0.00	43.69	0.00	0.	0.00
106	10.300	31.10	0.00	0.00	0.00	4.14	7.20	0.00	7.20	0.00	1.36	0.11	0.00	1.47	0.00	44.54	0.00	0.	0.00
107	10.200	31.10	0.00	0.00	0.00	4.13	7.18	0.00	7.18	0.00	1.36	0.11	0.00	1.47	0.00	45.38	0.00	0.	0.00
108	10.100	31.10	0.00	0.00	0.00	4.12	7.17	0.00	7.17	0.00	1.36	0.12	0.00	1.48	0.00	46.23	0.00	0.	0.00
109	10.000	31.10	0.00	0.00	0.00	4.11	7.16	0.00	7.16	0.00	1.36	0.12	0.00	1.48	0.00	47.08	0.00	0.	0.00
110	9.900	31.10	0.00	0.00	0.00	4.11	7.14	0.00	7.14	0.00	1.37	0.12	0.00	1.48	0.00	47.92	0.00	0.	0.00
111	9.800	31.10	0.00	0.00	0.00	4.10	7.13	0.00	7.13	0.00	1.37	0.12	0.00	1.48	0.00	48.77	0.00	0.	0.00
112	9.700	31.10	0.00	0.00	0.00	4.10	7.12	0.00	7.12	0.00	1.37	0.12	0.00	1.49	0.00	49.62	0.00	0.	0.00
113	9.600	31.10	0.00	0.00	0.00	4.10	7.10	0.00	7.10	0.00	1.37	0.12	0.00	1.49	0.00	50.46	0.00	0.	0.00
114	9.500	31.10	0.00	0.00	0.00	4.09	7.09	0.00	7.09	0.00	1.38	0.12	0.00	1.49	0.00	51.31	0.00	0.	0.00
115	9.400	31.10	0.00	0.00	0.00	4.09	7.08	0.00	7.08	0.00	1.38	0.12	0.00	1.49	0.00	52.15	0.00	0.	0.00
116	9.300	31.10	0.00	0.00	0.00	4.09	7.07	0.00	7.07	0.00	1.38	0.12	0.00	1.50	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 4 405/406 boundary to L. Theriot Calibration Simulation for Lake de Cade Theriot and Hache model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A	COLI #/100mL	NCM
117	UPR RCH	3.87341	31.10	0.00	0.00	0.00	4.09	7.07	0.00	7.07	0.00	1.38	0.12	0.00	0.00	53.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
117	9.30	9.20	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
118	9.20	9.10	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
119	9.10	9.00	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
120	9.00	8.90	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
121	8.90	8.80	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
122	8.80	8.70	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250

123	8.70	8.60	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
124	8.60	8.50	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
125	8.50	8.40	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
126	8.40	8.30	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
127	8.30	8.20	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
128	8.20	8.10	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
129	8.10	8.00	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
130	8.00	7.90	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
131	7.90	7.80	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
132	7.80	7.70	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
133	7.70	7.60	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
134	7.60	7.50	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
135	7.50	7.40	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
136	7.40	7.30	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
137	7.30	7.20	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
138	7.20	7.10	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
139	7.10	7.00	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
140	7.00	6.90	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
141	6.90	6.80	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
142	6.80	6.70	3.87341	0.0	0.24990	0.00	1.55	10.00	1550.00	1000.00	15.50	0.00	0.000	0.300	0.250
TOT					0.12			40300.00	26000.00						
AVG				0.2499			1.55	10.00			15.50				
CUM					18.03										

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da			
117	9.200	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
118	9.100	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
119	9.000	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
120	8.900	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
121	8.800	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
122	8.700	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
123	8.600	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
124	8.500	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.42	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
125	8.400	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
126	8.300	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
127	8.200	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
128	8.100	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
129	8.000	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
130	7.900	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
131	7.800	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
132	7.700	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
133	7.600	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
134	7.500	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
135	7.400	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
136	7.300	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
137	7.200	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
138	7.100	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	
139	7.000	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00	

140	6.900	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
141	6.800	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
142	6.700	7.42	1.25	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.43	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.02	0.31	0.00	0.00	0.00	0.00	0.00	2.00			0.01	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM
117	9.200	31.10	0.00	0.00	0.00	4.10	7.05	0.00	7.05	0.00	1.38	0.12	0.00	1.50	0.00	53.00	0.00	0.	0.00
118	9.100	31.10	0.00	0.00	0.00	4.11	7.03	0.00	7.03	0.00	1.38	0.12	0.00	1.50	0.00	53.00	0.00	0.	0.00
119	9.000	31.10	0.00	0.00	0.00	4.12	7.02	0.00	7.02	0.00	1.38	0.12	0.00	1.50	0.00	53.00	0.00	0.	0.00
120	8.900	31.10	0.00	0.00	0.00	4.13	7.00	0.00	7.00	0.00	1.38	0.12	0.00	1.50	0.00	53.00	0.00	0.	0.00
121	8.800	31.10	0.00	0.00	0.00	4.14	6.98	0.00	6.98	0.00	1.38	0.12	0.00	1.50	0.00	53.00	0.00	0.	0.00
122	8.700	31.10	0.00	0.00	0.00	4.15	6.97	0.00	6.97	0.00	1.38	0.12	0.00	1.49	0.00	53.00	0.00	0.	0.00
123	8.600	31.10	0.00	0.00	0.00	4.16	6.95	0.00	6.95	0.00	1.38	0.12	0.00	1.49	0.00	53.00	0.00	0.	0.00
124	8.500	31.10	0.00	0.00	0.00	4.17	6.93	0.00	6.93	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
125	8.400	31.10	0.00	0.00	0.00	4.18	6.92	0.00	6.92	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
126	8.300	31.10	0.00	0.00	0.00	4.19	6.90	0.00	6.90	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
127	8.200	31.10	0.00	0.00	0.00	4.20	6.88	0.00	6.88	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
128	8.100	31.10	0.00	0.00	0.00	4.21	6.87	0.00	6.87	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
129	8.000	31.10	0.00	0.00	0.00	4.22	6.85	0.00	6.85	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
130	7.900	31.10	0.00	0.00	0.00	4.23	6.83	0.00	6.83	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
131	7.800	31.10	0.00	0.00	0.00	4.24	6.82	0.00	6.82	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
132	7.700	31.10	0.00	0.00	0.00	4.25	6.80	0.00	6.80	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
133	7.600	31.10	0.00	0.00	0.00	4.26	6.79	0.00	6.79	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
134	7.500	31.10	0.00	0.00	0.00	4.27	6.77	0.00	6.77	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
135	7.400	31.10	0.00	0.00	0.00	4.28	6.75	0.00	6.75	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
136	7.300	31.10	0.00	0.00	0.00	4.28	6.74	0.00	6.74	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
137	7.200	31.10	0.00	0.00	0.00	4.29	6.72	0.00	6.72	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
138	7.100	31.10	0.00	0.00	0.00	4.30	6.71	0.00	6.71	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
139	7.000	31.10	0.00	0.00	0.00	4.31	6.69	0.00	6.69	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
140	6.900	31.10	0.00	0.00	0.00	4.32	6.67	0.00	6.67	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
141	6.800	31.10	0.00	0.00	0.00	4.33	6.66	0.00	6.66	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00
142	6.700	31.10	0.00	0.00	0.00	4.35	6.64	0.00	6.64	0.00	1.38	0.11	0.00	1.49	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

REACH NO. 7 L. Theriot to Mandalay WR Bndy Calibration Simulation for Lake de Cade Theriot and Hache model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A	COLI #/100mL	NCM
172	UPR RCH	3.87341	31.10	0.00	0.00	0.00	4.35	6.64	0.00	6.64	0.00	1.38	0.11	0.00	0.00	53.00	0.00	0.00
172	TRIB	0.50971	31.10	0.00	0.00	0.00	6.48	5.30	0.00	5.30	0.00	1.00	0.08	0.00	0.00	53.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
172	6.70	6.60	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
173	6.60	6.50	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
174	6.50	6.40	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
175	6.40	6.30	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
176	6.30	6.20	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061

177	6.20	6.10	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
178	6.10	6.00	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
179	6.00	5.90	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
180	5.90	5.80	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
181	5.80	5.70	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
182	5.70	5.60	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
183	5.60	5.50	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
184	5.50	5.40	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
185	5.40	5.30	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
186	5.30	5.20	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
187	5.20	5.10	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
188	5.10	5.00	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
189	5.00	4.90	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
190	4.90	4.80	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
191	4.80	4.70	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
192	4.70	4.60	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
193	4.60	4.50	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
194	4.50	4.40	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
195	4.40	4.30	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
196	4.30	4.20	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
197	4.20	4.10	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
198	4.10	4.00	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
199	4.00	3.90	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
200	3.90	3.80	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
201	3.80	3.70	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
202	3.70	3.60	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
203	3.60	3.50	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
204	3.50	3.40	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
205	3.40	3.30	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
206	3.30	3.20	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
207	3.20	3.10	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
208	3.10	3.00	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
209	3.00	2.90	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
210	2.90	2.80	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
211	2.80	2.70	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
212	2.70	2.60	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
213	2.60	2.50	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
214	2.50	2.40	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
215	2.40	2.30	4.38312	0.0	0.06147	0.02	1.55	46.00	7130.00	4600.00	71.30	0.00	0.000	0.100	0.061
TOT					0.83			313719.97	202400.00						
AVG				0.0615			1.55	46.00			71.30				
CUM					18.85										

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	DECAY 1/da	BOD#1 SETT 1/da	BOD#1 DECAY 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY 1/da	ORGN SETT *	ORGN DECAY **	NH3 SRCE **	NH3 RATE 1/da	DENIT SRCE 1/da	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT
172	6.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
173	6.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
174	6.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
175	6.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00

176	6.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
177	6.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
178	6.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
179	5.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
180	5.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
181	5.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
182	5.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
183	5.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
184	5.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
185	5.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
186	5.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
187	5.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
188	5.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
189	4.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
190	4.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
191	4.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
192	4.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
193	4.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
194	4.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
195	4.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
196	4.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
197	4.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
198	4.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
199	3.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
200	3.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
201	3.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
202	3.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
203	3.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
204	3.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
205	3.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
206	3.200	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
207	3.100	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
208	3.000	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
209	2.900	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
210	2.800	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
211	2.700	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
212	2.600	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
213	2.500	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.44	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
214	2.400	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
215	2.300	7.42	0.62	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE				0.51	0.31	0.00	0.00	0.00	0.00	0.00	2.00		0.01	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
172	6.600	31.10	0.00	0.00	0.00	4.67	6.37	0.00	6.37	0.00	1.32	0.11	0.00	1.43	0.00	53.00	0.00	0.	0.00
173	6.500	31.10	0.00	0.00	0.00	4.68	6.31	0.00	6.31	0.00	1.32	0.11	0.00	1.43	0.00	53.00	0.00	0.	0.00
174	6.400	31.10	0.00	0.00	0.00	4.68	6.25	0.00	6.25	0.00	1.32	0.11	0.00	1.42	0.00	53.00	0.00	0.	0.00
175	6.300	31.10	0.00	0.00	0.00	4.68	6.19	0.00	6.19	0.00	1.32	0.11	0.00	1.42	0.00	53.00	0.00	0.	0.00
176	6.200	31.10	0.00	0.00	0.00	4.68	6.13	0.00	6.13	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00

177	6.100	31.10	0.00	0.00	0.00	4.69	6.07	0.00	6.07	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
178	6.000	31.10	0.00	0.00	0.00	4.69	6.01	0.00	6.01	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
179	5.900	31.10	0.00	0.00	0.00	4.69	5.96	0.00	5.96	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
180	5.800	31.10	0.00	0.00	0.00	4.70	5.90	0.00	5.90	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
181	5.700	31.10	0.00	0.00	0.00	4.70	5.84	0.00	5.84	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
182	5.600	31.10	0.00	0.00	0.00	4.71	5.79	0.00	5.79	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
183	5.500	31.10	0.00	0.00	0.00	4.72	5.73	0.00	5.73	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
184	5.400	31.10	0.00	0.00	0.00	4.72	5.67	0.00	5.67	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
185	5.300	31.10	0.00	0.00	0.00	4.73	5.62	0.00	5.62	0.00	1.32	0.10	0.00	1.42	0.00	53.00	0.00	0.	0.00
186	5.200	31.10	0.00	0.00	0.00	4.74	5.57	0.00	5.57	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
187	5.100	31.10	0.00	0.00	0.00	4.75	5.51	0.00	5.51	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
188	5.000	31.10	0.00	0.00	0.00	4.76	5.46	0.00	5.46	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
189	4.900	31.10	0.00	0.00	0.00	4.76	5.41	0.00	5.41	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
190	4.800	31.10	0.00	0.00	0.00	4.77	5.35	0.00	5.35	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
191	4.700	31.10	0.00	0.00	0.00	4.78	5.30	0.00	5.30	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
192	4.600	31.10	0.00	0.00	0.00	4.79	5.25	0.00	5.25	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
193	4.500	31.10	0.00	0.00	0.00	4.81	5.20	0.00	5.20	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
194	4.400	31.10	0.00	0.00	0.00	4.82	5.15	0.00	5.15	0.00	1.31	0.10	0.00	1.41	0.00	53.00	0.00	0.	0.00
195	4.300	31.10	0.00	0.00	0.00	4.83	5.10	0.00	5.10	0.00	1.31	0.09	0.00	1.41	0.00	53.00	0.00	0.	0.00
196	4.200	31.10	0.00	0.00	0.00	4.84	5.05	0.00	5.05	0.00	1.31	0.09	0.00	1.41	0.00	53.00	0.00	0.	0.00
197	4.100	31.10	0.00	0.00	0.00	4.85	5.00	0.00	5.00	0.00	1.31	0.09	0.00	1.41	0.00	53.00	0.00	0.	0.00
198	4.000	31.10	0.00	0.00	0.00	4.86	4.96	0.00	4.96	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
199	3.900	31.10	0.00	0.00	0.00	4.88	4.91	0.00	4.91	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
200	3.800	31.10	0.00	0.00	0.00	4.89	4.86	0.00	4.86	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
201	3.700	31.10	0.00	0.00	0.00	4.90	4.81	0.00	4.81	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
202	3.600	31.10	0.00	0.00	0.00	4.92	4.77	0.00	4.77	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
203	3.500	31.10	0.00	0.00	0.00	4.93	4.72	0.00	4.72	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
204	3.400	31.10	0.00	0.00	0.00	4.95	4.68	0.00	4.68	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
205	3.300	31.10	0.00	0.00	0.00	4.96	4.63	0.00	4.63	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
206	3.200	31.10	0.00	0.00	0.00	4.97	4.59	0.00	4.59	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
207	3.100	31.10	0.00	0.00	0.00	4.99	4.54	0.00	4.54	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
208	3.000	31.10	0.00	0.00	0.00	5.01	4.50	0.00	4.50	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
209	2.900	31.10	0.00	0.00	0.00	5.02	4.46	0.00	4.46	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
210	2.800	31.10	0.00	0.00	0.00	5.04	4.41	0.00	4.41	0.00	1.31	0.09	0.00	1.40	0.00	53.00	0.00	0.	0.00
211	2.700	31.10	0.00	0.00	0.00	5.05	4.37	0.00	4.37	0.00	1.31	0.09	0.00	1.39	0.00	53.00	0.00	0.	0.00
212	2.600	31.10	0.00	0.00	0.00	5.07	4.33	0.00	4.33	0.00	1.31	0.09	0.00	1.39	0.00	53.00	0.00	0.	0.00
213	2.500	31.10	0.00	0.00	0.00	5.09	4.29	0.00	4.29	0.00	1.31	0.09	0.00	1.39	0.00	53.00	0.00	0.	0.00
214	2.400	31.10	0.00	0.00	0.00	5.10	4.25	0.00	4.25	0.00	1.31	0.09	0.00	1.39	0.00	53.00	0.00	0.	0.00
215	2.300	31.10	0.00	0.00	0.00	5.12	4.20	0.00	4.20	0.00	1.31	0.09	0.00	1.39	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 8 Mandalay WR Bndy to constriction Calibration Simulation for Lake de Cade Theriot and Hache model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A	COLI #/100mL	NCM
216	UPR RCH	4.38312	31.10	0.00	0.00	0.00	5.12	4.20	0.00	4.20	0.00	1.31	0.09	0.00	0.00	53.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
216	2.30	2.20	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026

217	2.20	2.10	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026
218	2.10	2.00	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026
219	2.00	1.90	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026
220	1.90	1.80	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026
221	1.80	1.70	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026
222	1.70	1.60	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026
223	1.60	1.50	4.38312	0.0	0.02571	0.05	1.55	110.00	17050.00	11000.00	170.50	0.00	0.000	0.100	0.026
TOT					0.36			136400.00	88000.00						
AVG				0.0257			1.55	110.00			170.50				
CUM					19.21										

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	ABOD#1 DECAY	BOD#2 DECAY	BOD#2 SETT	ABOD#2 DECAY	BKGD SOD	FULL SOD	CORR SOD	ORGN DECAY	ORGN SETT	NH3 DECAY	NH3 SRCE	DENIT RATE	PO4 SRCE	ALG PROD	MAC PROD	COLI DECAY	NCM DECAY	NCM SETT
	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da	
216	2.200	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
217	2.100	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
218	2.000	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
219	1.900	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
220	1.800	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
221	1.700	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
222	1.600	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
223	1.500	7.42	0.55	0.52	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.45	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.45	0.31	0.00	0.00	0.00	0.00	0.00	2.00			0.01	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS µg/L	CHL A g/m³	MACRO	COLI #/100mL	NCM
216	2.200	31.10	0.00	0.00	0.00	5.16	4.11	0.00	4.11	0.00	1.31	0.08	0.00	1.39	0.00	53.00	0.00	0.	0.00
217	2.100	31.10	0.00	0.00	0.00	5.19	4.01	0.00	4.01	0.00	1.30	0.08	0.00	1.39	0.00	53.00	0.00	0.	0.00
218	2.000	31.10	0.00	0.00	0.00	5.23	3.92	0.00	3.92	0.00	1.30	0.08	0.00	1.39	0.00	53.00	0.00	0.	0.00
219	1.900	31.10	0.00	0.00	0.00	5.27	3.83	0.00	3.83	0.00	1.30	0.08	0.00	1.39	0.00	53.00	0.00	0.	0.00
220	1.800	31.10	0.00	0.00	0.00	5.31	3.75	0.00	3.75	0.00	1.30	0.08	0.00	1.38	0.00	53.00	0.00	0.	0.00
221	1.700	31.10	0.00	0.00	0.00	5.35	3.66	0.00	3.66	0.00	1.30	0.08	0.00	1.38	0.00	53.00	0.00	0.	0.00
222	1.600	31.10	0.00	0.00	0.00	5.39	3.58	0.00	3.58	0.00	1.30	0.08	0.00	1.38	0.00	53.00	0.00	0.	0.00
223	1.500	31.10	0.00	0.00	0.00	5.44	3.50	0.00	3.50	0.00	1.30	0.08	0.00	1.38	0.00	53.00	0.00	0.	0.00

FINAL REPORT Lake de Cade Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

REACH NO. 9 constriction to Lake Hache inflo Calibration Simulation for Lake de Cade Theriot and Hache model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS µg/L	CHL A #/100mL	COLI	NCM
224	UPR RCH	4.38312	31.10	0.00	0.00	0.00	0.00	5.44	3.50	0.00	3.50	0.00	1.30	0.08	0.00	0.00	53.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m³	VOLUME m²	SURFACE AREA m²	X-SECT AREA m³	TIDAL PRISM m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN VELO
224	1.50	1.40	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094
225	1.40	1.30	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094
226	1.30	1.20	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094
227	1.20	1.10	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094
228	1.10	1.00	4.38312	0.0	0.09426	0.01	1.55	30.00	4650.00	3000.00	46.50	0.00	0.000	0.100	0.094

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 229   1.00   0.90   4.38312  0.0  0.09426    0.01   1.55  30.00  4650.00   3000.00  46.50    0.00  0.000    0.100  0.094
 230   0.90   0.80   4.38312  0.0  0.09426    0.01   1.55  30.00  4650.00   3000.00  46.50    0.00  0.000    0.100  0.094
 231   0.80   0.70   4.38312  0.0  0.09426    0.01   1.55  30.00  4650.00   3000.00  46.50    0.00  0.000    0.100  0.094
 232   0.70   0.60   4.38312  0.0  0.09426    0.01   1.55  30.00  4650.00   3000.00  46.50    0.00  0.000    0.100  0.094
 TOT                                 0.11              41850.00  27000.00
 AVG                          0.0943          1.55  30.00                  46.50
 CUM                                 19.33
********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************
 ELEM  ENDING  SAT   REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN  ORGN   NH3   NH3  DENIT   PO4   ALG   MAC   COLI   NCM   NCM
 NO.    DIST  D.O.   RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY  SETT
          mg/L   1/da  1/da  1/da  1/da  1/da  1/da  1/da   *    *    *   1/da  1/da  1/da   *   1/da   *   **   **   1/da  1/da  1/da
 224   1.400  7.42   0.77  0.52  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.45  0.00  0.00  0.00  4.79  0.00  0.00  0.00  0.00
 225   1.300  7.42   0.77  0.52  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.45  0.00  0.00  0.00  5.17  0.00  0.00  0.00  0.00
 226   1.200  7.42   0.77  0.52  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.45  0.00  0.00  0.00  5.55  0.00  0.00  0.00  0.00
 227   1.100  7.42   0.77  0.52  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.45  0.00  0.00  0.00  5.93  0.00  0.00  0.00  0.00
 228   1.000  7.42   0.77  0.52  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.45  0.00  0.00  0.00  6.31  0.00  0.00  0.00  0.00
 229   0.900  7.42   0.77  0.52  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.45  0.00  0.00  0.00  6.69  0.00  0.00  0.00  0.00
 230   0.800  7.42   0.77  0.52  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.46  0.00  0.00  0.00  7.07  0.00  0.00  0.00  0.00
 231   0.700  7.42   0.77  0.52  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.46  0.00  0.00  0.00  7.45  0.00  0.00  0.00  0.00
 232   0.600  7.42   0.77  0.52  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.46  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
 AVG 20 DEG C RATE    0.63  0.31  0.00  0.00  0.00  0.00  0.00  2.00            0.01  0.00  0.20  0.00  0.00  0.00            0.00  0.00  0.00
 *  g/m²/d          **   mg/L/day
*************************************************** WATER QUALITY CONSTITUENT VALUES ***************************************************
 ELEM  ENDING   TEMP  SALN    CM-I   CM-II   DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN   NH3  NO3+2   TOTN   PHOS  CHL A   MACRO    COLI    NCM
 NO.    DIST  DEG C   PPT                 mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L   g/m³  #/100mL
 224   1.400  31.10  0.00    0.00    0.00  5.46  3.48  0.00  3.48  0.00  1.30  0.08  0.00  1.38  0.00  57.56   0.00     0.   0.00
 225   1.300  31.10  0.00    0.00    0.00  5.48  3.46  0.00  3.46  0.00  1.30  0.08  0.00  1.38  0.00  62.11   0.00     0.   0.00
 226   1.200  31.10  0.00    0.00    0.00  5.51  3.43  0.00  3.43  0.00  1.30  0.08  0.00  1.38  0.00  66.67   0.00     0.   0.00
 227   1.100  31.10  0.00    0.00    0.00  5.55  3.41  0.00  3.41  0.00  1.30  0.08  0.00  1.38  0.00  71.22   0.00     0.   0.00
 228   1.000  31.10  0.00    0.00    0.00  5.59  3.39  0.00  3.39  0.00  1.30  0.08  0.00  1.38  0.00  75.78   0.00     0.   0.00
 229   0.900  31.10  0.00    0.00    0.00  5.63  3.37  0.00  3.37  0.00  1.30  0.08  0.00  1.38  0.00  80.33   0.00     0.   0.00
 230   0.800  31.10  0.00    0.00    0.00  5.68  3.35  0.00  3.35  0.00  1.30  0.08  0.00  1.38  0.00  84.89   0.00     0.   0.00
 231   0.700  31.10  0.00    0.00    0.00  5.73  3.33  0.00  3.33  0.00  1.30  0.08  0.00  1.38  0.00  89.44   0.00     0.   0.00
 232   0.600  31.10  0.00    0.00    0.00  5.79  3.31  0.00  3.31  0.00  1.30  0.08  0.00  1.38  0.00  94.00   0.00     0.   0.00
FINAL REPORT   Lake de Cade                          Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 12   Lake Hache inflow to 406 boundar          Calibration Simulation for Lake de Cade Theriot and Hache model
************************************************************** REACH INPUTS ***************************************************************
 ELEM  TYPE       FLOW    TEMP    SALN    CM-I   CM-II    DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN   NH3  NO3+2   PHOS  CHL A    COLI    NCM
 NO.                deg C    ppt                mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL
 244  UPR RCH   4.38312  31.10    0.00    0.00    0.00  5.79  3.31  0.00  3.31  0.00  1.30  0.08  0.00  0.00  94.00    0.00    0.00
 244  TRIB      0.11330  31.10    0.00    0.00    0.00  6.86  11.94  0.00  11.94  0.00  1.53  0.10  0.00  0.00  94.00    0.00    0.00
************************************************** HYDRAULIC PARAMETER VALUES **************************************************
 ELEM  BEGIN  ENDING     FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE  X-SECT    TIDAL  TIDAL  DISPRSN   MEAN
 NO.   DIST   DIST        EFF   VELO    TIME                        AREA    AREA    PRISM   VELO          VELO
       km     km        m³/s      m/s    days     m      m      m³      m²      m²      m³     m/s    m²/s    m/s
 244   0.60   0.50   4.49642  0.0  0.14505    0.01   1.55  20.00  3100.00   2000.00  31.00    0.00  0.000    0.100  0.145
 245   0.50   0.40   4.49642  0.0  0.14505    0.01   1.55  20.00  3100.00   2000.00  31.00    0.00  0.000    0.100  0.145
 246   0.40   0.30   4.49642  0.0  0.14505    0.01   1.55  20.00  3100.00   2000.00  31.00    0.00  0.000    0.100  0.145
 247   0.30   0.20   4.49642  0.0  0.14505    0.01   1.55  20.00  3100.00   2000.00  31.00    0.00  0.000    0.100  0.145
 248   0.20   0.10   4.49642  0.0  0.14505    0.01   1.55  20.00  3100.00   2000.00  31.00    0.00  0.000    0.100  0.145
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 249   0.10   0.00   4.49642  0.0  0.14505    0.01   1.55  20.00  3100.00   2000.00  31.00     0.00  0.000    0.100  0.145
 TOT                                  0.05              18600.00  12000.00
 AVG                            0.1450          1.55  20.00                  31.00
 CUM                                  19.37
********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS **********************************************
ELEM  ENDING  SAT   REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR  ORGN ORGN   NH3  NH3 DENIT  PO4  ALG  MAC  COLI  NCM   NCM
NO.    DIST  D.O.   RATE  DECAY SETT  DECAY  DECAY  SETT  DECAY  SOD   SOD   SOD  DECAY  SETT  DECAY SRCE  RATE SRCE PROD PROD DECAY DECAY  SETT
          mg/L   1/da  1/da  1/da  1/da  1/da  1/da  1/da   *    *    *   1/da  1/da  1/da   *   1/da   *   **   **   1/da  1/da  1/da
244   0.500  7.39   0.95  0.52  0.00  0.00  0.00  0.00  0.00  4.08  4.08  4.08  0.01  0.00  0.47  0.00  0.00  0.00  6.59  0.00  0.00  0.00  0.00
245   0.400  7.36   0.96  0.53  0.00  0.00  0.00  0.00  0.00  4.13  4.13  4.13  0.01  0.00  0.48  0.00  0.00  0.00  5.32  0.00  0.00  0.00  0.00
246   0.300  7.34   0.96  0.53  0.00  0.00  0.00  0.00  0.00  4.19  4.19  4.19  0.01  0.00  0.48  0.00  0.00  0.00  4.04  0.00  0.00  0.00  0.00
247   0.200  7.31   0.97  0.54  0.00  0.00  0.00  0.00  0.00  4.25  4.25  4.25  0.01  0.00  0.49  0.00  0.00  0.00  2.72  0.00  0.00  0.00  0.00
248   0.100  7.28   0.97  0.54  0.00  0.00  0.00  0.00  0.00  4.31  4.31  4.31  0.01  0.00  0.50  0.00  0.00  0.00  1.38  0.00  0.00  0.00  0.00
249   0.000  7.26   0.97  0.55  0.00  0.00  0.00  0.00  0.00  4.37  4.37  4.37  0.01  0.00  0.51  0.00  0.00  0.00  0.01  0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    0.78  0.31  0.00  0.00  0.00  0.00  0.00  2.00            0.01  0.00  0.20  0.00  0.00  0.00            0.00  0.00  0.00
*  g/m²/d          **   mg/L/day
********************************************** WATER QUALITY CONSTITUENT VALUES **********************************************
ELEM  ENDING  TEMP  SALN    CM-I   CM-II   DO  BOD#1  BOD#2 EBOD#1 EBOD#2  ORGN   NH3  NO3+2  TOTN  PHOS  CHL A  MACRO    COLI    NCM
NO.    DIST  DEG C  PPT                  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L   µg/L   g/m³  #/100mL
244   0.500  31.32  0.00    0.00    0.00  5.87  3.78  0.00  3.78  0.00  1.31  0.08  0.00  1.39  0.00  78.35   0.00      0.   0.00
245   0.400  31.53  0.00    0.00    0.00  5.89  3.77  0.00  3.77  0.00  1.31  0.08  0.00  1.39  0.00  62.70   0.00      0.   0.00
246   0.300  31.75  0.00    0.00    0.00  5.89  3.75  0.00  3.75  0.00  1.31  0.08  0.00  1.39  0.00  47.05   0.00      0.   0.00
247   0.200  31.97  0.00    0.00    0.00  5.89  3.73  0.00  3.73  0.00  1.31  0.08  0.00  1.39  0.00  31.40   0.00      0.   0.00
248   0.100  32.18  0.00    0.00    0.00  5.87  3.72  0.00  3.72  0.00  1.31  0.08  0.00  1.39  0.00  15.74   0.00      0.   0.00
249   0.000  32.40  0.00    0.00    0.00  5.84  3.72  0.00  3.72  0.00  1.29  0.08  0.00  1.37  0.00   0.09   0.00      0.   0.00
STREAM SUMMARY                                  Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Lake de Cade                                    Calibration Simulation for Lake de Cade Theriot and Hache model
 TRAVEL TIME      =         19.37 DAYS
 MAXIMUM EFFLUENT  =         0.00 PERCENT
 FLOW           =  3.78841 TO   14.10101   m³/s
 DISPERSION      =  0.1000  TO    0.5000    m²/s
 VELOCITY        =  0.00238 TO    0.24990   m/s
 DEPTH          =  1.55    TO    1.55      m
 WIDTH          =  10.00    TO  *******      m
 BOD DECAY       =    0.22   TO    0.55      per day
 NH3 DECAY       =    0.42   TO    0.51      per day
 SOD            =   2.41   TO    5.03      g/m²/d
 NH3 SOURCE      =    0.00   TO    0.00      g/m²/d
 REAERATION      =    0.55   TO    1.25      per day
 BOD SETTLING    =    0.00   TO    0.00      per day
 ORG-N DECAY     =    0.00   TO    0.01      per day
 ORG-N SETTLING   =    0.00   TO    0.00      per day
 TEMPERATURE      =   31.10   TO   32.40      deg C
 DISSOLVED OXYGEN =    4.09   TO    6.54      mg/L
FINAL REPORT    Lake Theriot                    Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO.  5    Lake Theriot                    Calibration Simulation for Lake de Cade Theriot and Hache model
********************************************************** REACH INPUTS **********************************************************
ELEM  TYPE      FLOW    TEMP    SALN    CM-I   CM-II    DO  BOD#1  BOD#2 EBOD#1 EBOD#2  ORGN   NH3  NO3+2  PHOS  CHL A    COLI    NCM
NO.                deg C    ppt                mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L   µg/L  #/100mL
 143  HDWTR    0.00971   31.10    0.00    0.00    0.00  6.90  2.72  0.00  2.72  0.00  0.90  0.10  0.04  0.00  53.00    0.00    0.00
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EACH INCR 0.02000 31.13 0.00 0.00 0.00 5.00 45.00 0.00 2.00 1.00 0.04 0.00 0.00 0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	VELO m/s	ADVCTV TIME days	TRAVEL m	DEPTH m	WIDTH m³	AREA m²	VOLUME m²	AREA m³	SURFACE PRISM m/s	X-SECT VELO m²/s	TIDAL VELO m/s	TIDAL	DISPRSN	MEAN
143	2.90	2.80	0.02971	0.0	0.00002	75.67	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
144	2.80	2.70	0.04971	0.0	0.00003	45.23	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
145	2.70	2.60	0.06971	0.0	0.00004	32.25	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
146	2.60	2.50	0.08971	0.0	0.00005	25.06	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
147	2.50	2.40	0.10971	0.0	0.00006	20.49	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
148	2.40	2.30	0.12971	0.0	0.00007	17.33	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
149	2.30	2.20	0.14971	0.0	0.00008	15.02	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
150	2.20	2.10	0.16971	0.0	0.00009	13.25	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
151	2.10	2.00	0.18971	0.0	0.00010	11.85	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
152	2.00	1.90	0.20971	0.0	0.00011	10.72	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
153	1.90	1.80	0.22971	0.0	0.00012	9.79	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
154	1.80	1.70	0.24971	0.0	0.00013	9.00	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
155	1.70	1.60	0.26971	0.0	0.00014	8.34	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
156	1.60	1.50	0.28971	0.0	0.00015	7.76	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
157	1.50	1.40	0.30971	0.0	0.00016	7.26	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
158	1.40	1.30	0.32971	0.0	0.00017	6.82	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
159	1.30	1.20	0.34971	0.0	0.00018	6.43	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
160	1.20	1.10	0.36971	0.0	0.00019	6.08	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
161	1.10	1.00	0.38971	0.0	0.00020	5.77	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
162	1.00	0.90	0.40971	0.0	0.00021	5.49	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
163	0.90	0.80	0.42971	0.0	0.00022	5.23	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
164	0.80	0.70	0.44971	0.0	0.00023	5.00	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
165	0.70	0.60	0.46971	0.0	0.00024	4.79	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
166	0.60	0.50	0.48971	0.0	0.00025	4.59	0.80	2428.00	194240.00	242800.00	1942.40	0.00	0.000	0.000	0.000			
TOT						359.20			4661760.00	5827200.00								
AVG				0.0001			0.80	2428.00			1942.40							
CUM						359.20												

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

ELEM NO.	ENDING DIST mg/L	SAT D.O.	REAER RATE 1/da	DECAY 1/da	SETT 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 SETT *	BOD#2 DECAY *	ABOD#2 SOD *	BKGD SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORGN SETT 1/da	ORGN DECAY 1/da	SRCE *	NH3 RATE 1/da	NH3 SRCE *	DENIT PROD **	PO4 PROD **	ALG DECAY 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
143	2.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
144	2.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
145	2.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
146	2.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
147	2.400	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
148	2.300	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
149	2.200	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
150	2.100	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
151	2.000	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
152	1.900	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
153	1.800	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
154	1.700	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
155	1.600	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			
156	1.500	7.42	1.43	0.10	0.00	0.00	0.00	0.00	0.00	4.02	4.02	4.02	0.01	0.00	0.47	0.00	0.00	0.00	4.41	0.00	0.00	0.00	0.00			

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157   1.400 7.42   1.43  0.10 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00  0.00
158   1.300 7.42   1.43  0.10 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00  0.00
159   1.200 7.42   1.43  0.10 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00  0.00
160   1.100 7.42   1.43  0.10 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00  0.00
161   1.000 7.42   1.43  0.10 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00  0.00
162   0.900 7.42   1.43  0.10 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00  0.00
163   0.800 7.42   1.43  0.10 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00  0.00
164   0.700 7.42   1.43  0.10 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00  0.00
165   0.600 7.42   1.43  0.10 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00  0.00
166   0.500 7.42   1.43  0.10 0.00  0.00  0.00 0.00  0.00 4.02 4.02 4.02  0.01 0.00  0.47 0.00  0.00 0.00 4.41 0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    1.16  0.06 0.00  0.00  0.00 0.00  0.00 2.00          0.01 0.00  0.20 0.00  0.00 0.00          0.00  0.00  0.00
*  g/m²/d          **  mg/L/day
************************************************** WATER QUALITY CONSTITUENT VALUES **************************************************
ELEM ENDING  TEMP SALN    CM-I   CM-II   DO  BOD#1 BOD#2 EBOD#1 EBOD#2  ORGN   NH3 NO3+2  TOTN  PHOS CHL A  MACRO    COLI    NCM
NO.   DIST DEG C  PPT              mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  g/m³ #/100mL
143   2.800 31.10 0.00    0.00    0.00  6.66  3.64  0.00  3.64  0.00  0.84  0.04  0.00  0.89  0.00 53.00  0.00     0.  0.00
144   2.700 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.84  0.04  0.00  0.88  0.00 53.00  0.00     0.  0.00
145   2.600 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.84  0.04  0.00  0.88  0.00 53.00  0.00     0.  0.00
146   2.500 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
147   2.400 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
148   2.300 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
149   2.200 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
150   2.100 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
151   2.000 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
152   1.900 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
153   1.800 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
154   1.700 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
155   1.600 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
156   1.500 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
157   1.400 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
158   1.300 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
159   1.200 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
160   1.100 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
161   1.000 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
162   0.900 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
163   0.800 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
164   0.700 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
165   0.600 31.10 0.00    0.00    0.00  6.66  3.68  0.00  3.68  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
166   0.500 31.10 0.00    0.00    0.00  6.66  3.69  0.00  3.69  0.00  0.83  0.04  0.00  0.87  0.00 53.00  0.00     0.  0.00
FINAL REPORT   Lake Theriot                          Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO.  6   Lake Theriot Discharge                Calibration Simulation for Lake de Cade Theriot and Hache model
************************************************************ REACH INPUTS ************************************************************
ELEM TYPE      FLOW    TEMP    SALN    CM-I   CM-II    DO  BOD#1 BOD#2 EBOD#1 EBOD#2  ORGN   NH3 NO3+2  PHOS CHL A    COLI    NCM
NO.            deg C   ppt             mg/L   mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L #/100mL
167 UPR RCH  0.48971  31.10    0.00    0.00    0.00  6.66  3.69  0.00  3.69  0.00  0.83  0.04  0.00  0.00 53.00    0.00    0.00
EACH INCR    0.00400  31.13    0.00    0.00    0.00  5.00 45.00  0.00            2.00  1.00  0.04  0.00    0.00    0.00
************************************************** HYDRAULIC PARAMETER VALUES **************************************************
ELEM  BEGIN ENDING    FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE X-SECT   TIDAL  TIDAL  DISPRSN   MEAN
NO.   DIST  DIST      EFF   VELO   TIME                        AREA   AREA   PRISM   VELO          VELO
      km    km      m³/s        m/s   days     m      m      m³      m²     m²     m³     m/s    m²/s    m/s
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 167   0.50   0.40   0.49371  0.0  0.01297   0.09   1.90  20.00  3808.00   2000.00  38.08    0.00  0.000    0.200  0.013
 168   0.40   0.30   0.49771  0.0  0.01307   0.09   1.90  20.00  3808.00   2000.00  38.08    0.00  0.000    0.200  0.013
 169   0.30   0.20   0.50171  0.0  0.01318   0.09   1.90  20.00  3808.00   2000.00  38.08    0.00  0.000    0.200  0.013
 170   0.20   0.10   0.50571  0.0  0.01328   0.09   1.90  20.00  3808.00   2000.00  38.08    0.00  0.000    0.200  0.013
 171   0.10   0.00   0.50971  0.0  0.01339   0.09   1.90  20.00  3808.00   2000.00  38.08    0.00  0.000    0.200  0.013
 TOT                                  0.44              19040.00  10000.00
 AVG                          0.0132          1.90  20.00                38.08
 CUM                                  359.64
*********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS ***********************************************
 ELEM  ENDING  SAT   REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR  ORGN ORGN   NH3  NH3 DENIT  PO4  ALG  MAC  COLI   NCM   NCM
 NO.    DIST  D.O.   RATE  DECAY SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD  DECAY  SETT  DECAY SRCE  RATE SRCE  PROD  PROD  DECAY  DECAY  SETT
          mg/L   1/da  1/da  1/da  1/da  1/da  1/da  1/da   *    *    *   1/da  1/da  1/da   *   1/da   *   **   **   1/da  1/da  1/da
 167   0.400  7.42   0.45  0.22  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.47  0.00  0.00  0.00  4.41  0.00  0.00  0.00  0.00
 168   0.300  7.42   0.45  0.22  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.47  0.00  0.00  0.00  4.41  0.00  0.00  0.00  0.00
 169   0.200  7.42   0.45  0.22  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.47  0.00  0.00  0.00  4.41  0.00  0.00  0.00  0.00
 170   0.100  7.42   0.45  0.22  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.47  0.00  0.00  0.00  4.41  0.00  0.00  0.00  0.00
 171   0.000  7.42   0.45  0.22  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.01  0.00  0.47  0.00  0.00  0.00  4.41  0.00  0.00  0.00  0.00
 AVG 20 DEG C RATE    0.37  0.13  0.00  0.00  0.00  0.00  0.00  2.00            0.01  0.00  0.20  0.00  0.00  0.00            0.00  0.00  0.00
 *  g/m²/d          **   mg/L/day
*********************************************** WATER QUALITY CONSTITUENT VALUES ***********************************************
 ELEM  ENDING   TEMP  SALN    CM-I   CM-II   DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN   NH3  NO3+2   TOTN   PHOS  CHL A   MACRO    COLI    NCM
 NO.    DIST  DEG C  PPT                 mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L   µg/L   g/m³  #/100mL
 167   0.400  31.10  0.00    0.00    0.00  6.80  3.97  0.00  3.97  0.00  0.84  0.05  0.00  0.89  0.00  53.00   0.00      0.   0.00
 168   0.300  31.10  0.00    0.00    0.00  6.91  4.22  0.00  4.22  0.00  0.85  0.05  0.00  0.91  0.00  53.00   0.00      0.   0.00
 169   0.200  31.10  0.00    0.00    0.00  7.01  4.46  0.00  4.46  0.00  0.86  0.06  0.00  0.92  0.00  53.00   0.00      0.   0.00
 170   0.100  31.10  0.00    0.00    0.00  7.02  4.74  0.00  4.74  0.00  0.88  0.07  0.00  0.95  0.00  53.00   0.00      0.   0.00
 171   0.000  31.10  0.00    0.00    0.00  6.48  5.30  0.00  5.30  0.00  1.00  0.08  0.00  1.08  0.00  53.00   0.00      0.   0.00
STREAM SUMMARY                                  Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Lake Theriot                                    Calibration Simulation for Lake de Cade Theriot and Hache model
 TRAVEL TIME      =        359.64 DAYS
 MAXIMUM EFFLUENT  =          0.00 PERCENT
 FLOW            =  0.02971 TO   0.50971   m³/s
 DISPERSION       =  0.0000  TO   0.2000   m²/s
 VELOCITY         =  0.00002 TO   0.01339   m/s
 DEPTH           =  0.80   TO   1.90     m
 WIDTH           =  20.00   TO  ******     m
 BOD DECAY        =   0.10   TO   0.22     per day
 NH3 DECAY        =   0.47   TO   0.47     per day
 SOD             =   4.02   TO   4.02     g/m²/d
 NH3 SOURCE       =   0.00   TO   0.00     g/m²/d
 REAERATION       =   0.45   TO   1.43     per day
 BOD SETTLING     =   0.00   TO   0.00     per day
 ORG-N DECAY      =   0.01   TO   0.01     per day
 ORG-N SETTLING   =   0.00   TO   0.00     per day
 TEMPERATURE      =  31.10   TO  31.10     deg C
 DISSOLVED OXYGEN =   6.48   TO   7.02     mg/L
FINAL REPORT   Lake Hache                       Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
REACH NO. 10   Lake Hache                       Calibration Simulation for Lake de Cade Theriot and Hache model
*********************************************************** REACH INPUTS ***********************************************************
 ELEM  TYPE      FLOW    TEMP    SALN    CM-I   CM-II    DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN   NH3  NO3+2   PHOS  CHL A    COLI    NCM
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NO.                 deg C    ppt                mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L  #/100mL
 233 HDWTR    0.00100  31.10    0.00    0.00    8.70 60.00  0.00 60.00  0.00  2.10  0.10  0.04  0.00 94.00    0.00   0.00
EACH  INCR    0.00981  31.13    0.00    0.00    0.00  5.00 60.00  0.00            2.40  1.00  0.04  0.00    0.00   0.00
************************************************** HYDRAULIC PARAMETER VALUES **************************************************
ELEM  BEGIN ENDING     FLOW  PCT  ADVCTV   TRAVEL  DEPTH  WIDTH   VOLUME   SURFACE X-SECT    TIDAL  TIDAL  DISPRSN   MEAN
 NO.  DIST  DIST        EFF   VELO    TIME                        AREA   AREA    PRISM   VELO          VELO
      km    km      m³/s        m/s   days     m      m      m³      m²     m²      m³    m/s    m²/s   m/s
 233  1.10  1.00  0.01081  0.0  0.00001   77.89   0.75  970.00  72750.00  97000.00  727.50    0.00  0.000    0.000  0.000
 234  1.00  0.90  0.02062  0.0  0.00003   40.83   0.75  970.00  72750.00  97000.00  727.50    0.00  0.000    0.000  0.000
 235  0.90  0.80  0.03043  0.0  0.00004   27.67   0.75  970.00  72750.00  97000.00  727.50    0.00  0.000    0.000  0.000
 236  0.80  0.70  0.04024  0.0  0.00006   20.92   0.75  970.00  72750.00  97000.00  727.50    0.00  0.000    0.000  0.000
 237  0.70  0.60  0.05005  0.0  0.00007   16.82   0.75  970.00  72750.00  97000.00  727.50    0.00  0.000    0.000  0.000
 238  0.60  0.50  0.05986  0.0  0.00008   14.07   0.75  970.00  72750.00  97000.00  727.50    0.00  0.000    0.000  0.000
 239  0.50  0.40  0.06967  0.0  0.00010   12.09   0.75  970.00  72750.00  97000.00  727.50    0.00  0.000    0.000  0.000
 240  0.40  0.30  0.07948  0.0  0.00011   10.59   0.75  970.00  72750.00  97000.00  727.50    0.00  0.000    0.000  0.000
 241  0.30  0.20  0.08929  0.0  0.00012    9.43   0.75  970.00  72750.00  97000.00  727.50    0.00  0.000    0.000  0.000
 242  0.20  0.10  0.09910  0.0  0.00014    8.50   0.75  970.00  72750.00  97000.00  727.50    0.00  0.000    0.000  0.000
 TOT                                   238.82            727500.00  970000.00
 AVG                            0.0000          0.75  970.00                727.50
 CUM                                   238.82
************************************************ BIOLOGICAL AND PHYSICAL COEFFICIENTS ************************************************
ELEM  ENDING  SAT   REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR  ORGN ORGN   NH3  NH3 DENIT  PO4  ALG  MAC  COLI  NCM   NCM
NO.   DIST  D.O.   RATE  DECAY SETT  DECAY  DECAY  SETT  DECAY  SOD   SOD   SOD  DECAY  SETT  DECAY SRCE  RATE SRCE PROD PROD DECAY DECAY  SETT
          mg/L   1/da  1/da  1/da  1/da  1/da  1/da  1/da   *     *     *    1/da  1/da  1/da   *    1/da   *   **   **   1/da  1/da  1/da
 233  1.000  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
 234  0.900  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
 235  0.800  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
 236  0.700  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
 237  0.600  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
 238  0.500  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
 239  0.400  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
 240  0.300  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
 241  0.200  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
 242  0.100  7.42   1.52  0.02  0.00  0.00  0.00  0.00  0.00  4.02  4.02  4.02  0.00  0.00  0.48  0.00  0.00  0.00  7.83  0.00  0.00  0.00  0.00
AVG 20 DEG C RATE    1.24  0.01  0.00  0.00  0.00  0.00  0.00  2.00            0.00  0.00  0.20  0.00  0.00  0.00            0.00  0.00  0.00
*  g/m²/d          **   mg/L/day
************************************************ WATER QUALITY CONSTITUENT VALUES ************************************************
ELEM  ENDING  TEMP  SALN    CM-I   CM-II   DO  BOD#1  BOD#2 EBOD#1 EBOD#2  ORGN   NH3  NO3+2  TOTN  PHOS  CHL A  MACRO    COLI    NCM
NO.   DIST  DEG C  PPT                mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  µg/L   g/m³  #/100mL
 233  1.000  31.10  0.00    0.00    0.00  8.67  26.12  0.00  26.12  0.00  1.84  0.04  0.00  1.88  0.00  94.00   0.00     0.   0.00
 234  0.900  31.10  0.00    0.00    0.00  8.68  25.14  0.00  25.14  0.00  1.83  0.04  0.00  1.86  0.00  94.00   0.00     0.   0.00
 235  0.800  31.10  0.00    0.00    0.00  8.68  24.91  0.00  24.91  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00     0.   0.00
 236  0.700  31.10  0.00    0.00    0.00  8.68  24.82  0.00  24.82  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00     0.   0.00
 237  0.600  31.10  0.00    0.00    0.00  8.68  24.77  0.00  24.77  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00     0.   0.00
 238  0.500  31.10  0.00    0.00    0.00  8.69  24.75  0.00  24.75  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00     0.   0.00
 239  0.400  31.10  0.00    0.00    0.00  8.69  24.74  0.00  24.74  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00     0.   0.00
 240  0.300  31.10  0.00    0.00    0.00  8.69  24.73  0.00  24.73  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00     0.   0.00
 241  0.200  31.10  0.00    0.00    0.00  8.69  24.72  0.00  24.72  0.00  1.82  0.04  0.00  1.86  0.00  94.00   0.00     0.   0.00
 242  0.100  31.10  0.00    0.00    0.00  8.66  21.46  0.00  21.46  0.00  1.74  0.04  0.00  1.78  0.00  94.00   0.00     0.   0.00
FINAL REPORT    Lake Hache                          Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
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REACH NO. 11    Lake Hache Discharge                    Calibration Simulation for Lake de Cade Theriot and Hache model
********************************************************** REACH INPUTS ************************************************************
ELEM  TYPE      FLOW    TEMP    SALN    CM-I    CM-II    DO  BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   PHOS  CHL A    COLI    NCM
NO.                 deg C     ppt                mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L  #/100mL
 243  UPR RCH   0.09910   31.10    0.00    0.00    0.00   8.66  21.46   0.00  21.46   0.00   1.74   0.04   0.00   0.00  94.00    0.00    0.00
EACH  INCR     0.01420   31.13    0.00    0.00    0.00   5.00  45.00   0.00              2.00   1.00   0.04   0.00    0.00    0.00
********************************************************** HYDRAULIC PARAMETER VALUES ***********************************************
ELEM   BEGIN  ENDING     FLOW  PCT  ADVCTV   TRAVEL   DEPTH   WIDTH   VOLUME   SURFACE  X-SECT    TIDAL   TIDAL   DISPRSN    MEAN
 NO.   DIST   DIST          EFF    VELO     TIME                          AREA    AREA    PRISM    VELO            VELO
       km     km       m³/s          m/s    days      m       m       m³        m²      m²       m³     m/s     m²/s    m/s
 243   0.10   0.00   0.11330   0.0   0.00146    0.79    1.55   50.00   7750.00    5000.00   77.50     0.00   0.000    0.100   0.001
 TOT                                          0.79                7750.00    5000.00
 AVG                                0.0015          1.55   50.00                   77.50
 CUM                                          239.61
********************************************** BIOLOGICAL AND PHYSICAL COEFFICIENTS ***********************************************
ELEM  ENDING  SAT    REAER  BOD#1 BOD#1 ABOD#1  BOD#2 BOD#2 ABOD#2  BKGD  FULL  CORR   ORGN ORGN    NH3   NH3 DENIT   PO4   ALG   MAC   COLI    NCM    NCM
NO.    DIST  D.O.   RATE  DECAY  SETT  DECAY  DECAY  SETT  DECAY   SOD   SOD   SOD DECAY  SETT  DECAY  SRCE   RATE  SRCE  PROD  PROD  DECAY  DECAY   SETT
           mg/L    1/da   1/da   1/da   1/da   1/da   1/da   1/da    *     *     *    1/da   1/da   1/da    *    1/da    *    **    **    1/da   1/da   1/da
243    0.000  7.42    0.55   0.52  0.00   0.00   0.00  0.00   0.00  4.02  4.02  4.02   0.01  0.00   0.47  0.00   0.00  0.00  7.83  0.00   0.00   0.00   0.00
AVG 20 DEG C RATE     0.45   0.31  0.00   0.00   0.00  0.00   0.00  2.00              0.01  0.00   0.20  0.00   0.00  0.00              0.00   0.00   0.00
*   g/m²/d          **   mg/L/day
********************************************** WATER QUALITY CONSTITUENT VALUES ***************************************************
ELEM  ENDING   TEMP  SALN    CM-I    CM-II    DO   BOD#1  BOD#2 EBOD#1 EBOD#2   ORGN    NH3  NO3+2   TOTN   PHOS  CHL A   MACRO    COLI    NCM
NO.    DIST  DEG C   PPT                mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   µg/L   g/m³  #/100mL
243    0.000  31.10  0.00    0.00    0.00   6.86  11.94   0.00  11.94   0.00   1.53   0.10   0.00   1.63   0.00  94.00    0.00      0.    0.00
STREAM SUMMARY                                          Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Lake Hache                                      Calibration Simulation for Lake de Cade Theriot and Hache model
 TRAVEL TIME      =        239.61 DAYS
 MAXIMUM EFFLUENT  =          0.00 PERCENT
 FLOW            =  0.01081 TO    0.11330   m³/s
 DISPERSION       =  0.0000  TO    0.1000    m²/s
 VELOCITY         =  0.00001 TO    0.00146   m/s
 DEPTH           =  0.75    TO    1.55      m
 WIDTH           =  50.00    TO  970.00      m
 BOD DECAY        =    0.02   TO    0.52      per day
 NH3 DECAY        =    0.47   TO    0.48      per day
 SOD             =    4.02   TO    4.02      g/m²/d
 NH3 SOURCE       =    0.00   TO    0.00      g/m²/d
 REAERATION       =    0.55   TO    1.52      per day
 BOD SETTLING     =    0.00   TO    0.00      per day
 ORG-N DECAY      =    0.00   TO    0.01      per day
 ORG-N SETTLING   =    0.00   TO    0.00      per day
 TEMPERATURE      =   31.10   TO   31.10      deg C
 DISSOLVED OXYGEN =    6.86   TO    8.69      mg/L
Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Calibration Simulation for Lake de Cade Theriot and Hache model
REACH SUMMARY REPORT FOR Lake de Cade
 RCH REACH NAME                    BEGIN    ENDING    REACH   TRAVEL   FLOW AT   AVERAGE     AVG    AVG   FLOW AT   AVERAGE     AVG    AVG
 NO.                               DIST     DIST   LENGTH    TIME      EOR      VELO   DEPTH   WIDTH      EOR      VELO   DEPTH   WIDTH
                                   km       km       km      days     m3/s       m/s      m       m      cfs      fps      ft      ft
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  1 Lake Hache incl 937                20.90    16.30    4.60     9.97  14.10101    0.00534   1.550 1527.00   497.907     0.018   5.086 5010.09
  2 Lake Hache incl 120406-B           16.30    13.20    3.10     7.47   3.78841    0.00480   1.550 1029.00   133.769     0.016   5.086 3376.15
  3 L. Hache-405/406 boundary          13.20     9.30    3.90     0.46   3.87341    0.09889   1.550   25.00   136.770     0.324   5.086   82.02
  4 405/406 boundary to L. Theriot      9.30     6.70    2.60     0.12   3.87341    0.24990   1.550   10.00   136.770     0.820   5.086   32.81
  7 L. Theriot to Mandalay WR Bndy      6.70     2.30    4.40     0.83   4.38312    0.06147   1.550   46.00   154.768     0.202   5.086  150.93
  8 Mandalay WR Bndy to constriction    2.30     1.50    0.80     0.36   4.38312    0.02571   1.550  110.00   154.768     0.084   5.086  360.91
  9 constriction to Lake Hache inflo    1.50     0.60    0.90     0.11   4.38312    0.09426   1.550   30.00   154.768     0.309   5.086   98.43
 12 Lake Hache inflow to 406 boundar    0.60     0.00    0.60     0.05   4.49642    0.14505   1.550   20.00   158.768     0.476   5.086   65.62
Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Calibration Simulation for Lake de Cade Theriot and Hache model
REACH SUMMARY REPORT FOR Lake Theriot
 RCH REACH NAME                      BEGIN   ENDING   REACH  TRAVEL  FLOW AT   AVERAGE    AVG    AVG  FLOW AT   AVERAGE    AVG    AVG
 NO.                          DIST    DIST  LENGTH    TIME     EOR     VELO  DEPTH  WIDTH     EOR     VELO  DEPTH  WIDTH
                             km      km     km     days    m3/s      m/s     m      m     cfs     fps     ft     ft
  5 Lake Theriot                    2.90     0.50    2.40   359.20   0.48971    0.00008   0.800 2428.00    17.292     0.000   2.625 7966.27
  6 Lake Theriot Discharge             0.50     0.00    0.50     0.44   0.50971    0.01317   1.904   20.00    17.998     0.043   6.247   65.62
Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)
Calibration Simulation for Lake de Cade Theriot and Hache model
REACH SUMMARY REPORT FOR Lake Hache
 RCH REACH NAME                      BEGIN   ENDING   REACH  TRAVEL  FLOW AT   AVERAGE    AVG    AVG  FLOW AT   AVERAGE    AVG    AVG
 NO.                          DIST    DIST  LENGTH    TIME     EOR     VELO  DEPTH  WIDTH     EOR     VELO  DEPTH  WIDTH
                             km      km     km     days    m3/s      m/s     m      m     cfs     fps     ft     ft
 10 Lake Hache                     1.10     0.10    1.00   238.82   0.09910    0.00005   0.750  970.00     3.499     0.000   2.461 3182.57
 11 Lake Hache Discharge              0.10     0.00    0.10     0.79   0.11330    0.00146   1.550   50.00     4.001     0.005   5.086  164.05
DISSOLVED OXYGEN LOADING FOR REACH   1: Lake de Cade
 IOR  UPMN   UPTR   LOWR  UPMN  UPTR  LOWR  INCR  INCR  NONP  WSLD  WITH  REAE  BOD1 NH3-N ORG-N   NCM   SOD   SOD   SOD   SOD   ALG   ALG   MAC    TOT    TOT
      ADV    ADV    ADV  DISP  DISP  DISP    IN   OUT    IN    IN   OUT    IN  DECA  DECA  DECA  DECA  BKGD  BOD1   ALG   NCM  PHOT  RESP  PHOT    OUT     IN
  1  6298.    0. -6325.    0.    0.   -2.   28.   -1.    0.    0.    0. 161. -140.  -44.    0.    0. -369.    0.    0.    0. 394.    0.    0. -6880.7  6880.6  -0.07
  2  6325.    0. -6358.    2.    0.   -1.   28.   -1.    0.    0.    0. 161. -140.  -42.    0.    0. -369.    0.    0.    0. 394.    0.    0. -6910.9  6910.8  -0.07
  3  6358.    0. -6393.    1.    0.    0.   28.   -1.    0.    0.    0. 161. -140.  -41.    0.    0. -369.    0.    0.    0. 394.    0.    0. -6943.1  6943.1  -0.06
  4  6393.    0. -6428.    0.    0.    1.   28.   -1.    0.    0.    0. 161. -140.  -39.    0.    0. -369.    0.    0.    0. 394.    0.    0. -6977.6  6977.5  -0.06
  5  6428.    0. -6465.   -1.    0.    2.   28.   -1.    0.    0.    0. 161. -140.  -38.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7013.4  7013.4  -0.06
  6  6465.    0. -6501.   -2.    0.    2.   28.   -1.    0.    0.    0. 161. -140.  -37.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7049.8  7049.7  -0.06
  7  6501.    0. -6539.   -2.    0.    2.   28.   -1.    0.    0.    0. 161. -140.  -36.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7086.6  7086.5  -0.06
  8  6539.    0. -6576.   -2.    0.    3.   28.   -1.    0.    0.    0. 160. -140.  -35.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7123.6  7123.6  -0.06
  9  6576.    0. -6614.   -3.    0.    3.   28.   -1.    0.    0.    0. 160. -140.  -34.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7160.9  7160.8  -0.05
 10  6614.    0. -6652.   -3.    0.    3.   28.   -1.    0.    0.    0. 159. -140.  -33.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7198.2  7198.2  -0.05
 11  6652.    0. -6690.   -3.    0.    3.   28.   -1.    0.    0.    0. 159. -140.  -33.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7235.7  7235.7  -0.05
 12  6690.    0. -6728.   -3.    0.    3.   28.   -1.    0.    0.    0. 158. -140.  -32.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7273.2  7273.2  -0.05
 13  6728.    0. -6766.   -3.    0.    3.   28.   -1.    0.    0.    0. 158. -141.  -32.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7310.7  7310.7  -0.05
 14  6766.    0. -6804.   -3.    0.    3.   28.   -1.    0.    0.    0. 157. -141.  -31.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7348.2  7348.2  -0.05
 15  6804.    0. -6842.   -3.    0.    2.   28.   -1.    0.    0.    0. 157. -141.  -31.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7385.7  7385.6  -0.05
 16  6842.    0. -6880.   -2.    0.    2.   28.   -1.    0.    0.    0. 157. -141.  -30.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7423.1  7423.0  -0.05
 17  6880.    0. -6918.   -2.    0.    2.   28.   -1.    0.    0.    0. 156. -141.  -30.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7460.4  7460.3  -0.05
 18  6918.    0. -6955.   -2.    0.    2.   28.   -1.    0.    0.    0. 156. -141.  -30.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7497.6  7497.6  -0.05
 19  6955.    0. -6993.   -2.    0.    2.   28.   -1.    0.    0.    0. 156. -141.  -29.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7534.8  7534.7  -0.05
 20  6993.    0. -7030.   -2.    0.    2.   28.   -1.    0.    0.    0. 155. -141.  -29.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7571.9  7571.8  -0.05
 21  7030.    0. -7067.   -2.    0.    2.   28.   -1.    0.    0.    0. 155. -141.  -29.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7608.8  7608.8  -0.05
 22  7067.    0. -7105.   -2.    0.    2.   28.   -1.    0.    0.    0. 155. -141.  -29.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7645.7  7645.7  -0.05
 23  7105.    0. -7142.   -2.    0.    1.   28.   -1.    0.    0.    0. 154. -141.  -28.    0.    0. -369.    0.    0.    0. 394.    0.    0. -7682.6  7682.5  -0.04
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24	7142.	0.	-7179.	-1.	0.	1.	28.	-1.	0.	0.	0.	154.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7719.3	7719.3	-0.05
25	7179.	0.	-7216.	-1.	0.	1.	28.	-1.	0.	0.	0.	154.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7756.0	7755.9	-0.05
26	7216.	0.	-7252.	-1.	0.	1.	28.	-1.	0.	0.	0.	154.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7792.5	7792.5	-0.04
27	7252.	0.	-7289.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7829.0	7829.0	-0.05
28	7289.	0.	-7326.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7865.4	7865.4	-0.04
29	7326.	0.	-7362.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7901.8	7901.7	-0.05
30	7362.	0.	-7399.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7938.1	7938.0	-0.04
31	7399.	0.	-7435.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-7974.3	7974.2	-0.05
32	7435.	0.	-7471.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8010.5	8010.4	-0.05
33	7471.	0.	-7507.	-1.	0.	1.	28.	-1.	0.	0.	0.	153.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8046.6	8046.5	-0.04
34	7507.	0.	-7544.	-1.	0.	1.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8082.6	8082.6	-0.05
35	7544.	0.	-7580.	-1.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8118.6	8118.6	-0.04
36	7580.	0.	-7616.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8154.6	8154.5	-0.04
37	7616.	0.	-7652.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8190.5	8190.4	-0.04
38	7652.	0.	-7688.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8226.3	8226.3	-0.04
39	7688.	0.	-7723.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8262.0	8262.0	-0.04
40	7723.	0.	-7759.	0.	0.	0.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8297.7	8297.6	-0.04
41	7759.	0.	-7795.	0.	0.	-1.	28.	-1.	0.	0.	0.	152.	-141.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8333.4	8333.4	-0.04
42	7795.	0.	-7829.	1.	0.	-1.	28.	-1.	0.	0.	0.	152.	-142.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8369.4	8369.3	-0.04
43	7829.	0.	-7863.	1.	0.	-3.	28.	-1.	0.	0.	0.	152.	-142.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8405.4	8405.4	-0.04
44	7863.	0.	-7895.	3.	0.	-8.	28.	-1.	0.	0.	0.	153.	-143.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8441.8	8441.7	-0.04
45	7895.	0.	-7921.	8.	0.	-16.	28.	-1.	0.	0.	0.	154.	-144.	-27.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8478.6	8478.6	-0.04
46	7921.	0.	-7937.	16.	0.	-34.	28.	-1.	0.	0.	0.	157.	-147.	-28.	0.	0.	-369.	0.	0.	0.	394.	0.	0.	-8516.6	8516.5	-0.04
47	7937.	0.	-7702.	34.	0.	-32.	42.	-240.	0.	0.	0.	111.	-106.	-20.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-8389.1	8389.1	-0.03
48	7702.	0.	-7463.	32.	0.	-33.	42.	-238.	0.	0.	0.	116.	-112.	-21.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-8157.1	8157.1	-0.03
49	7463.	0.	-7223.	33.	0.	-35.	42.	-237.	0.	0.	0.	122.	-119.	-22.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7924.8	7924.8	-0.03
50	7223.	0.	-6984.	35.	0.	-36.	42.	-235.	0.	0.	0.	128.	-126.	-22.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7692.6	7692.5	-0.03
51	6984.	0.	-6746.	36.	0.	-37.	42.	-233.	0.	0.	0.	134.	-132.	-23.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7460.9	7460.9	-0.03
52	6746.	0.	-6509.	37.	0.	-38.	42.	-231.	0.	0.	0.	140.	-139.	-24.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7230.2	7230.1	-0.03
53	6509.	0.	-6273.	38.	0.	-39.	42.	-229.	0.	0.	0.	147.	-145.	-25.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-7000.7	7000.7	-0.03
54	6273.	0.	-6040.	39.	0.	-40.	42.	-227.	0.	0.	0.	153.	-151.	-25.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6772.9	6772.9	-0.03
55	6040.	0.	-5809.	40.	0.	-41.	42.	-224.	0.	0.	0.	160.	-158.	-26.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6547.0	6547.0	-0.03
56	5809.	0.	-5580.	41.	0.	-41.	42.	-222.	0.	0.	0.	167.	-164.	-27.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6323.3	6323.3	-0.03
57	5580.	0.	-5354.	41.	0.	-41.	42.	-220.	0.	0.	0.	174.	-170.	-27.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-6102.0	6102.0	-0.03
58	5354.	0.	-5131.	41.	0.	-42.	42.	-218.	0.	0.	0.	181.	-176.	-28.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5883.4	5883.4	-0.03
59	5131.	0.	-4911.	42.	0.	-42.	42.	-215.	0.	0.	0.	188.	-181.	-28.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5667.7	5667.7	-0.03

DISSOLVED OXYGEN LOADING FOR REACH 1: Lake de Cade

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
60	4911.	0.	-4694.	42.	0.	-42.	42.	-213.	0.	0.	0.	195.	-187.	-29.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5455.0	5454.9	-0.03
61	4694.	0.	-4480.	42.	0.	-42.	42.	-211.	0.	0.	0.	202.	-193.	-29.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5245.4	5245.4	-0.02
62	4480.	0.	-4270.	42.	0.	-42.	42.	-209.	0.	0.	0.	210.	-198.	-30.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-5039.2	5039.1	-0.02
63	4270.	0.	-4064.	42.	0.	-42.	42.	-206.	0.	0.	0.	217.	-204.	-30.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-4836.3	4836.3	-0.02
64	4064.	0.	-3862.	42.	0.	-41.	42.	-204.	0.	0.	0.	224.	-209.	-31.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-4637.0	4637.0	-0.02
65	3862.	0.	-3663.	41.	0.	-41.	42.	-202.	0.	0.	0.	231.	-214.	-31.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-4441.2	4441.2	-0.02
66	3663.	0.	-3468.	41.	0.	-41.	42.	-200.	0.	0.	0.	238.	-220.	-31.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-4249.0	4249.0	-0.02
67	3468.	0.	-3277.	41.	0.	-40.	42.	-198.	0.	0.	0.	245.	-225.	-32.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-4060.5	4060.5	-0.01
68	3277.	0.	-3089.	40.	0.	-39.	42.	-195.	0.	0.	0.	252.	-229.	-32.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-3875.6	3875.6	-0.01
69	3089.	0.	-2906.	39.	0.	-39.	42.	-193.	0.	0.	0.	258.	-234.	-32.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-3694.4	3694.4	-0.01
70	2906.	0.	-2727.	39.	0.	-38.	42.	-191.	0.	0.	0.	265.	-239.	-33.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-3516.8	3516.7	-0.01

71	2727.	0.	-2551.	38.	0.	-36.	42.	-189.	0.	0.	0.	271.	-243.	-33.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-3342.7	3342.7	-0.01
72	2551.	0.	-2380.	36.	0.	-35.	42.	-187.	0.	0.	0.	277.	-248.	-33.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-3172.1	3172.1	0.00
73	2380.	0.	-2212.	35.	0.	-32.	42.	-185.	0.	0.	0.	283.	-252.	-33.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-3004.7	3004.7	0.00
74	2212.	0.	-2049.	32.	0.	-29.	42.	-184.	0.	0.	0.	289.	-256.	-33.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-2840.5	2840.5	0.00
75	2049.	0.	-1890.	29.	0.	-24.	42.	-182.	0.	0.	0.	294.	-259.	-34.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-2679.0	2679.0	0.00
76	1890.	0.	-1737.	24.	0.	-17.	42.	-181.	0.	0.	0.	298.	-261.	-34.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-2519.8	2519.8	0.01
77	1737.	0.	-1588.	17.	0.	-8.	42.	-180.	0.	0.	0.	301.	-263.	-34.	0.	0.	-290.	0.	0.	0.	266.	0.	0.	-2362.1	2362.1	0.01
78	1588.	0.	-1582.	8.	0.	-1.	1.	0.	0.	0.	0.	8.	-15.	-1.	0.	0.	-13.	0.	0.	0.	7.	0.	0.	-1611.2	1611.2	0.00
79	1582.	0.	-1569.	1.	0.	-1.	1.	0.	0.	0.	0.	8.	-15.	-1.	0.	0.	-13.	0.	0.	0.	7.	0.	0.	-1598.5	1598.5	0.00
80	1569.	0.	-1557.	1.	0.	-1.	1.	0.	0.	0.	0.	8.	-15.	-1.	0.	0.	-13.	0.	0.	0.	7.	0.	0.	-1586.2	1586.2	0.00
81	1557.	0.	-1545.	1.	0.	-1.	1.	0.	0.	0.	0.	8.	-15.	-1.	0.	0.	-13.	0.	0.	0.	8.	0.	0.	-1574.3	1574.3	0.00
82	1545.	0.	-1534.	1.	0.	0.	1.	0.	0.	0.	0.	8.	-15.	-1.	0.	0.	-13.	0.	0.	0.	8.	0.	0.	-1562.9	1562.9	0.00
83	1534.	0.	-1523.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-15.	-1.	0.	0.	-13.	0.	0.	0.	8.	0.	0.	-1551.9	1551.9	0.00
84	1523.	0.	-1512.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	8.	0.	0.	-1541.2	1541.2	0.00
85	1512.	0.	-1502.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	9.	0.	0.	-1531.0	1531.1	0.00
86	1502.	0.	-1492.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	9.	0.	0.	-1521.3	1521.3	0.00
87	1492.	0.	-1483.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	9.	0.	0.	-1511.9	1511.9	0.00
88	1483.	0.	-1474.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	9.	0.	0.	-1502.9	1502.9	0.00
89	1474.	0.	-1466.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	10.	0.	0.	-1494.3	1494.3	0.00
90	1466.	0.	-1457.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	10.	0.	0.	-1486.0	1486.0	0.00
91	1457.	0.	-1450.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	10.	0.	0.	-1478.2	1478.2	0.00
92	1450.	0.	-1442.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	11.	0.	0.	-1470.8	1470.8	0.00
93	1442.	0.	-1435.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	11.	0.	0.	-1463.7	1463.7	0.00
94	1435.	0.	-1429.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	11.	0.	0.	-1457.0	1457.0	0.00
95	1429.	0.	-1422.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-15.	-1.	0.	0.	-13.	0.	0.	0.	11.	0.	0.	-1450.7	1450.7	0.00
96	1422.	0.	-1416.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-13.	0.	0.	0.	12.	0.	0.	-1444.7	1444.7	0.00
97	1416.	0.	-1411.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-13.	0.	0.	0.	12.	0.	0.	-1439.1	1439.1	0.00
98	1411.	0.	-1406.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-13.	0.	0.	0.	12.	0.	0.	-1433.9	1433.9	0.00
99	1406.	0.	-1401.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-13.	0.	0.	0.	12.	0.	0.	-1429.0	1429.0	0.00
100	1401.	0.	-1396.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-13.	0.	0.	0.	13.	0.	0.	-1424.5	1424.5	0.00
101	1396.	0.	-1392.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-13.	0.	0.	0.	13.	0.	0.	-1420.3	1420.3	0.00
102	1392.	0.	-1388.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	13.	0.	0.	-1416.4	1416.4	0.00
103	1388.	0.	-1385.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	14.	0.	0.	-1412.9	1412.9	0.00
104	1385.	0.	-1382.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	14.	0.	0.	-1409.8	1409.8	0.00
105	1382.	0.	-1379.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	14.	0.	0.	-1407.0	1407.0	0.00
106	1379.	0.	-1377.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	14.	0.	0.	-1404.5	1404.5	0.00
107	1377.	0.	-1374.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	15.	0.	0.	-1402.3	1402.3	0.00
108	1374.	0.	-1373.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	15.	0.	0.	-1400.5	1400.5	0.00
109	1373.	0.	-1371.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	15.	0.	0.	-1399.0	1399.0	0.00
110	1371.	0.	-1370.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	15.	0.	0.	-1397.8	1397.8	0.00
111	1370.	0.	-1369.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	16.	0.	0.	-1396.9	1396.9	0.00
112	1369.	0.	-1369.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	16.	0.	0.	-1396.3	1396.3	0.00
113	1369.	0.	-1368.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	16.	0.	0.	-1396.1	1396.1	0.00
114	1368.	0.	-1369.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	17.	0.	0.	-1396.1	1396.1	0.00
115	1369.	0.	-1369.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	17.	0.	0.	-1396.5	1396.5	0.00
116	1369.	0.	-1370.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-1.	0.	0.	-13.	0.	0.	0.	17.	0.	0.	-1397.2	1397.2	0.00
117	1370.	0.	-1373.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1383.0	1383.0	0.00
118	1373.	0.	-1376.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	0.	7.	0.	0.	-1386.2	1386.2	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Lake de Cade

IOR	UPMN	UPTR	LOWR	UPMN	UPTR	LOWR	INCR	INCR	NONP	WSLD	WITH	REAE	BOD1	NH3-N	ORG-N	NCM	SOD	SOD	SOD	SOD	ALG	ALG	MAC	TOT	TOT

	ADV	ADV	ADV	DISP	DISP	DISP	IN	OUT	IN	IN	OUT	IN	DECA	DECA	DECA	DECA	BKGD	BOD1	ALG	NCM	PHOT	RESP	PHOT	OUT	IN
119	1376.	0.	-1379.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1389.4	1389.4	0.00		
120	1379.	0.	-1383.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1392.6	1392.6	0.00		
121	1383.	0.	-1386.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1395.9	1395.9	0.00		
122	1386.	0.	-1389.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1399.1	1399.1	0.00		
123	1389.	0.	-1392.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1402.3	1402.3	0.00		
124	1392.	0.	-1396.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1405.5	1405.5	0.00		
125	1396.	0.	-1399.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1408.7	1408.7	0.00		
126	1399.	0.	-1402.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1411.9	1411.9	0.00		
127	1402.	0.	-1405.	0.	0.	0.	0.	0.	0.	6.	-6.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1415.1	1415.1	0.00		
128	1405.	0.	-1408.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1418.3	1418.3	0.00		
129	1408.	0.	-1412.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1421.5	1421.5	0.00		
130	1412.	0.	-1415.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1424.7	1424.7	0.00		
131	1415.	0.	-1418.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1427.8	1427.8	0.00		
132	1418.	0.	-1421.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1431.0	1431.0	0.00		
133	1421.	0.	-1424.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1434.2	1434.2	0.00		
134	1424.	0.	-1428.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1437.3	1437.3	0.00		
135	1428.	0.	-1431.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1440.5	1440.5	0.00		
136	1431.	0.	-1434.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1443.6	1443.6	0.00		
137	1434.	0.	-1437.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1446.8	1446.8	0.00		
138	1437.	0.	-1440.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1449.9	1449.9	0.00		
139	1440.	0.	-1443.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1453.1	1453.1	0.00		
140	1443.	0.	-1446.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1456.2	1456.2	0.00		
141	1446.	0.	-1450.	0.	0.	0.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1459.3	1459.3	0.00		
142	1450.	0.	-1454.	0.	0.	2.	0.	0.	0.	6.	-5.	0.	0.	0.	-4.	0.	0.	7.	0.	0.	-1464.1	1464.1	0.00		
172	1454.	285.	-1770.	-2.	32.	0.	0.	0.	0.	0.	12.	-23.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1815.4	1815.4	0.00	
173	1770.	0.	-1771.	0.	0.	0.	0.	0.	0.	0.	12.	-23.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1813.9	1813.9	0.00	
174	1771.	0.	-1771.	0.	0.	0.	0.	0.	0.	0.	12.	-23.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1814.3	1814.3	0.00	
175	1771.	0.	-1772.	0.	0.	0.	0.	0.	0.	0.	12.	-23.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1814.9	1814.9	0.00	
176	1772.	0.	-1773.	0.	0.	0.	0.	0.	0.	0.	12.	-23.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1815.8	1815.8	0.00	
177	1773.	0.	-1775.	0.	0.	0.	0.	0.	0.	0.	12.	-22.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1816.8	1816.8	0.00	
178	1775.	0.	-1776.	0.	0.	0.	0.	0.	0.	0.	12.	-22.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1818.1	1818.1	0.00	
179	1776.	0.	-1778.	0.	0.	0.	0.	0.	0.	0.	12.	-22.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1819.5	1819.5	0.00	
180	1778.	0.	-1780.	0.	0.	0.	0.	0.	0.	0.	12.	-22.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1821.2	1821.2	0.00	
181	1780.	0.	-1782.	0.	0.	0.	0.	0.	0.	0.	12.	-21.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1823.0	1823.0	0.00	
182	1782.	0.	-1784.	0.	0.	0.	0.	0.	0.	0.	12.	-21.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1825.1	1825.1	0.00	
183	1784.	0.	-1786.	0.	0.	0.	0.	0.	0.	0.	12.	-21.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1827.3	1827.3	0.00	
184	1786.	0.	-1789.	0.	0.	0.	0.	0.	0.	0.	12.	-21.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1829.7	1829.7	0.00	
185	1789.	0.	-1792.	0.	0.	0.	0.	0.	0.	0.	12.	-21.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1832.2	1832.2	0.00	
186	1792.	0.	-1795.	0.	0.	0.	0.	0.	0.	0.	12.	-20.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1835.0	1835.0	0.00	
187	1795.	0.	-1798.	0.	0.	0.	0.	0.	0.	0.	12.	-20.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1837.9	1837.9	0.00	
188	1798.	0.	-1801.	0.	0.	0.	0.	0.	0.	0.	12.	-20.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1841.0	1841.0	0.00	
189	1801.	0.	-1804.	0.	0.	0.	0.	0.	0.	0.	12.	-20.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1844.2	1844.2	0.00	
190	1804.	0.	-1808.	0.	0.	0.	0.	0.	0.	0.	12.	-20.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1847.7	1847.7	0.00	
191	1808.	0.	-1812.	0.	0.	0.	0.	0.	0.	0.	12.	-20.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1851.2	1851.2	0.00	
192	1812.	0.	-1816.	0.	0.	0.	0.	0.	0.	0.	12.	-19.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1854.9	1854.9	0.00	
193	1816.	0.	-1820.	0.	0.	0.	0.	0.	0.	0.	12.	-19.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1858.8	1858.8	0.00	
194	1820.	0.	-1824.	0.	0.	0.	0.	0.	0.	0.	11.	-19.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1862.8	1862.8	0.00	
195	1824.	0.	-1828.	0.	0.	0.	0.	0.	0.	0.	11.	-19.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1866.9	1866.9	0.00	
196	1828.	0.	-1833.	0.	0.	0.	0.	0.	0.	0.	11.	-19.	-1.	0.	0.	-19.	0.	0.	31.	0.	0.	-1871.2	1871.2	0.00	

197	1833.	0.	-1837.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-18.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1875.6	1875.6	0.00
198	1837.	0.	-1842.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-18.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1880.1	1880.1	0.00
199	1842.	0.	-1847.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-18.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1884.8	1884.8	0.00
200	1847.	0.	-1852.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-18.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1889.6	1889.6	0.00
201	1852.	0.	-1857.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-18.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1894.5	1894.5	0.00
202	1857.	0.	-1862.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-18.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1899.5	1899.5	0.00
203	1862.	0.	-1867.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1904.6	1904.6	0.00
204	1867.	0.	-1873.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1909.9	1909.9	0.00
205	1873.	0.	-1878.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1915.2	1915.2	0.00
206	1878.	0.	-1884.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1920.7	1920.7	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Lake de Cade

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WSLD OUT	WITH IN	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT OUT	TOT IN
207	1884.	0.	-1890.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1926.2	1926.2	0.00
208	1890.	0.	-1896.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1931.9	1931.9	0.00
209	1896.	0.	-1901.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-16.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1937.7	1937.7	0.00
210	1901.	0.	-1907.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-16.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1943.5	1943.5	0.00
211	1907.	0.	-1914.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-16.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1949.5	1949.5	0.00
212	1914.	0.	-1920.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-16.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1955.5	1955.5	0.00
213	1920.	0.	-1926.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-16.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1961.6	1961.6	0.00
214	1926.	0.	-1932.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-16.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1967.8	1967.8	0.00
215	1932.	0.	-1939.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-15.	-1.	0.	0.	-19.	0.	0.	0.	31.	0.	0.	-1974.4	1974.4	0.00
216	1939.	0.	-1953.	0.	0.	1.	0.	0.	0.	0.	0.	21.	-36.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2036.2	2036.2	0.00
217	1953.	0.	-1967.	-1.	0.	1.	0.	0.	0.	0.	0.	21.	-35.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2049.4	2049.4	0.00
218	1967.	0.	-1981.	-1.	0.	1.	0.	0.	0.	0.	0.	21.	-35.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2063.0	2063.0	0.00
219	1981.	0.	-1996.	-1.	0.	1.	0.	0.	0.	0.	0.	20.	-34.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2077.0	2077.0	0.00
220	1996.	0.	-2011.	-1.	0.	1.	0.	0.	0.	0.	0.	20.	-33.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2091.4	2091.4	0.00
221	2011.	0.	-2026.	-1.	0.	1.	0.	0.	0.	0.	0.	19.	-32.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2106.3	2106.2	0.00
222	2026.	0.	-2042.	-1.	0.	1.	0.	0.	0.	0.	0.	19.	-31.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2121.4	2121.4	0.00
223	2042.	0.	-2058.	-1.	0.	0.	0.	0.	0.	0.	0.	19.	-31.	-3.	0.	0.	-44.	0.	0.	0.	75.	0.	0.	-2136.6	2136.6	0.00
224	2058.	0.	-2066.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-8.	-1.	0.	0.	-12.	0.	0.	0.	22.	0.	0.	-2087.7	2087.7	0.00
225	2066.	0.	-2076.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-8.	-1.	0.	0.	-12.	0.	0.	0.	24.	0.	0.	-2097.4	2097.4	0.00
226	2076.	0.	-2088.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-8.	-1.	0.	0.	-12.	0.	0.	0.	26.	0.	0.	-2109.0	2109.0	0.00
227	2088.	0.	-2101.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-8.	-1.	0.	0.	-12.	0.	0.	0.	28.	0.	0.	-2122.2	2122.2	0.00
228	2101.	0.	-2116.	0.	0.	0.	0.	0.	0.	0.	0.	7.	-8.	-1.	0.	0.	-12.	0.	0.	0.	29.	0.	0.	-2137.1	2137.1	0.00
229	2116.	0.	-2133.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-8.	-1.	0.	0.	-12.	0.	0.	0.	31.	0.	0.	-2153.7	2153.7	0.00
230	2133.	0.	-2151.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-8.	-1.	0.	0.	-12.	0.	0.	0.	33.	0.	0.	-2171.9	2171.9	0.00
231	2151.	0.	-2171.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-8.	-1.	0.	0.	-12.	0.	0.	0.	35.	0.	0.	-2191.8	2191.8	0.00
232	2171.	0.	-2192.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-8.	-1.	0.	0.	-12.	0.	0.	0.	36.	0.	0.	-2213.3	2213.3	0.00
244	2192.	67.	-2282.	0.	13.	0.	0.	0.	0.	0.	0.	4.	-6.	0.	0.	0.	-8.	0.	0.	0.	20.	0.	0.	-2297.3	2297.3	0.00
245	2282.	0.	-2288.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-6.	0.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-2303.1	2303.1	0.00
246	2288.	0.	-2290.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-6.	-1.	0.	0.	-8.	0.	0.	0.	13.	0.	0.	-2305.0	2305.0	0.00
247	2290.	0.	-2287.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-6.	-1.	0.	0.	-8.	0.	0.	0.	8.	0.	0.	-2302.6	2302.6	0.00
248	2287.	0.	-2280.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-6.	-1.	0.	0.	-9.	0.	0.	0.	4.	0.	0.	-2295.9	2295.9	0.00
249	2280.	0.	-2271.	0.	0.	1.	0.	0.	0.	0.	0.	4.	-6.	-1.	0.	0.	-9.	0.	0.	0.	0.	0.	0.	-2286.2	2286.2	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Lake Theriot

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WSLD OUT	WITH IN	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT OUT	TOT IN
143	6.	0.	-17.	0.	0.	0.	9.	0.	0.	0.	0.	209.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1081.0	1080.9	-0.03
144	17.	0.	-29.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1092.8	1092.8	-0.03

145	29.	0.	-40.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1104.4	1104.3	-0.03
146	40.	0.	-52.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1115.9	1115.8	-0.03
147	52.	0.	-63.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1127.4	1127.4	-0.03
148	63.	0.	-75.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1138.9	1138.9	-0.03
149	75.	0.	-86.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1150.4	1150.4	-0.03
150	86.	0.	-98.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1161.9	1161.9	-0.03
151	98.	0.	-109.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1173.4	1173.4	-0.03
152	109.	0.	-121.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1184.9	1184.9	-0.03
153	121.	0.	-132.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1196.4	1196.4	-0.03
154	132.	0.	-144.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1207.9	1207.9	-0.03
155	144.	0.	-155.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1219.4	1219.4	-0.03
156	155.	0.	-167.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1230.9	1230.9	-0.03
157	167.	0.	-178.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1242.4	1242.4	-0.03
158	178.	0.	-190.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1253.9	1253.9	-0.03
159	190.	0.	-201.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1265.4	1265.4	-0.03
160	201.	0.	-213.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1276.9	1276.9	-0.03
161	213.	0.	-224.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1288.4	1288.4	-0.03
162	224.	0.	-236.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1300.0	1299.9	-0.03
163	236.	0.	-247.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1311.5	1311.4	-0.03
164	247.	0.	-259.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1323.0	1322.9	-0.03
165	259.	0.	-270.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-71.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1334.5	1334.4	-0.03
166	270.	0.	-282.	0.	0.	0.	9.	0.	0.	0.	0.	210.	-72.	-16.	0.	0.	-977.	0.	0.	0.	857.	0.	0.	-1346.3	1346.3	-0.03
167	282.	0.	-290.	0.	0.	1.	2.	0.	0.	0.	0.	1.	-3.	0.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-302.1	302.1	0.00
168	290.	0.	-297.	-1.	0.	1.	2.	0.	0.	0.	0.	1.	-3.	0.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-310.0	310.0	0.00
169	297.	0.	-304.	-1.	0.	0.	2.	0.	0.	0.	0.	1.	-4.	0.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-316.6	316.6	0.00
170	304.	0.	-307.	0.	0.	-4.	2.	0.	0.	0.	0.	1.	-4.	-1.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-323.0	323.0	0.00
171	307.	0.	-285.	4.	0.	-32.	2.	0.	0.	0.	0.	2.	-4.	-1.	0.	0.	-8.	0.	0.	0.	17.	0.	0.	-330.5	330.5	0.00

DISSOLVED OXYGEN LOADING FOR REACH 3: Lake Hache

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	NONP OUT	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
233	1.	0.	-8.	0.	0.	0.	4.	0.	0.	0.	0.	-139.	-32.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-574.3	574.3	-0.01
234	8.	0.	-15.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-581.6	581.6	-0.01
235	15.	0.	-23.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-589.0	589.0	-0.01
236	23.	0.	-30.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-596.4	596.4	-0.01
237	30.	0.	-38.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-603.7	603.7	-0.01
238	38.	0.	-45.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-611.1	611.1	-0.01
239	45.	0.	-52.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-618.5	618.5	-0.01
240	52.	0.	-60.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-625.8	625.8	-0.01
241	60.	0.	-67.	0.	0.	0.	4.	0.	0.	0.	0.	-140.	-30.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-633.2	633.2	-0.01
242	67.	0.	-74.	0.	0.	-6.	4.	0.	0.	0.	0.	-138.	-26.	-6.	0.	0.	-390.	0.	0.	0.	569.	0.	0.	-640.6	640.5	-0.02
243	74.	0.	-67.	6.	0.	-13.	6.	0.	0.	0.	0.	2.	-48.	-2.	0.	0.	-20.	0.	0.	0.	61.	0.	0.	-149.4	149.4	0.00

Lake de Cade Lake Theriot Lake Hache (subseg 120405 and 120406)

Calibration Simulation for Lake de Cade Theriot and Hache model

INPUT/OUTPUT LOADING SUMMARY

	FLOW	DO	BOD#1	BOD#2	ORG-N	NH3-N	NO3-N	PHOS	CHL A	NCM
	m³/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d		
HEADWATER FLOW	11.224	6304.1	2642.7	0.0	776.0	97.0	38.8	0.0	0.0	0.0
INCREMENTAL INFLOW	6.672	2882.4	21790.5	0.0	1185.7	576.5	23.1	0.0	0.0	0.0
INCREMENTAL OUTFLOW	-13.400	-6535.3	-6480.7	0.0	-1328.2	-106.3	0.0	0.0	0.0	0.0
WASTELOADS	0.000	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WITHDRAWLS	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-4.496	-2270.6	-1443.3	0.0	-502.4	-29.9	0.0	0.0	0.0	0.0

DISPERSION THRU LOWER BNDRY		1.4	5.3	0.0	-6.9	0.1	0.2	0.0	0.0	0.0
DISPERSION THRU HDWTR BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	0.0	0.0	0.0					0.0
NATURAL REAERATION		18551.3								
DAM REAERATION		0.0								
BACKGROUND SOD		-55273.7								
BOD#1 DECAY		-16515.0	-16515.0							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY			0.0							
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY				0.0						
ORG-N DECAY		0.0			-124.2	124.2				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-2868.6				-662.5	662.5			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		55720.3				0.0	-2786.0	0.0	0.0	
ALGAE RESPIRATION		0.0				0.0		0.0	0.0	
ALGAE SETTLING		0.0							0.0	
MACRO PHOTOSYNTHESIS		0.0				0.0	0.0	0.0		
NCM DECAY		0.0								0.0
NCM SETTLING		0.0								0.0
TOTAL INPUTS	17.896	83459.4	24439.0	0.0	1961.7	797.8	724.6	0.0	0.0	0.0
TOTAL OUTPUTS	-17.896	-83463.2	-24438.9	0.0	-1961.7	-798.7	-2786.0	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	-3.7	0.0	0.0	0.0	-0.9	-2061.5	0.0	0.0	0.0

.....EXECUTION COMPLETED

APPENDIX E:
PLOTS OF CALIBRATED AND OBSERVED WATER QUALITY

Figure E-1. Temperature modeling results for subsegment 120401 1
Figure E-2. Ammonia modeling results for subsegment 120401 2
Figure E-3. BOD modeling results for subsegment 120401 2
Figure E-4. DO modeling results for subsegment 120401 3
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Figure E-19. BOD modeling results for Lake de Cade in subsegment 120406 16
Figure E-20. DO modeling results for Lake de Cade in subsegment 120406 17

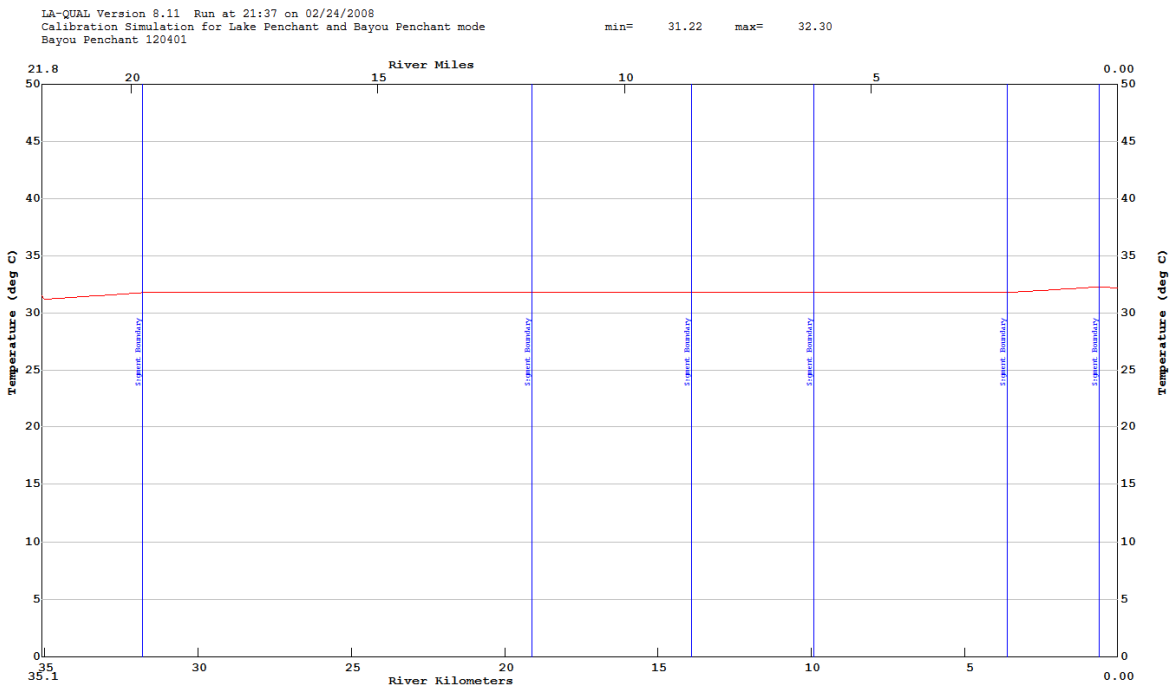

Figure E-1. Temperature modeling results for subsegment 120401.

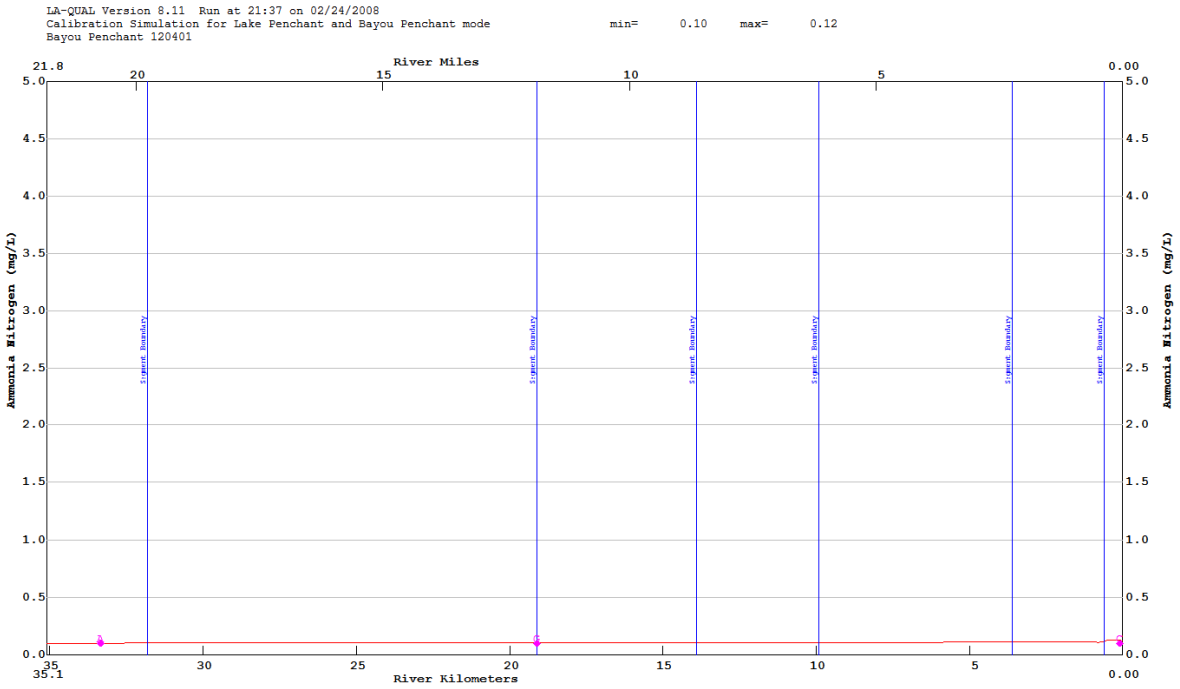

Figure E-2. Ammonia modeling results for subsegment 120401.

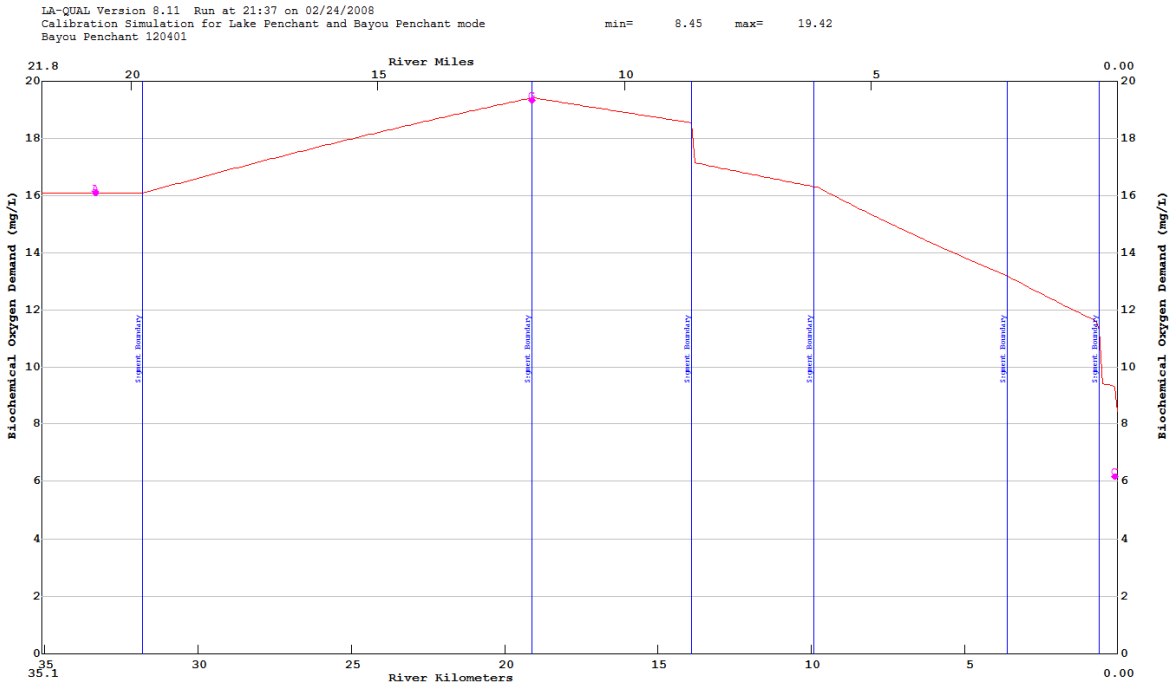

Figure E-3. BOD modeling results for subsegment 120401.

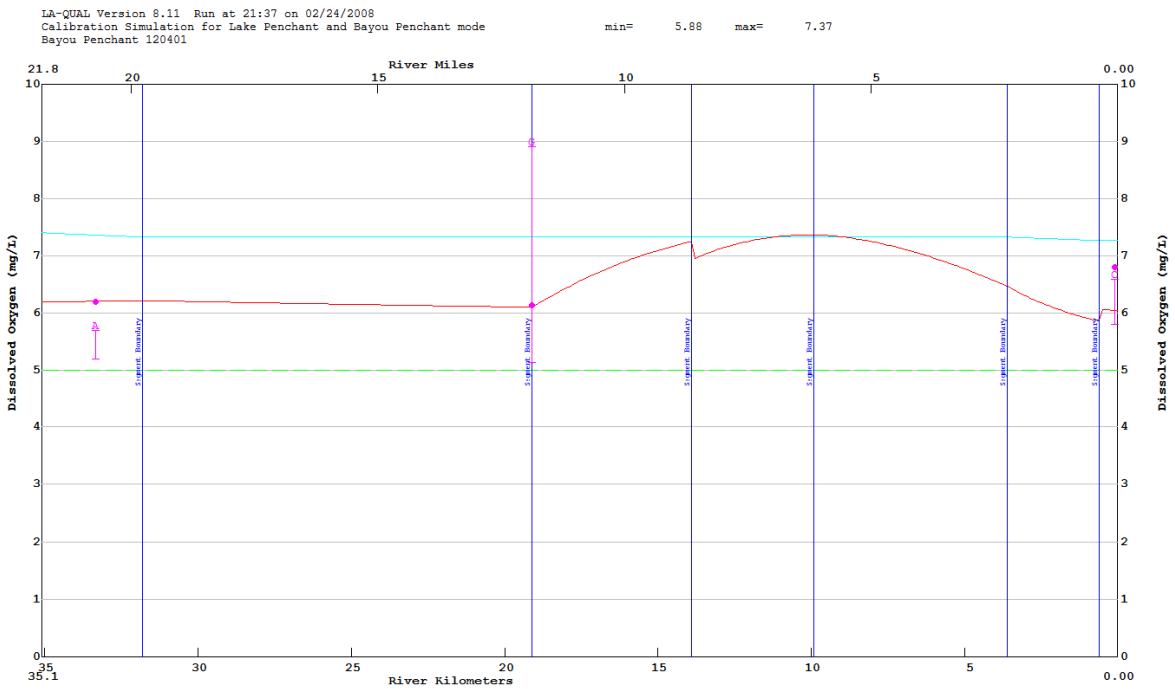

Figure E-4. DO modeling results for subsegment 120401.

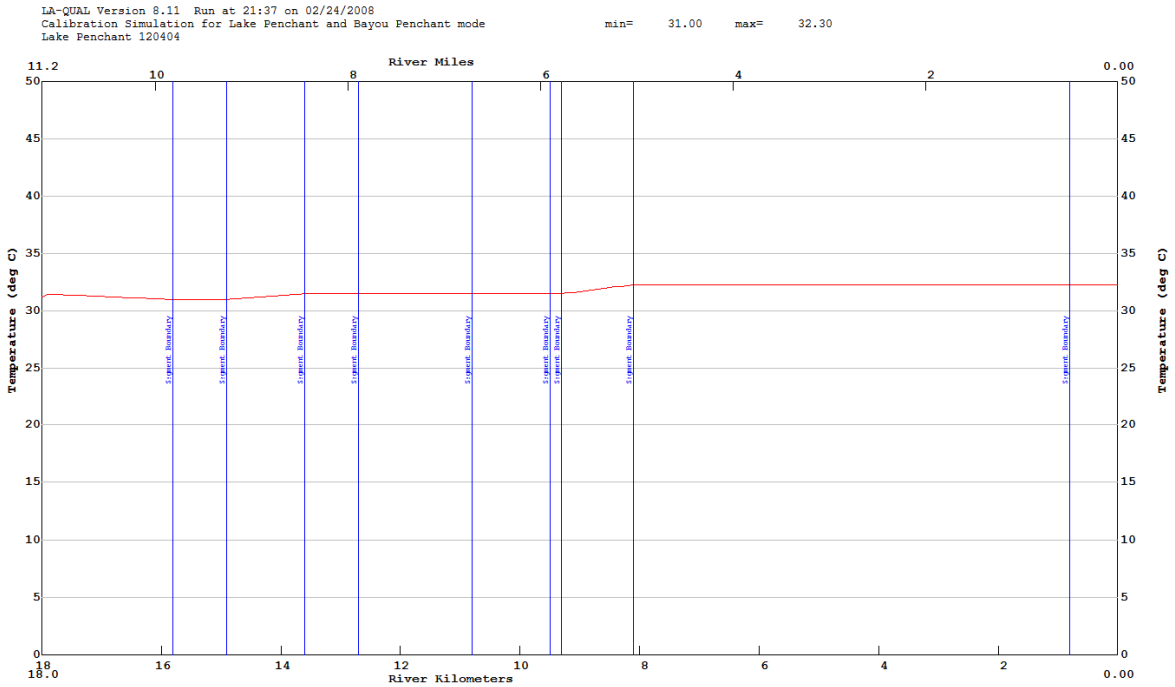

Figure E-5. Temperature modeling results for subsegment 120404.

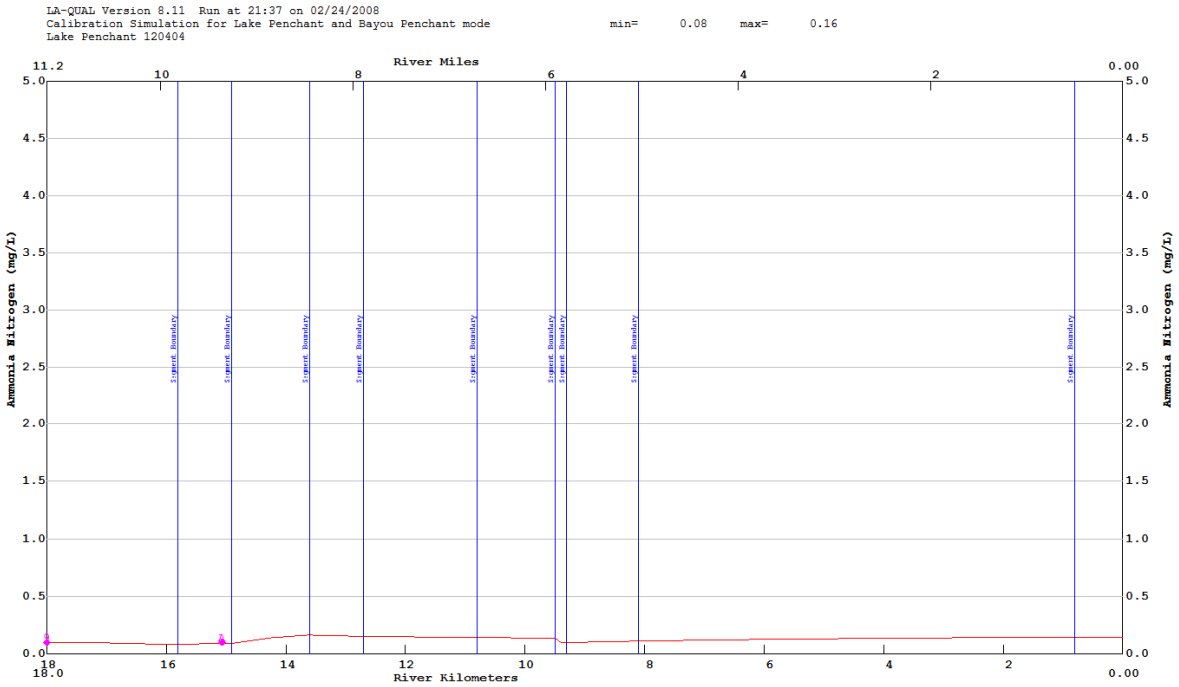

Figure E-6. Ammonia modeling results for subsegment 120404.

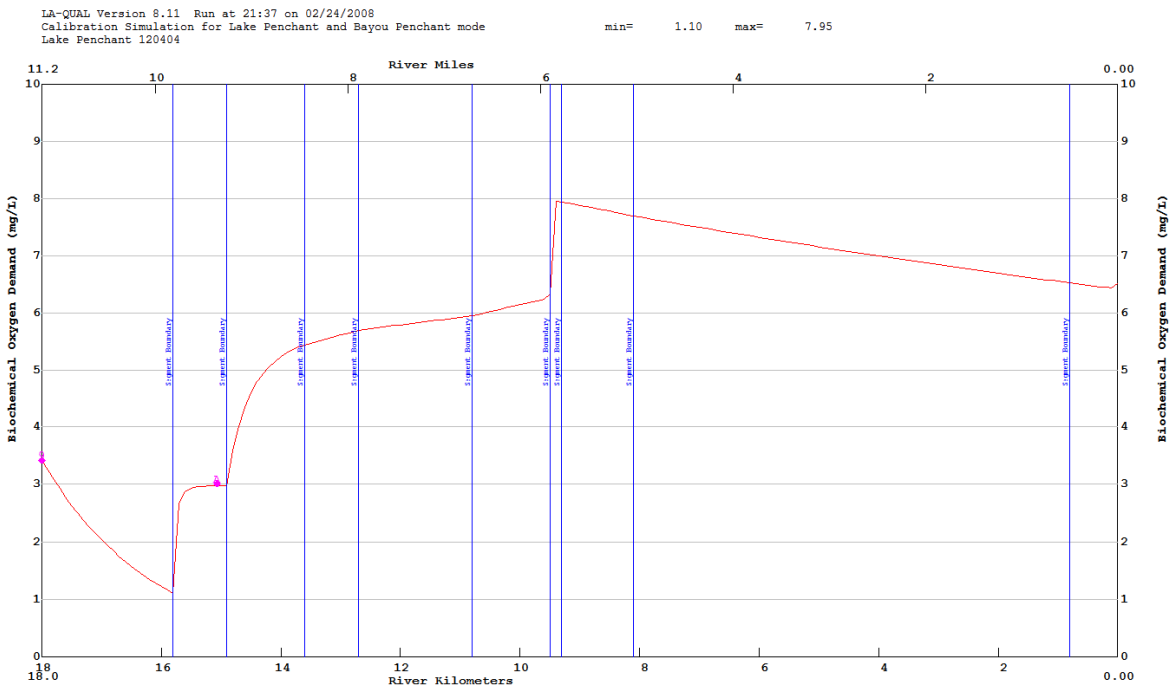

Figure E-7. BOD modeling results for subsegment 120404.

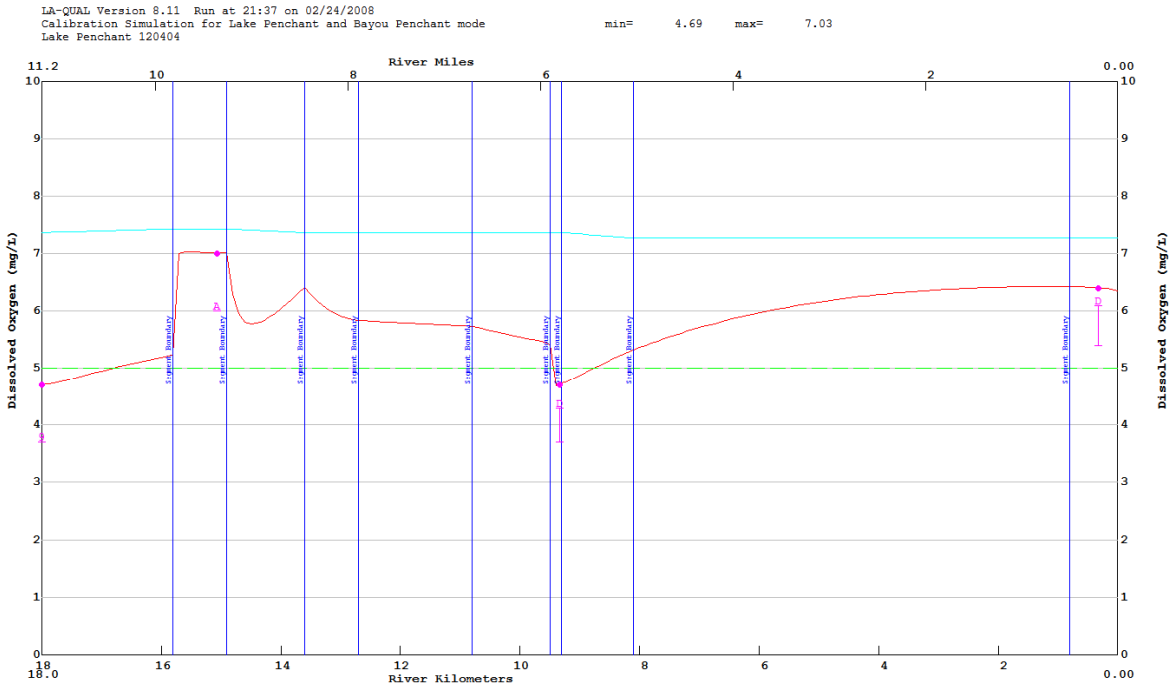

Figure E-8. DO modeling results for subsegment 120404.

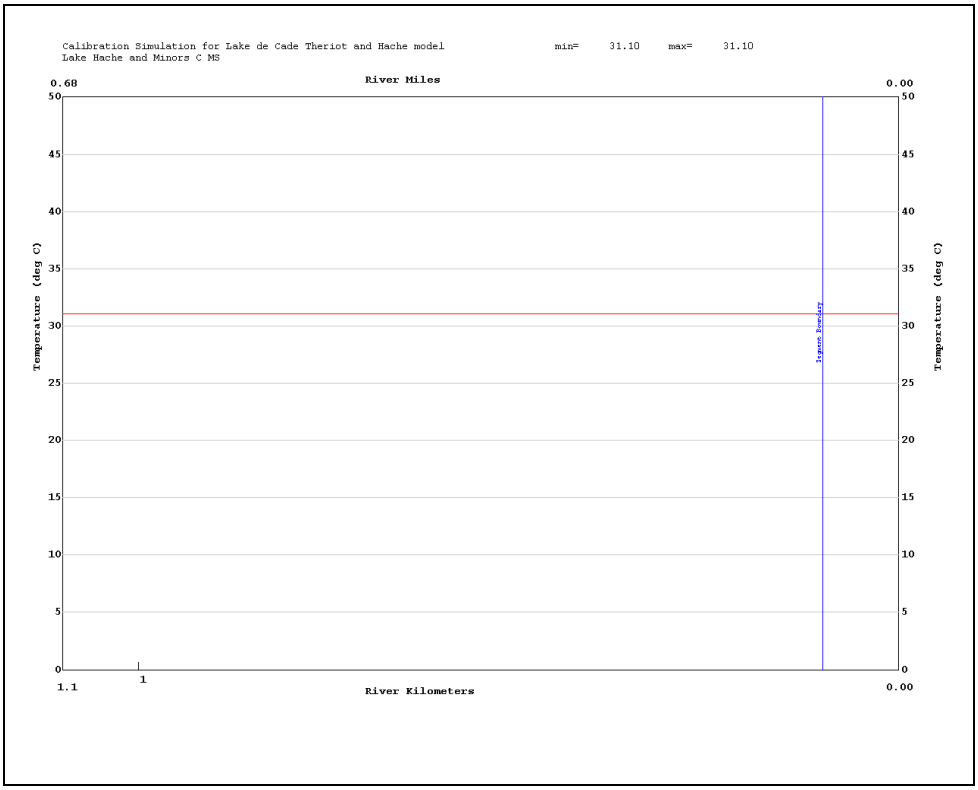

Figure E-9. Temperature modeling results for Lake Hatch in subsegment 120405.

Figure E-10. Ammonia modeling results for Lake Hatch in subsegment 120405.

Figure E-11. BOD modeling results for Lake Hatch in subsegment 120405.

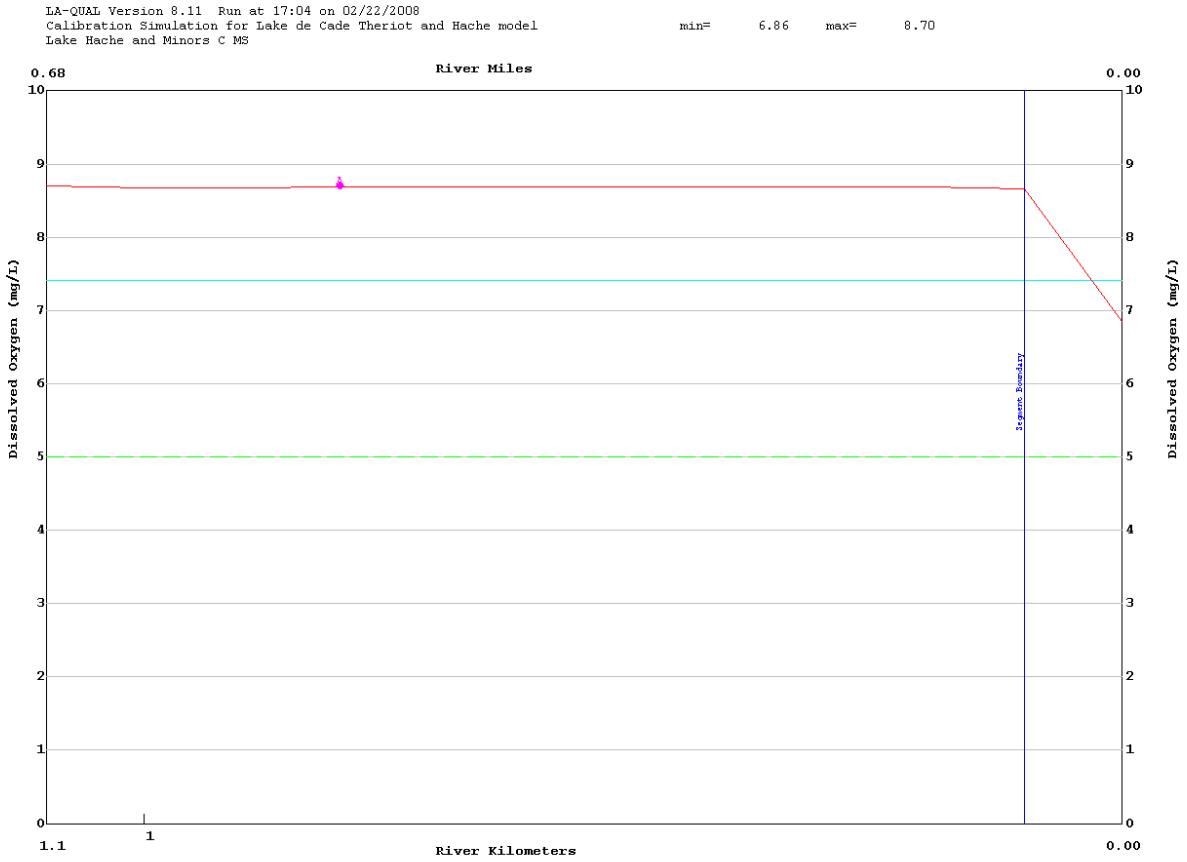

Figure E-12. DO modeling results for Lake Hatch in subsegment 120405.

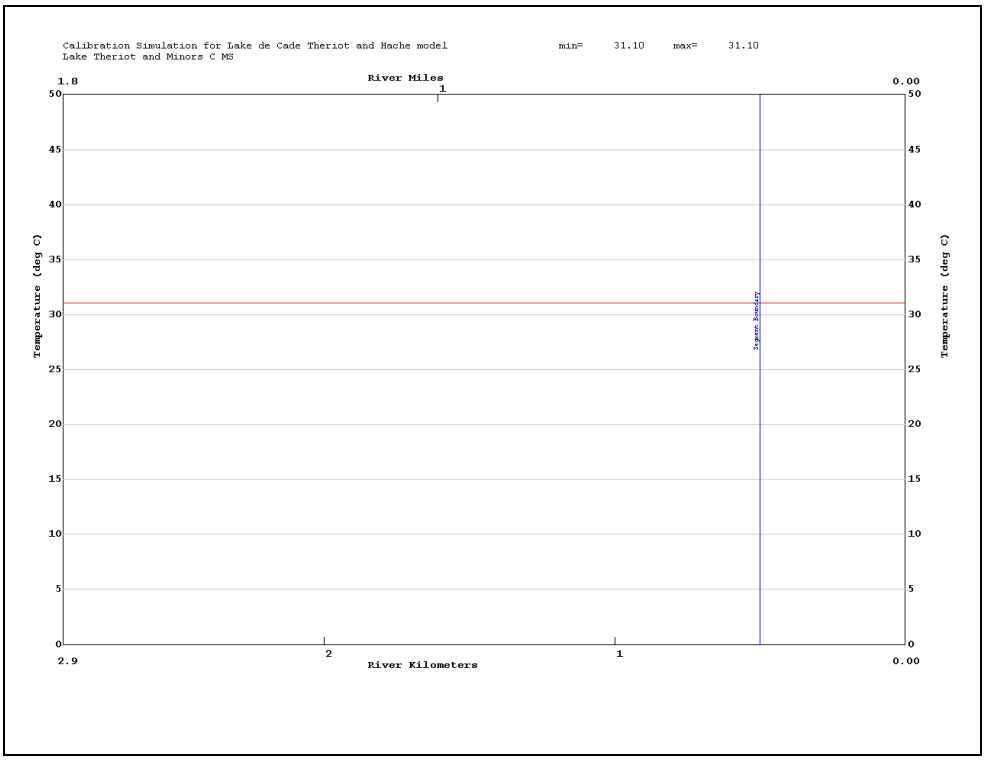

Figure E-13. Temperature modeling results for Lake Theriot in subsegment 120405.

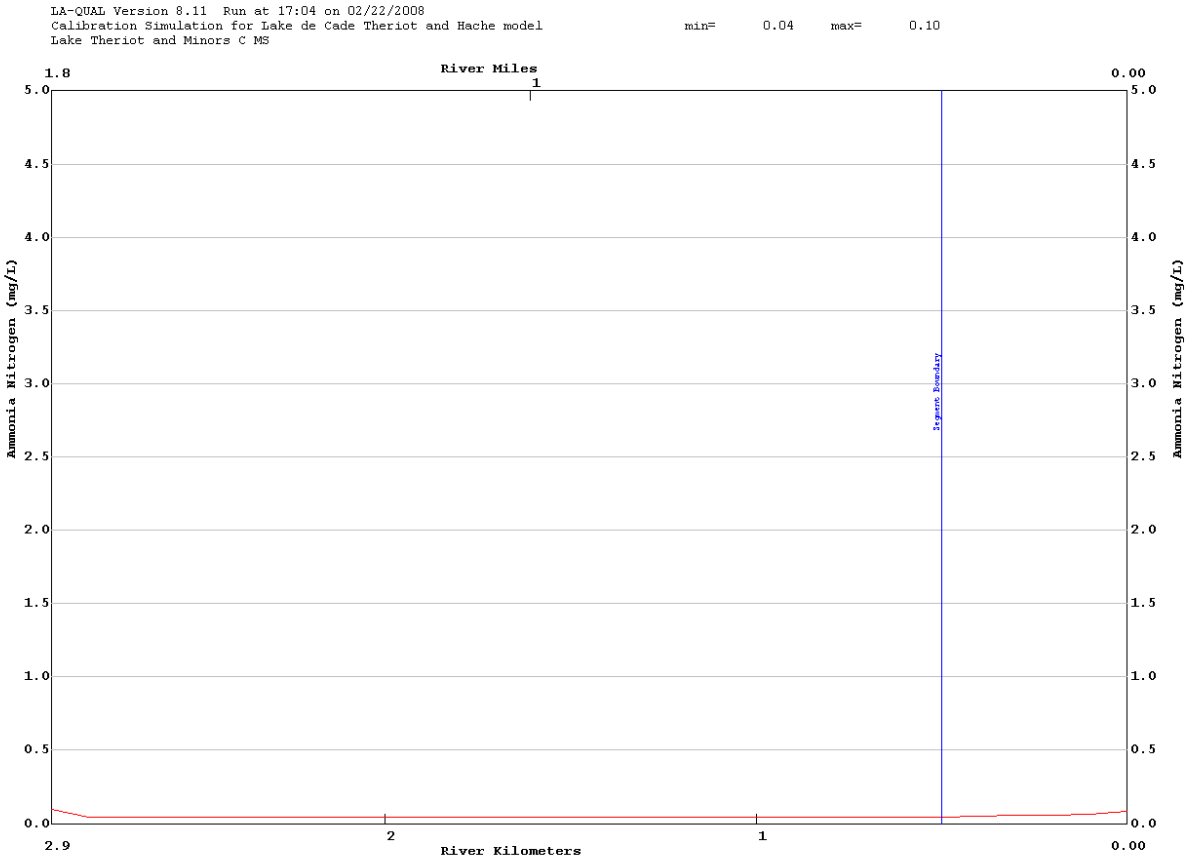

Figure E-14. Ammonia modeling results for Lake Theriot in subsegment 120405.

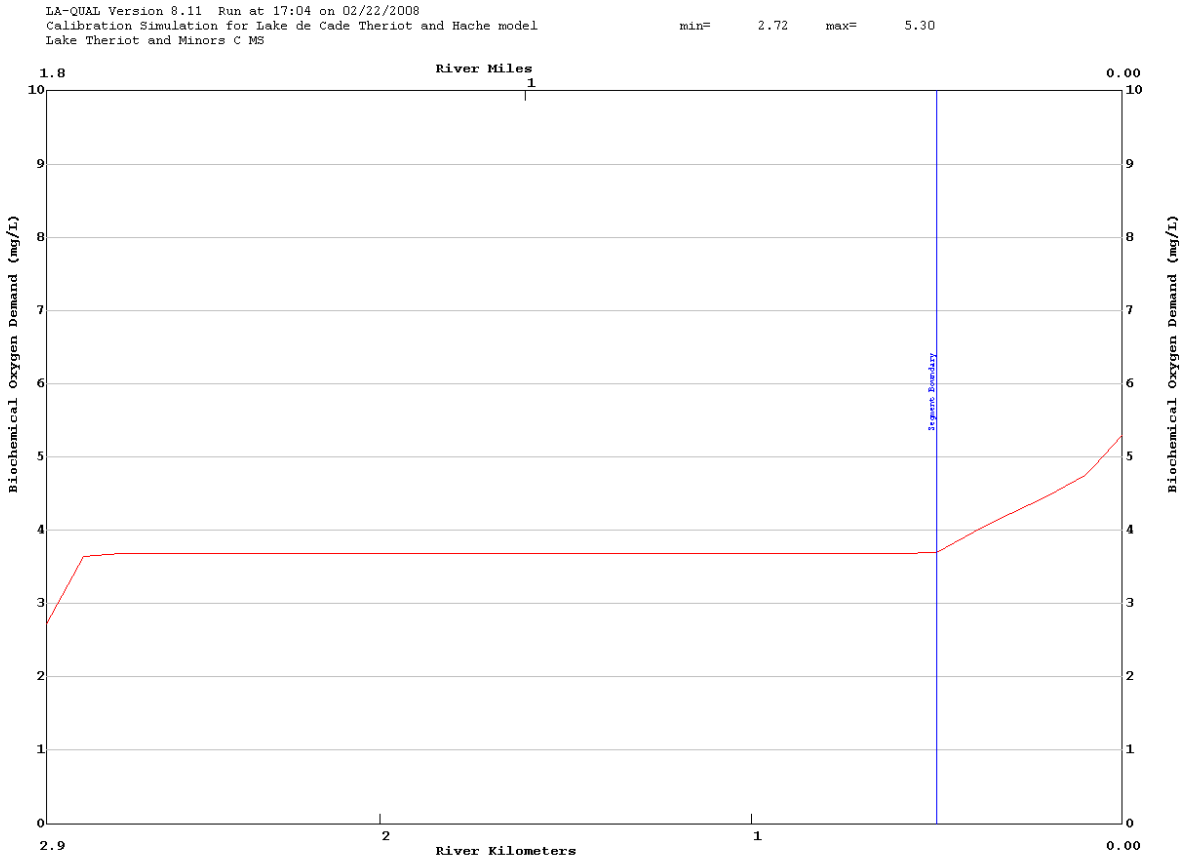

Figure E-15. BOD modeling results for Lake Theriot in subsegment 120405.

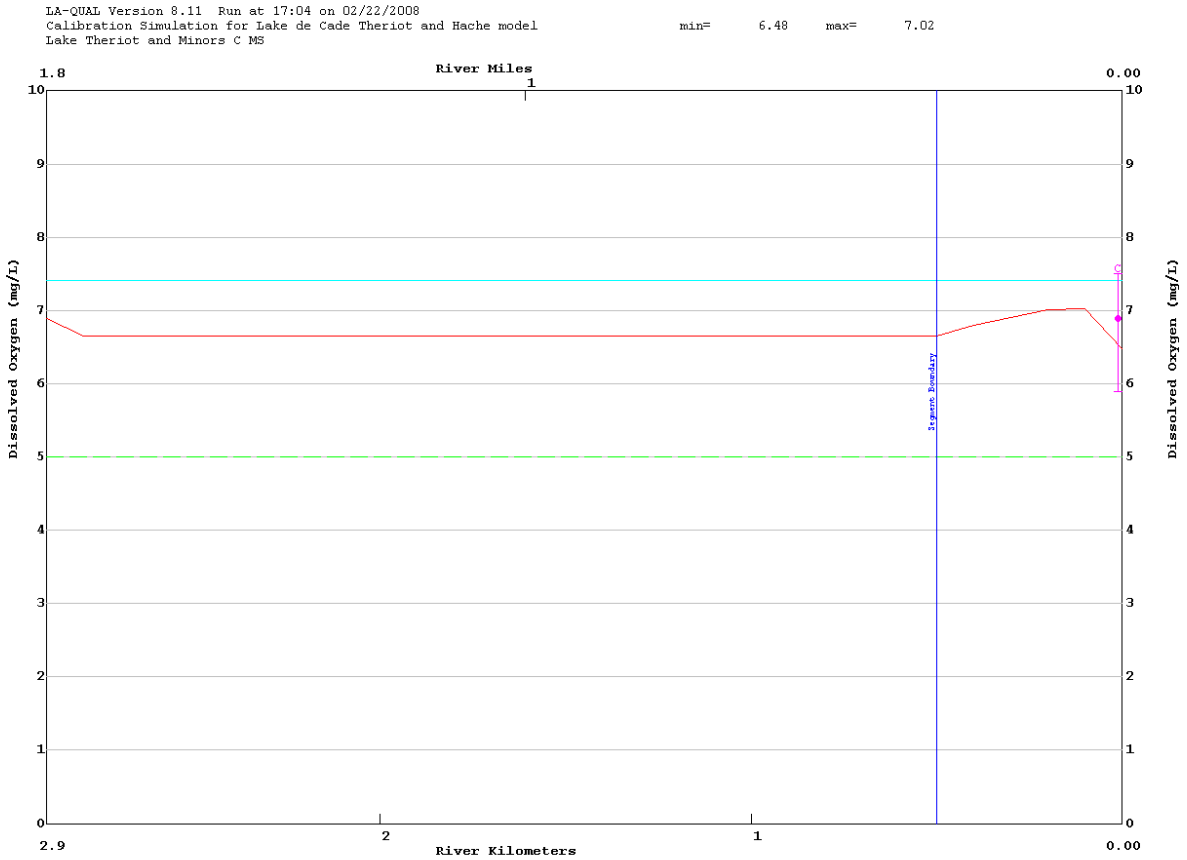

Figure E-16. DO modeling results for Lake Theriot in subsegment 120405.

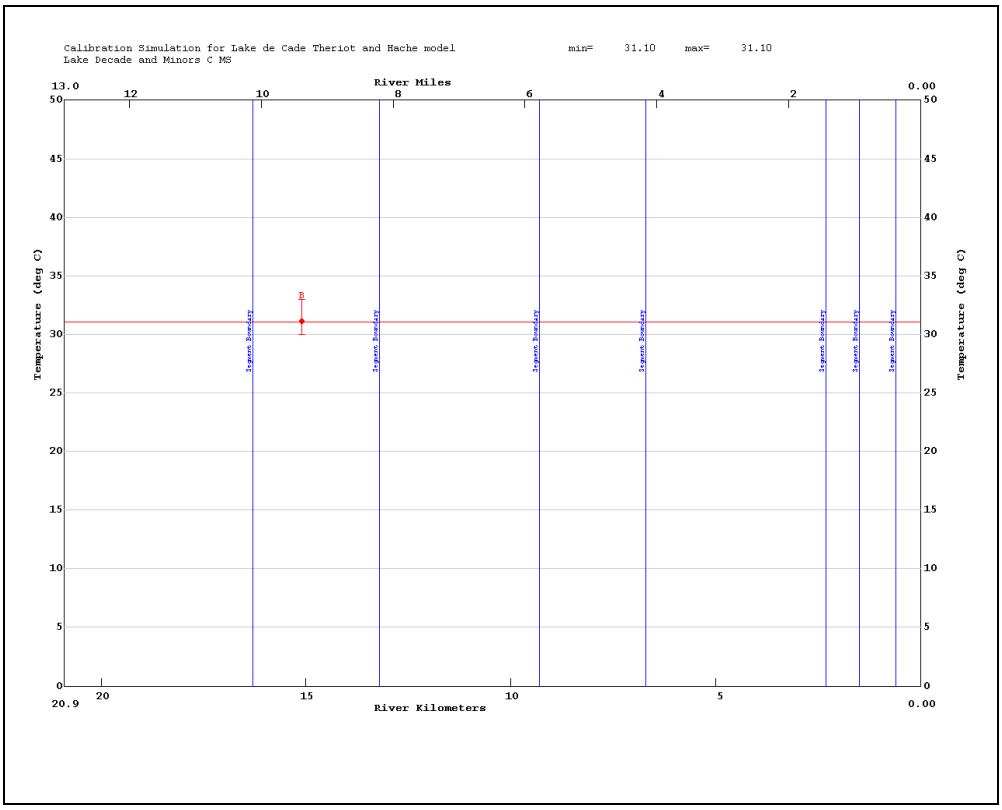

Figure E-17. Temperature modeling results for Lake de Cade in subsegment 120406.

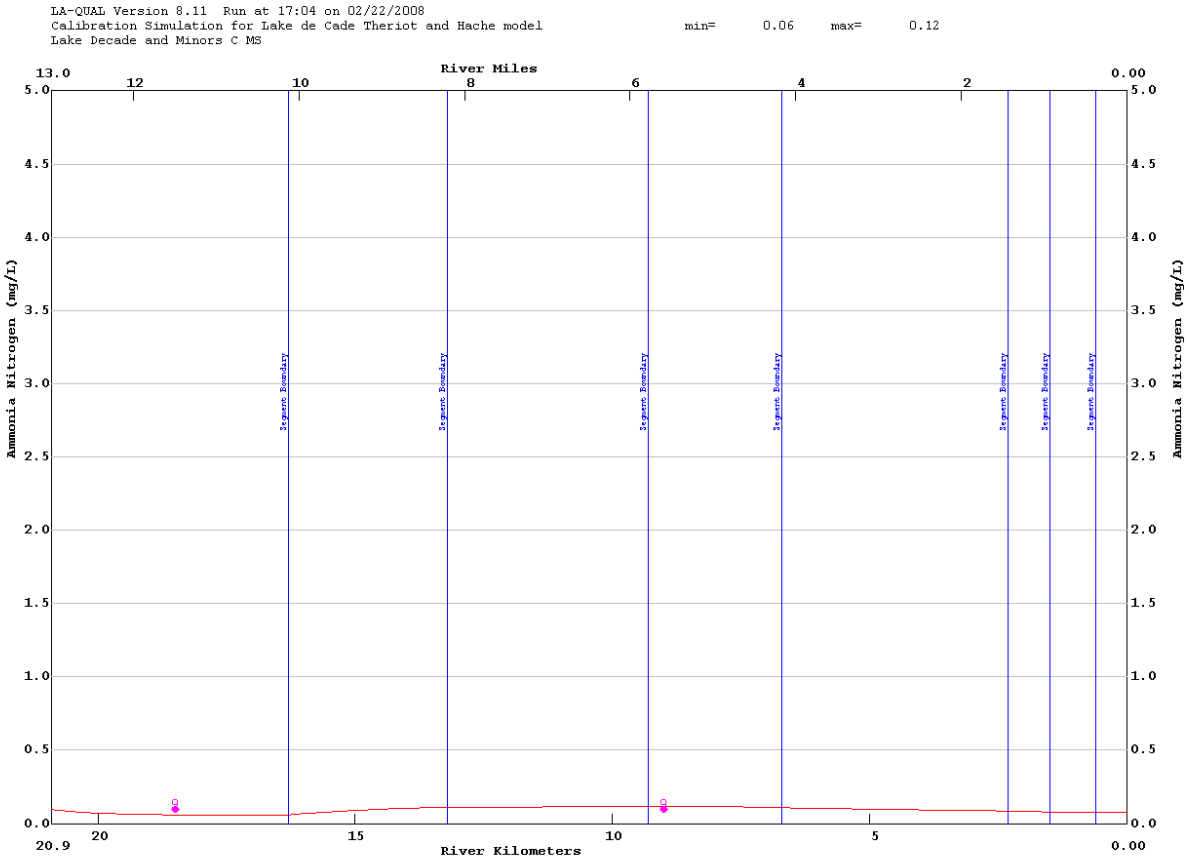

Figure E-18. Ammonia modeling results for Lake de Cade in subsegment 120406.

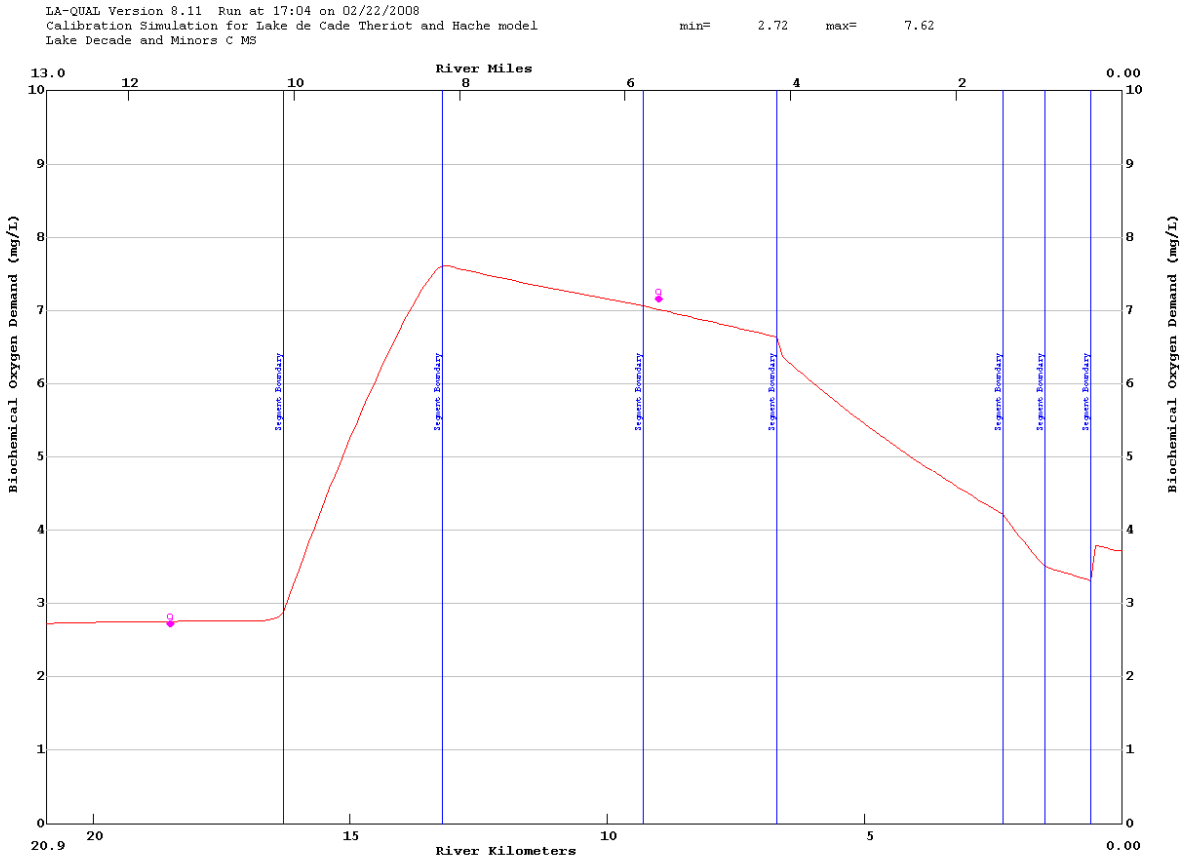

Figure E-19. BOD modeling results for Lake de Cade in subsegment 120406.

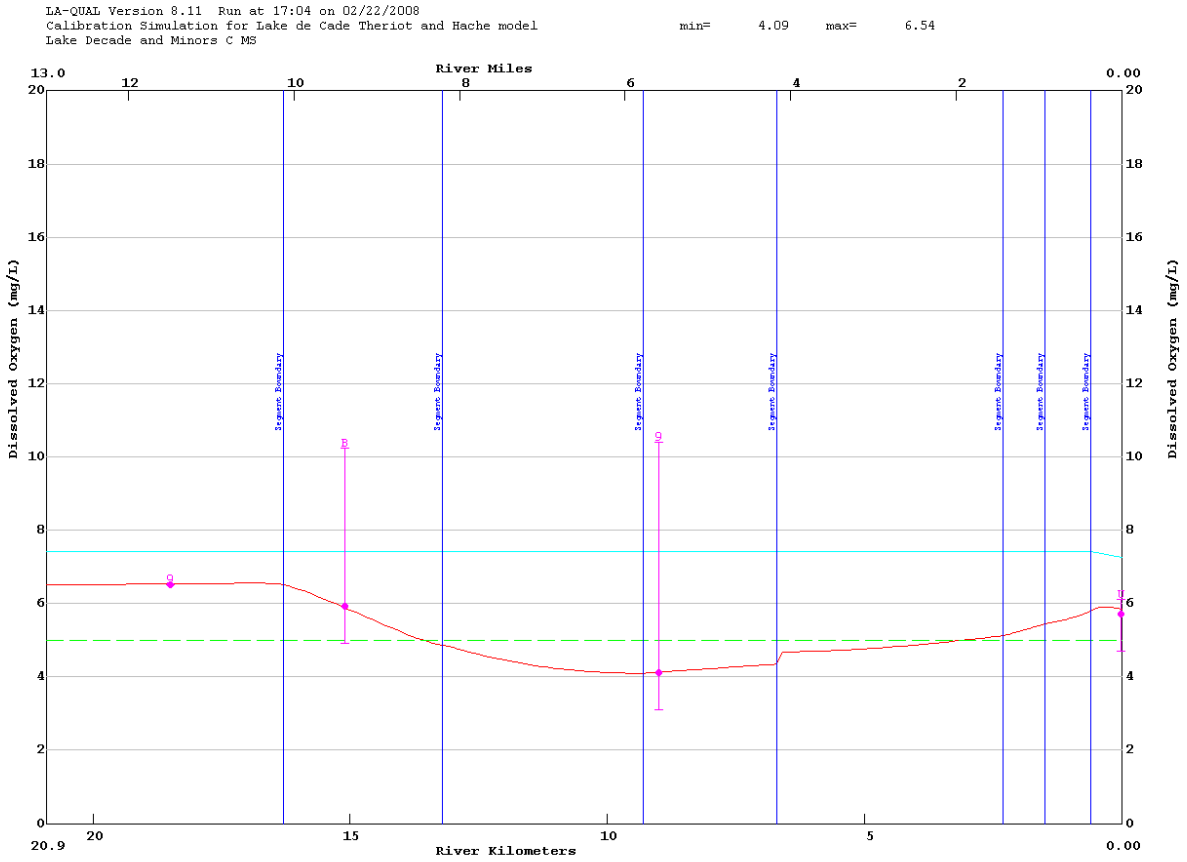

Figure E-20. DO modeling results for Lake de Cade in subsegment 120406.