FINAL

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

(120202, 120204, 120304, 120403, 120604)

Volume I

Prepared for:

United States Environmental Protection Agency, Region 6
Water Quality Protection Division
Permits, Oversight, and TMDL Team
Dallas, TX 75202

Contract No. 68-C-02-108
Task Order No. 95

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March 14, 2008
Revised June 23, 2008

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 five middle Terrebonne Basin subsegments. The middle Terrebonne Basin is mainly in Terrebonne Parish; smaller portions are in Assumption, St. Mary's, and Lafourche Parishes. Land use in the middle Terrebonne Basin is dominated by wetlands, water, and cultivated crop production. There are areas of urban land in each subsegment. Heavy rainfall events typically occur in March and April as frontal weather systems pass through.

The Louisiana Department of Environmental Quality (LDEQ) has included five middle 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), drinking water supply (DWS), and agriculture (AGR). The subsegments are either fully supporting (F) or not supporting (N).

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

Sub-segment	Subsegment name	Subsegment description	Designated use				
			PCR	SCR	FWP	DWS	AGR
120202	Bayou Black	ICWW to Houma	F	F	N	F	
120204	Lake Verret and Grassy Lake	Lake Verret and Grassy Lake	F	F	N		
120304	Intracoastal Waterway	Houma to Larose	F	F	F	F	F
120403	Intracoastal Waterway	Bayou Boeuf Locks to Bayou Black in Houma; includes portions of Bayous Boeuf, Black, Chene, and Cocodrie	F	F	F	F	F
120604	Bayou Blue	ICWW to Grand Bayou Canal	N	F	N		

A water quality model (LA-QUAL) was set up to simulate dissolved oxygen, 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). 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 ($CBOD_u$, 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 for oxygen demand. There were no reductions to nutrients. Reduction percentages from baseline conditions for total oxygen demand ranged from 0 to 32 percent. There were no reductions for WLAs.

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

Subsegment	Oxygen demand (lb/d)				
120202	SOD	$CBOD_u$	Ammonia	Organic N	Total
WLA	624	2,109	1,009	1,049	4,791
MOS for WLA	78	264	126	131	599
FG for WLA	78	264	126	131	599
LA	6,495	10,293	992	6,165	23,944
MOS for LA	812	1,287	124	771	2,993
FG for LA	812	1,287	124	771	2,993
TMDL	8,899	15,502	2,501	9,017	35,919

Table ES-2. (continued)

Subsegment	Oxygen demand (lb/d)				
120204	**SOD**	**$CBOD_u$**	**Ammonia**	**Organic N**	**Total**
WLA	4,208	14,151	164	1,389	19,911
MOS for WLA	526	1,769	20	174	2,489
FG for WLA	526	1,769	20	174	2,489
LA	313,737	1,044,751	3,468	99,166	1,461,122
MOS for LA	39,217	130,594	434	12,396	182,640
FG for LA	39,217	130,594	434	12,396	182,640
TMDL	397,431	1,323,627	4,540	125,693	1,851,291
Subsegment	**Oxygen demand (lb/d)**				
120304	**SOD**	**$CBOD_u$**	**Ammonia**	**Organic N**	**Total**
WLA	496	6,890	73	1,303	8,762
MOS for WLA	62	861	9	163	1,095
FG for WLA	62	861	9	163	1,095
LA	8,397	116,442	1,082	21,985	147,906
MOS for LA	1,050	14,555	135	2,748	18,488
FG for LA	1,050	14,555	135	2,748	18,488
TMDL	11,116	154,166	1,444	29,109	195,836
Subsegment	**Oxygen demand (lb/d)**				
120403	**SOD**	**$CBOD_u$**	**Ammonia**	**Organic N**	**Total**
WLA	850	2,366	88	1,165	4,470
MOS for WLA	106	296	11	146	559
FG for WLA	106	296	11	146	559
LA	73,374	199,703	4,822	99,162	377,060
MOS for LA	9,172	24,963	603	12,395	47,133
FG for LA	9,172	24,963	603	12,395	47,133
TMDL	92,780	252,586	6,138	125,409	476,913
Subsegment	**Oxygen demand (lb/d)**				
120604	**SOD**	**$CBOD_u$**	**Ammonia**	**Organic N**	**Total**
WLA	0	35	22	11	68
MOS for WLA	0	4	3	1	9
FG for WLA	0	4	3	1	9
LA	910	3,984	166	1,818	6,879
MOS for LA	114	498	21	227	860
FG for LA	114	498	21	227	860
TMDL	1,138	5,024	235	2,286	8,684

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

Subsegment	Percent reduction				
	SOD	**$CBOD_u$**	**Ammonia**	**Organic N**	**Total**
120202	23.7	12.7	8.8	9.4	15.1
120204	13.2	22.6	1.3	21.9	20.6
120304	70.9	22.1	40.9	39.5	31.7
120403	11.7	7.8	1.1	3.7	7.5
120604	0.0	0.0	0.0	0.0	0.0

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 TMDLs for nutrients in the middle Terrebonne Basin

Subsegment	∑ WLA (lb/d)	∑ LA (lb/d)	MOS	FG (10%) (lb/d)	Total allowable loading (lb/d)	Percent reduction
Total phosphorus						
120202	0.00	0.57	Implicit	0.06	0.64	0.00
120204	0.00	0.69	Implicit	0.08	0.76	0.00
120304	0.00	0.02	Implicit	0.00	0.03	0.00
Total nitrogen						
120202	0.00	3.51	Implicit	0.39	3.90	0.00
120204	0.00	4.21	Implicit	0.47	4.68	0.00
120304	0.00	0.14	Implicit	0.02	0.16	0.00

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.

CONTENTS

1 INTRODUCTION 1
2 BACKGROUND INFORMATION 3
2.1 General Description 3
2.2 Land Use 3
2.3 Hydrologic Setting 6
2.4 Designated Uses and Water Quality Criteria 6
2.5 Identification of Sources 7
2.5.1 Point Sources 7
2.5.2 Nonpoint Sources 8
3 CHARACTERIZATION OF EXISTING WATER QUALITY 9
3.1 Water Quality Data 9
3.2 Comparison of Observed Data to Criteria 11
4 WATER QUALITY MODEL SETUP AND CALIBRATION 12
4.1 Model Setup 12
4.2 Calibration Period 12
4.3 Model Options (Data Type 2) 12
4.4 Program Constants (Data Type 3) 12
4.5 Temperature Correction of Kinetics (Data Type 4) 13
4.6 Hydraulics (Data Type 9) 13
4.7 Dispersion (Data Types 10 and 27) 13
4.8 Initial Conditions (Data Type 11) 14
4.9 Water Quality Kinetics (Data Types 12 and 13) 14
4.10 Incremental Data (Data Types 16, 17, and 18) 15
4.11 Nonpoint Source Loads (Data Type 19) 15
4.12 Headwater Flow, Water Quality, and Junction Data (Data Types 20, 21, 22, and 23) 16
4.13 Wasteload Flow and Water Quality Data (Data Types 24, 25, and 26) 16
4.14 Calibration and Model Results 17
5 WATER QUALITY MODEL PROJECTION 19
5.1 Identification of Critical Conditions 19
5.2 Temperature Inputs 19
5.3 Headwater and Tributary (Wasteload) Inputs 19
5.4 Point Source Inputs 20
5.5 Downstream Values 20
5.6 Baseline Model Results 20
5.7 Model Results for Projection 20
6 TMDL DEVELOPMENT 21
6.1 Dissolved Oxygen TMDLs 22
6.1.1 Seasonal Variation 31
6.1.2 Sensitivity Analysis 32
6.1.3 Ammonia Toxicity Analysis 32
6.2 Nutrient TMDLs 33
7.1 TMDL Implementation Strategies 35
7.2 Environmental Monitoring Activities 36
8 PUBLIC PARTICIPATION 37
REFERENCES 38

TABLES

Table 1-1. Subsegments and impairments addressed in this report 1
Table 2-1. Drainage area and parish of each subsegment 3
Table 2-2. Land use percentages for each listed subsegment in the middle Terrebonne Basin 6
Table 2-3. MS4 information for the Terrebonne Basin 8
Table 3-1. LDEQ water quality monitoring stations and dissolved oxygen data summaries 10
Table 3-2. Data types from July 2006 monitoring 10
Table 3-3. Summary of LDEQ dissolved oxygen data for the middle Terrebonne Basin 11
Table 3-4. Summary of dissolved oxygen data from July 2006 monitoring event 11
Table 4-1. Average channel widths and depths for each model segment 13
Table 4-2. Water quality kinetics rates 15
Table 4-3. Summary of point sources and tributaries used in LA-QUAL 16
Table 4-4. Existing oxygen demand 18
Table 5-1. Baseline oxygen demand 20
Table 6-1. Summary of dissolved oxygen TMDLs, WLAs, LAs, MOSs, and FGs for the middle Terrebonne Basin 23
Table 6-2. Summary of percent reductions for LAs in the middle Terrebonne Basin 24
Table 6-3. WLAs for BOD_5 for subsegment 120202 in the middle Terrebonne Basin 24
Table 6-4. WLAs for ammonia for subsegment 120202 in the middle Terrebonne Basin 25
Table 6-5. WLAs for organic nitrogen for subsegment 120202 in the middle Terrebonne Basin 26
Table 6-6. WLAs for BOD_5 for subsegment 120204 in the middle Terrebonne Basin 27
Table 6-7. WLAs for ammonia for subsegment 120204 in the middle Terrebonne Basin 27
Table 6-8. WLAs for organic nitrogen for subsegment 120204 in the middle Terrebonne Basin 28
Table 6-9. WLAs for BOD_5 for subsegment 120304 in the middle Terrebonne Basin 28
Table 6-10. WLAs for ammonia for subsegment 120304 in the middle Terrebonne Basin 28
Table 6-11. WLAs for organic nitrogen for subsegment 120304 in the middle Terrebonne Basin 29
Table 6-12. WLAs for BOD_5 for subsegment 120403 in the middle Terrebonne Basin 29
Table 6-13. WLAs for ammonia for subsegment 120403 in the middle Terrebonne Basin 30
Table 6-14. WLAs for organic nitrogen for subsegment 120403 in the middle Terrebonne Basin 30
Table 6-15. WLAs for BOD_5 for subsegment 120604 in the middle Terrebonne Basin 30
Table 6-16. WLAs for ammonia for subsegment 120604 in the middle Terrebonne Basin 30
Table 6-17. WLAs for organic nitrogen for subsegment 120604 in the middle Terrebonne Basin 31
Table 6-18. Summary of WLAs for MS4s the middle Terrebonne Basin 31
Table 6-19. Results of sensitivity analysis 32
Table 6-20. Predicted ammonia concentration and calculated critical criteria 33
Table 6-12. Nutrient concentrations in non-impaired subsegments 33
Table 6-13. Nutrient concentrations in the impaired subsegments in the middle Terrebonne Basin 34
Table 6-14. Average water yields for climate divisions in the Terrebonne Basin 34
Table 6-15. Summary of TMDLs for nutrients in the middle Terrebonne Basin 34

FIGURES

Figure 2-1. Locations of middle Terrebonne Basin subsegments. 4
Figure 2-2. Land use in the middle Terrebonne Basin subsegments. 5
Figure 3-1. Locations of monitoring stations in the middle Terrebonne Basin. 9
Figure 4-1. Calibration plot for dissolved oxygen in subsegments 120304 and 120403..... 18

APPENDICES

Appendix A: Point Source Discharge Information for the Middle Terrebonne Basin
Appendix B: Monitoring Data Tables and Plots
Appendix C: Field Survey Notes (CD-ROM—Available upon request)
Appendix D: Model Vector Diagrams
Appendix E: Model Output for Calibration
Appendix F: Plots of Calibrated and Observed Water Quality
Appendix H: Model Output for Baseline Conditions
Appendix H: Model Output for TMDL
Appendix I: Plots of Water Quality for Baseline Conditions
Appendix J: Plots of Predicted Water Quality for TMDL
Appendix K: Sensitivity Analysis Plots
Appendix L: Ammonia Toxicity Calculations

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 in five subsegments in the middle Terrebonne Basin. The impaired designated uses for the subsegments are primary and secondary contact recreation, fish and wildlife propagation, drinking water supply, and agriculture. 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 of impaired waters for the five subsegments. All the subsegments have the suspected cause of *unknown sources*, which indicates that various sources might be present but not enough data are available to identify them.

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

Sub-segment	Subsegment name	Subsegment description	Designated use				
			PCR	SCR	FWP	DWS	AGR
120202	Bayou Black	ICWW to Houma	F	F	N	F	
120204	Lake Verret and Grassy Lake	Lake Verret and Grassy Lake	F	F	N		
120304	Intracoastal Waterway	Houma to Larose	F	F	F	F	F
120403	Intracoastal Waterway	Bayou Boeuf Locks to Bayou Black in Houma; includes portions of Bayous Boeuf, Black, Chene, and Cocodrie	F	F	F	F	F
120604	Bayou Blue	ICWW to Grand Bayou Canal	N	F	N		

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. 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).

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 five subsegments in the middle portion of the Terrebonne Basin: Bayou Black (subsegment 120202); Lake Verret and Grassy Lake (subsegment 120204); Intracoastal Waterway east of Houma (subsegment 120304); Intracoastal Waterway–Bayou Boeuf Locks to Bayou Black in Houma, which includes portions of Bayous Boeuf, Black, Chene, and Cocodrie (subsegment 120403); and Bayou Blue (subsegment 120604). The middle Terrebonne Basin is mainly in Terrebonne Parish; there are smaller portions in Assumption, St. Mary's, and Lafourche Parishes. Table 2-1 lists the parishes 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 Black	120202	Assumption, Lafourche, Terrebonne	133	345
Lake Verret and Grassy Lake	120204	Assumption	149	386
Intracoastal Waterway east of Houma	120304	Lafourche, Terrebonne	5	14
Intracoastal Waterway – Bayou Boeuf Locks	120403	Assumption, St. Mary, Terrebonne	137	355
Bayou Blue	120604	Lafourche, Terrebonne	26	69

2.2 Land Use

Land use data were obtained from the 2001 USGS National Land Cover Dataset (NLCD; Figure 2-2 and Table 2-2). The predominant land use in the impaired subsegments is wetland. The percentage of wetlands in the watersheds ranges from 36 percent to 81 percent followed by cultivated crops, water, and developed. There is very little barren, forest, or grassland/shrub land in any of the five subsegments. Subsegments 120202 and 120204 have cultivated crops as roughly a quarter of the land use. Subsegments 120403 and 120604 are over 90 percent wetlands and open water.

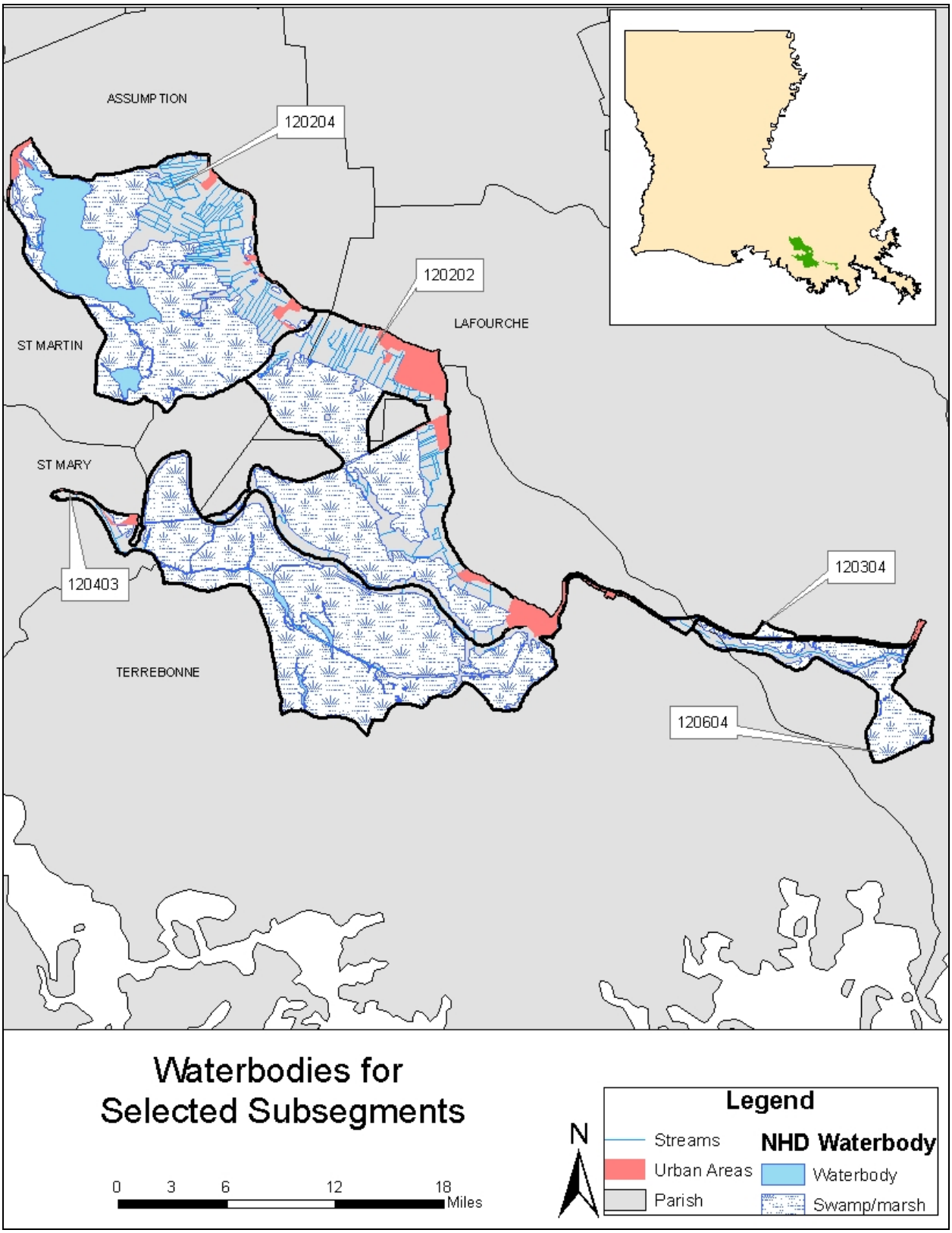

Figure 2-1. Locations of middle Terrebonne Basin subsegments.

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

Table 2-2. Land use percentages for each listed subsegment in the middle Terrebonne Basin

Land use type	Percent of total area				
	Bayou Black (120202)	Lake Verret (120204)	Intracoastal Waterway (120304)	Intracoastal Waterway (120403)	Bayou Blue (120604)
Water	0.53	17.78	41.71	9.70	13.96
Developed	9.06	2.22	12.04	3.48	2.37
Barren	0.16	0.00	0.03	0.08	0.11
Forest	0.01	0.00	0.00	0.01	0.00
Grassland/shrub	0.31	0.08	0.24	0.15	0.25
Pasture/hay	1.86	0.38	3.91	1.58	3.26
Cultivated crops	25.52	22.79	6.53	3.50	3.85
Wetlands	62.55	56.75	35.53	81.49	76.20
TOTAL	100.00	100.00	100.00	100.00	100.00

2.3 Hydrologic Setting

Because reversing flows occur at times throughout the Terrebonne Basin, there are very few USGS flow gauges in the Terrebonne Basin. The USGS online hydrology database, NWISWeb, contains two stations with flow data for the listed subsegments that are impaired for dissolved oxygen and nutrients. One station, on the Intracoastal Waterway near Houma (USGS station 07381331; subsegment 120304), has only peak discharge data and was not used. The other station is on the Intracoastal Waterway near Bay Wallace (USGS 073816505; subsegment 120403). Not using negative flows, the average flow at this station is 5,737 cubic feet per second (cfs); the minimum flow is 292 cfs, and the maximum is 11,500 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 48 permitted point source discharges in subsegment 120202, 15 in subsegment 120204, 12 in subsegment 120304, 5 in subsegment 120403, and 5 in subsegment 120604. Because of the large number of permits, they are listed in Appendix A.

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

Under the NPDES stormwater program, operators of large, medium, and regulated small municipal separate storm sewer systems (MS4s) must obtain authorization to discharge pollutants. The Stormwater Phase I Rule (55 *Federal Register* 47990, November 16, 1990)

requires all operators of medium and large MS4s to obtain an NPDES permit and develop a stormwater management program. Medium and large MS4s are defined by the size of the population within the MS4 area, not including the population served by combined sewer systems. A medium MS4 has a population between 100,000 and 249,999; a large MS4 has a population of 250,000 or more.

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

In Louisiana, there are two ways that an MS4 can be identified as a regulated small MS4. This category includes all cities within UAs and any small MS4 area outside UAs with a population of at least 10,000 and a population density of at least 1,000 people per square mile (LDEQ 2002). In the middle Terrebonne Basin, Terrebonne Parish, the City of Morgan City, and the Assumption Parish Police Jury are regulated small MS4s. Table 2-3 presents MS4 information by subsegment for MS4 discharges to impaired subsegments in the Terrebonne Basin. Terrebonne Parish discharges to additional waterbodies that are not impaired for dissolved oxygen; these waterbodies are not part of this TMDL. Similarly, La Fourche Parish has an MS4 permit, but it does not discharge to any of the impaired subsegments in this TMDL.

Table 2-3. MS4 information for the Terrebonne Basin

NPDES permit number	Authority	Municipalities included	Discharge subsegment	Subsegment name	Urban area (acres)
LAR041023	Terrebonne Parish	Houma, Schriever, Thibodaux	120202	Bayou Black	7,462
LAR041023	Terrebonne Parish	Houma	120304	Intracoastal Waterway east of Houma	188
LAR041023	Terrebonne Parish	Houma	120403	Intracoastal Waterway–Bayou Boeuf Locks	657
LAR041028	Morgan City	Morgan City	120403	Intracoastal Waterway–Bayou Boeuf Locks	346
LAR041039	Assumption Parish Police Jury	Labadieville, Supreme	120204	Lake Verret and Grassy Lake	1,261

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 middle 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 B 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 seven listed subsegments (see Table 3-1).

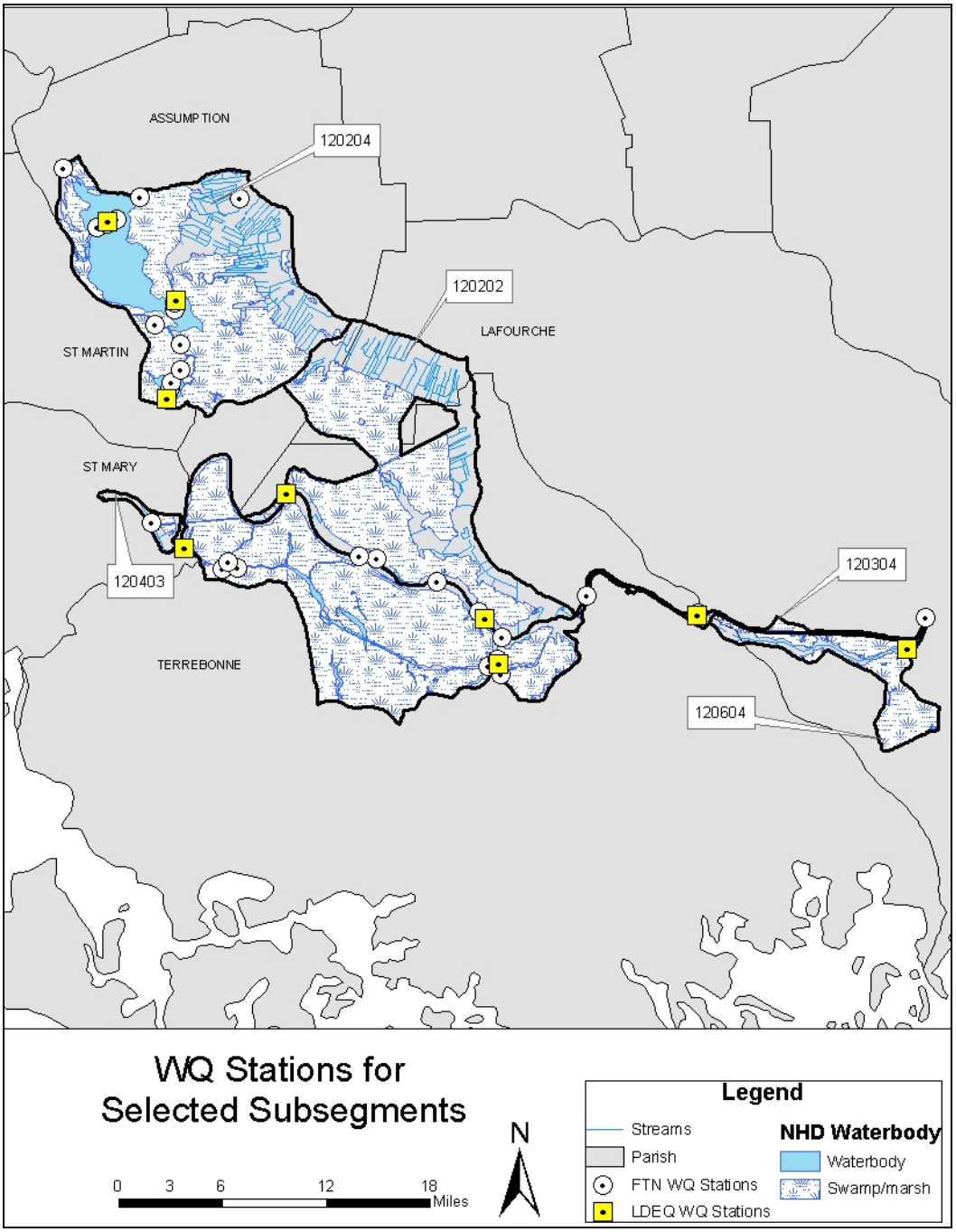

Figure 3-1. Locations of monitoring stations in the middle Terrebonne Basin.

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 B. Appendix B 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 B. Appendix C contains the field survey notes.

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

Sub segment	Station	Station name	Period of record	No. of obs.	DO min (mg/L)	DO max (mg/L)	DO ave. (mg/L)
120202	114	Bayou Black at Gibson, LA	6/1/58–5/12/98	389	0.1	11.0	3.6
120202	339	Bayou Black west of Houma, LA	2/4/91–4/19/04	60	1.0	8.7	4.4
120204	144	Lake Verret at Attakapas Landing near Georgia	1/13/87–11/29/00	100	2.7	12.8	8.1
120204	145	Lake Verret near Pierre Part, LA	1/13/87–12/11/90	47	5.2	14.5	8.5
120304	340	Intracoastal waterway east of Houma, LA	2/5/91–12/6/00	56	2.9	10.5	6.5
120403	934	Intracoastal Waterway at Venvirotek Dock, LA	1/5/00–4/19/04	16	4.0	10.0	6.5
120604	945	Bayou Blue SSW of Larose, LA	1/4/00–4/13/04	16	3.0	9.7	6.4

Note: DO = dissolved oxygen

Table 3-2. Data types from July 2006 monitoring

Subsegment	Site ID	Site name	Data types collected
120202	114	Bayou Black at Gibson, LA	In situ, sample, cross section, flow, contin.
120202	120202-A	Terrebonne-Lafourche Drainage Canal near Greenwood, LA	In situ, sample, flow
120202	120202-B	Bayou Black near Oak Forest, LA	In situ, cross section
120202	120202-C	Bayou Black near Humphreys, LA	In situ, cross section
120202	339	Bayou Black west of Houma, LA	In situ, sample, flow, cross section
120204	120204-A	Bayou Pierre Part near Pierre Part, LA	In situ, sample, flow
120204	145	Lake Verret near Pierre Part, LA	In situ, sample, depth
120204	120204-B	Lake Verret west of Station 145	In situ, depth
120204	120204-C	Lake Verret east of Station 145	In situ, depth
120204	120204-D	Godchaux Canal near Lake Verret	In situ, sample, flow, cross section
120204	120204-E	Godchaux Canal near Napoleonville	In situ, sample, flow, cross section
120204	144	Lake Verret at Attakapas Landing near Georgia, LA	In situ, depth
120204	120204-F	Lake Verret south of Attakapas Landing	In situ, sample, depth
120204	120204-G	Bayou Magazille	In situ, sample, flow
120204	120204-H	Fourmile Bayou near Lake Verret	In situ, flow, cross section
120204	120204-I	Fourmile Bayou near Grassy Lake	In situ, cross section
120204	120204-J	Grassy Lake northeast of middle	In situ, depth
120204	120204-K	Grassy Lake near middle	In situ, sample, depth
120304	340	Intracoastal Waterway east of Houma, LA	In situ, sample
120304	120304-A	Intracoastal Waterway at Larose, LA	In situ, sample, flow

Table 3-2. (continued)

Subsegment	Site ID	Site name	Data types collected
120403	120403-A	Intracoastal Waterway between Bayou Chene and Bayou Black	In situ, flow, cross section
120403	120403-B	Bayou Black near confluence with GIWW south of Lake Bridge, LA	In situ, flow, cross section
120403	120403-C	Intracoastal Waterway east of confluence with Bayou Black S of Lake Bridge, LA	In situ, cross section
120403	120403-D	Intracoastal Waterway west of Minors Canal	In situ, sample, flow, cross section
120403	120403-E	Minors Canal north of GIWW	In situ, flow, cross section
120403	120403-F	Minors Canal south of GIWW	In situ, flow, cross section
120403	120403-G	Bayou Boeuf at Amelia, LA	In situ, sample
120403	120403-H	Intracoastal Waterway near lock at Morgan City	In situ, sample, cross section
120403	120403-I	Bayou Chene near Intracoastal Waterway	In situ, sample
120403	120403-J	Houma Navigation Canal near Houma	In situ, sample, flow
120604	945	Bayou Blue SSW of Larose, LA	In situ, sample, flow

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 16 and 389 data points. All seven 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 middle Terrebonne Basin

LDEQ station	Subsegment	Period of record	No. of samples	DO min. (mg/L)	DO max. (mg/L)	DO ave. (mg/L)	Percent <5 mg/L
114	120202	6/1/58–5/12/98	389	0.1	11.0	3.6	70
339	120202	2/4/91–4/19/04	60	1.0	8.7	4.4	58
144	120204	1/13/87–11/29/00	100	2.7	12.8	8.1	7
145	120204	1/13/87–12/11/90	47	5.2	14.5	8.5	0
340	120304	2/5/91–12/6/00	56	2.9	10.5	6.5	29
934	120403	1/5/00–4/19/04	16	4.0	10.0	6.5	19
945	120604	1/4/00–4/13/04	16	3.0	9.7	6.4	25

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 except subsegment 120406 had dissolved oxygen observations below the water quality criterion of 5 mg/L.

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

Subsegment	No. of locations	Range of sample depths	No. of samples	DO min. (mg/L)	DO max. (mg/L)	DO ave. (mg/L)	Percent samples < 5 mg/L
120202	5	2–9	10	1.8	10.5	4.9	50
120204	13	0.4–18	24	1.6	12.4	7.0	29
120304	3	3–15	6	3.8	4.6	4.2	100
120403	10	3–18	26	3.2	6.8	4.7	69
120604	1	3–6	2	4.8	4.9	4.8	100

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.

Three models were used for the middle Terrebonne Basin: Lake Verret (120204), Bayou Blue (120604), 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 D 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). For the Bayou Black/Intracoastal Waterway and Bayou Blue models, the maximum iteration limit was changed from the default 100 to 500; the wind speed was changed from the default of 0 to 1.3; and the algae oxygen production was changed from the default of 0.05 to 0.026.

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)

For the Bayou Black/Intracoastal Waterway and Bayou Blue models, the ammonia N decay rate was changed from the default to 1.07.

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 were made 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	120202/1200304/120403		120204		120604	
	Width (m)	Depth (m)	Width (m)	Depth (m)	Width (m)	Depth (m)
1	182.49	9.30	1,343	1.01	10.0	0.5
2	209.06	13.35	107	5.24	44.0	1.4
3	395.30	12.77	87	2.50	65.5	0.9
4	190.0	12.19	87	4.39	--	--
5	196.71	4.57	1,892	1.34	--	--
6	31.17	1.16	4,092	2.13	--	--
7	31.17	1.16	767	1.95	--	--
8	155.80	12.8	--	--	--	--

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, 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 for the stream portions of the model. 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 model that simulates Lake Verret, 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)

For the Bayou Black/Intracoastal Waterway model, a different method was used. This equation is

$$K_2 = \frac{0.319 \times W}{D}$$

where:

W = wind velocity (meters/second)
D = stream depth (meters)

The input files that list these values are provided in Appendix E. Table 4-2 summarizes these rates. The CBOD decay rate varied by 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 by subsegment reach. The 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	120202/1200304/ 120403	120204	120604
Background SOD ($g/m^2/d$)	0.7–2.2	0.7–3	0.5–0.7
BOD #1 decay rate (aerobic) (1/d)	0.15–0.17	0.16–0.23	0.15
Ammonia decay rate (1/d)	0.02	0.02	0.02
Ammonia nitrogen oxidation rate (1/d)	0.13–0.2	0.2	0.13
Oxygen transfer coefficient "*a*" (m/d)	--	0.75	--

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, $CBOD_u$, organic nitrogen, ammonia, and nitrate+nitrite was included. Appendix E contains the input files with these values. Incremental flow was determined from flow measurements obtained during the July 2006 monitoring. Incremental data were not used in the Lake Verret model.

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, $CBOD_u$ loads, and organic nitrogen loads. The SOD (from data type 12) and the mass loads of organic nitrogen and $CBOD_u$ (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 $CBOD_u$ loads were adjusted until the predicted $CBOD_u$ 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 13 direct permitted dischargers, plus 28 permitted dischargers that were combined because of lack of discharge pathway information and their proximity to assumed pathways. Eleven tributaries were included as input in these data types and 8 outflows to other waterbodies. The inputs and their associated flows and concentrations are provided in Table 4-3. Data from tributaries were developed from observed data. Dissolved oxygen was set to 5.0 for point sources. Permitted BOD_5 discharge limits were converted to ultimate CBOD using a conversion factor of 2.3. Organic nitrogen and nitrate+nitrite were assumed from surrounding waters. Ammonia was assumed to be 1.5 mg/L for smaller point sources; for larger point sources, ammonia was taken from permit limits or from discharge monitoring reports. When point sources were combined, flow-weighted averages were used.

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

Sub-segment	Point source/ tributary name	Flow (mgd)	DO (mg/L)	$CBOD_u$ (mg/L)	Org N (mg/L)	Ammonia (mg/L)	NO_3+NO_2 (mg/L)	Comment
120202	LA0074331	0.0002	5	103.5	1.4	1.5	2	Combined point sources
120202	LA0111236	0.5	5	57.5	1.4	20	2	Point source
120202	LAG531469	0.0032	5	103.5	1.4	1.5	2	Point source
120202	LAG540726	0.0008	5	69	1.4	1.5	2	Point source
120202	LAG541223	0.0162	5	69	1.4	1.5	2	Point source
120202	LAG541317	0.0097	5	69	1.4	1.5	2	Point source
120202	Little Bayou Black	29.7	2.3	9.42	1.63	0.14	0	Tributary
120202	Minors Canal	12	10.4	7.16	1.4	0.1	0	Tributary
120202	PS Bayou Black#1	0.0341	5	56.879	1.4	1.5	2	Combined point sources
120202	PS Bayou Black#2	0.0439	5	52.67	1.4	1.5	2	Combined point sources
120202	PS Bayou Black#3	0.0042	5	103.5	1.4	1.5	2	Combined point sources
120202	PS Hanson Canal	0.0365	5	25.346	1.4	1.5	2	Combined point sources
120202	PS Lil Bayou Black	0.009	5	103.5	1.63	1.5	2	Combined point sources
120204	Bayou Magazille	687.016	7.6	16.8	2.4	0.1	0.2	Tributary
120204	LAG540112	0.01	5	69	2	1.5	2	Point source
120204	LAG560026	0.028	5	46	2	1.5	2	Point source
120204	NPDES Group1	0.036	5	69	2	1.5	2	Combined point sources
120204	NPDES Group2	0.211	5	27.14	2	5.7	2	Combined point sources

Table 4-3. (continued)

Sub-segment	Point source/ tributary name	Flow (mgd)	DO (mg/L)	$CBOD_u$ (mg/L)	Org N (mg/L)	Ammonia (mg/L)	NO3+NO2 (mg/L)	Comment
120204	NPDES Group3	0.002	5	103.5	2	1.5	2	Combined point sources
120204	Outflow to FB Oxbow	-200.855	6.8	25.5	1.7	0.1	0	Flow to another waterbody
120304	Bayou Bleu North	27.8	3.34	8.74	0.9	0.1	0	Tributary
120304	Bayou Bleu South	-9						Flow to another waterbody
120304	Bayou Terrebonne E.	-22						Flow to another waterbody
120304	Bayou Terrebonne W.	32.3	2.3	9.42	1.63	0.14	0	Tributary
120304	Company Canal North	95	3.89	9.83	1.34	0.1	0	Tributary
120304	Company Canal South	-12.3						Flow to another waterbody
120304	LA0089648	0.0785	5	103.5	1.4	1.5	2	Point source
120304	LA0104868	0.0011	5	103.5	1.4	1.5	2	Point source
120304	LA0111376	0.0003	5	103.5	1.4	1.5	2	Point source
120304	PS ICWW#2	0.0009	5	103.5	1.4	1.5	2	Combined point sources
120304	St Louis Canal	10.3	3.34	8.74	0.9	0.1	0	Tributary
120403	Bayou Boeuff	1,093.40	4.4	5	1.6	0.1	0	Tributary
120403	Bayou Chene	-832.5						Flow to another waterbody
120403	Copasaw Canal	349	6.6	6.17	1.4	0.1	0	Tributary
120403	Houma Nav. Can.	-543.5						Flow to another waterbody
120403	Minors Canal North	-12						Flow to another waterbody
120403	Minors Canal South	102.1	10.4	7.16	1.4	0.1	0	Tributary
120403	PS ICWW#1	0.0006	5	103.5	1.4	1.5	2	Combined point sources
120403	Unnamed Canal	35.5	6.6	6.17	1.4	0.1	0	Tributary
120604	ICWW	-9.04711						Flow to another waterbody
120604	LA0084077	0.003877	5	103.5	1.4	1.5	0	Point source

4.14 Calibration and Model Results

Model calibration was a multistep process using ammonia, $CBOD_u$, 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 $CBOD_u$ loads were adjusted until the predicted $CBOD_u$ 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, $CBOD_u$, 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 F. 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
120202	10,636	8,656	890	3,411	22,113
120204	457,729	1,986,216	8,309	224,615	2,676,656
120304	36,128	191,807	2,290	45,525	275,739
120403	103,827	284,252	6,069	128,309	522,421
120604	1,138	2,798	82	816	4,816

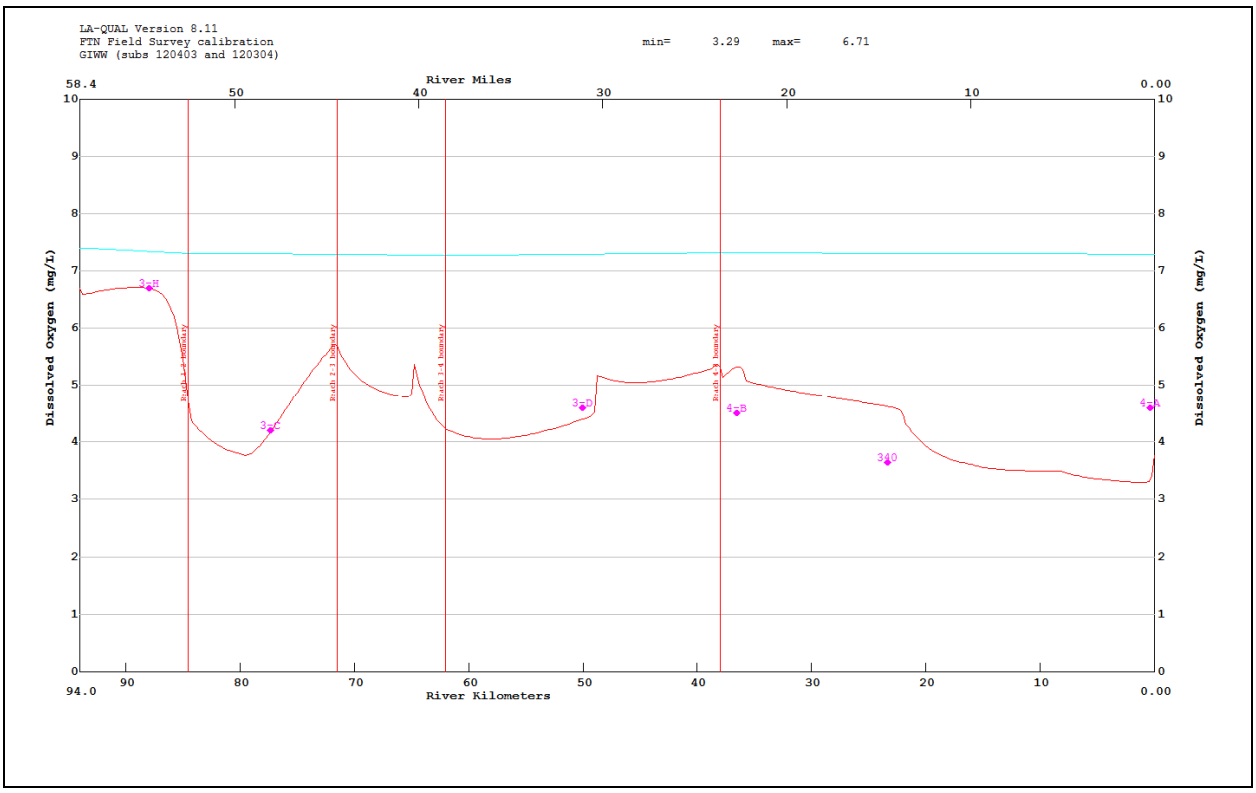

Figure 4-1. Calibration plot for dissolved oxygen in subsegments 120304 and 120403.

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 G contains the baseline output files and Appendix H 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. $CBOD_u$ 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 I. 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
120202	10,636	16,139	2,501	9,075	38,350
120204	451,609	1,686,949	4,540	158,722	2,301,820
120304	36,128	186,972	2,299	45,414	270,813
120403	103,827	270,953	6,138	128,750	509,668
120604	1,138	5,024	235	2,286	8,684

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 between 0 and 32 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 J.

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.

EPA's stormwater permitting regulations require municipalities to obtain permit coverage for all stormwater discharges from MS4s. For each MS4 in the basin, a gross MS4 load was computed by multiplying the LA by the ratio of the MS4 area in each subsegment to the subsegment area. Note that these values are estimates that can be refined in the future as more information about the MS4s and land-use-specific loadings becomes available. Note also that the MS4 loads presented reflect only that portion of the MS4 in the subsegment. The computed MS4 load was subtracted from the LA and included as a WLA component of the TMDL because MS4s are permitted dischargers but function similarly to nonpoint sources (through storm-driven processes). EPA expects that the MS4 WLAs will be achieved through BMPs and adaptive management.

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 $CBOD_u$, ammonia 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. The reduction percentages for total oxygen demand ranged from 0 to 32 percent.

WLAs were calculated using monthly average permit limits, when applicable. If a permit did not have a monthly average permit limit, the weekly average permit limit was used. If the facility had neither a monthly nor a weekly limit, the daily maximum limit was used to calculate loads. All facilities had oxygen demand and limits; however, only a few had ammonia limits. 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. The WLAs are presented in Tables 6-4 through 6-17. Table 6-18 lists the individual WLAs for the MS4s identified in Section 2.5. 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 middle Terrebonne Basin

Subsegment	Oxygen demand (lb/d)				
120202	**SOD**	**$CBOD_u$**	**Ammonia**	**Organic N**	**Total**
WLA	624	2,109	1,009	1,049	4,791
MOS for WLA	78	264	126	131	599
FG for WLA	78	264	126	131	599
LA	6,495	10,293	992	6,165	23,944
MOS for LA	812	1,287	124	771	2,993
FG for LA	812	1,287	124	771	2,993
TMDL	8,899	15,502	2,501	9,017	35,919
Subsegment	**Oxygen demand (lb/d)**				
120204	**SOD**	**$CBOD_u$**	**Ammonia**	**Organic N**	**Total**
WLA	4,208	14,151	164	1,389	19,911
MOS for WLA	526	1,769	20	174	2,489
FG for WLA	526	1,769	20	174	2,489
LA	313,737	1,044,751	3,468	99,166	1,461,122
MOS for LA	39,217	130,594	434	12,396	182,640
FG for LA	39,217	130,594	434	12,396	182,640
TMDL	397,431	1,323,627	4,540	125,693	1,851,291
Subsegment	**Oxygen demand (lb/d)**				
120304	**SOD**	**$CBOD_u$**	**Ammonia**	**Organic N**	**Total**
WLA	496	6,890	73	1,303	8,762
MOS for WLA	62	861	9	163	1,095
FG for WLA	62	861	9	163	1,095
LA	8,397	116,442	1,082	21,985	147,906
MOS for LA	1,050	14,555	135	2,748	18,488
FG for LA	1,050	14,555	135	2,748	18,488
TMDL	11,116	154,166	1,444	29,109	195,836
Subsegment	**Oxygen demand (lb/d)**				
120403	**SOD**	**$CBOD_u$**	**Ammonia**	**Organic N**	**Total**
WLA	850	2,366	88	1,165	4,470
MOS for WLA	106	296	11	146	559
FG for WLA	106	296	11	146	559
LA	73,374	199,703	4,822	99,162	377,060
MOS for LA	9,172	24,963	603	12,395	47,133
FG for LA	9,172	24,963	603	12,395	47,133
TMDL	92,780	252,586	6,138	125,409	476,913
Subsegment	**Oxygen demand (lb/d)**				
120604	**SOD**	**$CBOD_u$**	**Ammonia**	**Organic N**	**Total**
WLA	0	35	22	11	68
MOS for WLA	0	4	3	1	9
FG for WLA	0	4	3	1	9
LA	910	3,984	166	1,818	6,879
MOS for LA	114	498	21	227	860
FG for LA	114	498	21	227	860
TMDL	1,138	5,024	235	2,286	8,684

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

Subsegment	Percent reduction				
	SOD	$CBOD_u$	Ammonia	Organic N	Total
120202	23.7	12.7	8.8	9.4	15.1
120204	13.2	22.6	1.3	21.9	20.6
120304	70.9	22.1	40.9	39.5	31.7
120403	11.7	7.8	1.1	3.7	7.5
120604	0.0	0.0	0.0	0.0	0.0

Table 6-3. WLAs for BOD_5 for subsegment 120202 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD_5 (mg/L)	BOD_5 (lb/d)
LA0042510	002	Lafourche Sugars, LLC FKA A Corp	1.5	10	125.18
LA0066486	001	Tesi-Magnolia Park Service	0.22	10	18.36
LA0074331	101	Universal Compression, Inc.	0.000282	45	0.11
LA0074331	002	Universal Compression, Inc.	0.00016	45	0.06
LA0081809	001	Tesi-Plantation/Leighton	0.12	10	10.01
LAG480528	002	Hydraulic Well Control, Inc.	0.001	45	0.38
LAG480528	003	Hydraulic Well Control, Inc.	0.001	45	0.38
LA0095257	001	Service Sanitary Corporation	0.1307	10	10.91
LA0111236	001	Daneco, Inc.	0.5	25	104.32
LAG750496	002	Redfish Rental of Houma, Inc.	0.005	45	1.88
LAG480103	003	Crosstex Lig Liquids, LLC	0.00144	45	0.54
LAG480103	004	Crosstex Lig Liquids, LLC	0.00144	45	0.54
LAG480134	001	Tetra Technologies, Inc.	0.005	45	1.88
LAG480272	002	Smith Int'l Inc.	0.00015	45	0.06
LAG480317	002	WFS-Liquids Co	0.0015	45	0.56
LAG480563	001	Marine Systems, Inc.	0.0017	45	0.64
LAG530072	001	Bellsouth Telecommunications	0.005	45	1.88
LAG530268	001	J B Levert Land Company	0.00036	45	0.14
LAG530887	001	Sita, Inc.	0.005	45	1.88
LAG531154	001	Terrebonne Parish Recreation	0.005	45	1.88
LAG531233	001	Williams Field Services Co	0.0025	45	0.94
LAG531388	001	Williams Field Svcs Co	0.005	45	1.88
LAG531451	001	Earl Cato Apartments	0.0008	45	0.30
LAG531469	001	Kiva Construction	0.005	45	1.88
LAG531620	001	Circle K #664	0.0009	45	0.34
LAG531981	001	Enviro-Lab, Inc.	0.0002	45	0.08
LAG532058	001	Terrebonne Parish Communications District	0.0015	45	0.56
LAG540525	001	Crestview Mobile Home Park	0.005	45	1.88
LAG540726	001	Terrebonne Ph School-Gibson Elem.	0.0013	30	0.33
LAG540737	001	Tesi-Midway Sub	0.059923	30	15.00
LAG540846	001	C&J Mobile Home Estates	0.025	30	6.26
LAG540934	001	McDonald Sanitation Svc, Inc.	0.00144	30	0.36
LAG541104	001	McDonald & Robichaux, Inc.	0.00831	30	2.08
LAG541158	001	L&B Enterprises of Assumption	0.00126	30	0.32
LAG541223	001	Circle G Mobile Home Park	0.025	30	6.26
LAG541317	001	Mandalay Manor Trailer Park	0.015	30	3.76
LAG560080	001	Harvest Cathedral Ministries	0.02782	20	4.64
LAG560135	001	Terrebonne Par Consolidated Govt	0.024960	20	4.17
LAG560174	001	Schexnayder Properties, LLC	0.03	20	5.01
LAG560175	001	Tesi-Acadian Villa	0.04625	20	7.72
LAG560197	001	Terrebonne Par Cons-Gibson Jar	0.03	20	5.01
LAG560224	001	Tesi-Country Hollow	0.584	20	97.47
LAG570035	001	Lafourche Ph Sewer Dist #4	0.078	10	6.51
LAG570091	001	Thoroughbred Park Subdivision	0.0504	10	4.21

Table 6-3. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD_5 (mg/L)	BOD_5 (lb/d)
LAG570155	001	Lakes of Terrebonne, LLC, The	0.0548	10	4.57
LAG570198	001	Tesi- Twelve Cedars Subdivision	0.0384	20	6.41
LAG750372	002	Hill City Oil Co, Inc.	0.005	45	1.88
LAG750372	003	Hill City Oil Co, Inc.	0.025	30	6.26
LAG750372	004	Hill City Oil Co, Inc.	0.025	45	9.39

Table 6-4. WLAs for ammonia for subsegment 120202 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH_3 (mg/l)	NH_3 (lb/d)
LA0042510	002	Lafourche Sugars, LLC FKA A Corp	1.5	3.3	41.73
LA0066486	001	Tesi-Magnolia Park Service	0.22	3.3	6.12
LA0074331	101	Universal Compression, Inc.	0.000282	15.0	0.04
LA0074331	002	Universal Compression, Inc.	0.00016	15.0	0.02
LA0081809	001	Tesi-Plantation/Leighton	0.12	3.3	3.34
LAG480528	002	Hydraulic Well Control, Inc.	0.001	15.0	0.13
LAG480528	003	Hydraulic Well Control, Inc.	0.001	15.0	0.13
LA0095257	001	Service Sanitary Corporation	0.1307	3.3	3.64
LA0111236	001	Daneco, Inc.	0.5	20	83.45
LAG750496	002	Redfish Rental of Houma, Inc.	0.005	15.0	0.63
LAG480103	003	Crosstex Lig Liquids, LLC	0.00144	15.0	0.18
LAG480103	004	Crosstex Lig Liquids, LLC	0.00144	15.0	0.18
LAG480134	001	Tetra Technologies, Inc.	0.005	15.0	0.63
LAG480272	002	Smith Int'l Inc.	0.00015	15.0	0.02
LAG480317	002	WFS-Liquids Co	0.0015	15.0	0.19
LAG480563	001	Marine Systems, Inc.	0.0017	15.0	0.21
LAG530072	001	Bellsouth Telecommunications	0.005	15.0	0.63
LAG530268	001	J B Levert Land Company	0.00036	15.0	0.05
LAG530887	001	Sita, Inc.	0.005	15.0	0.63
LAG531154	001	Terrebonne Parish Recreation	0.005	15.0	0.63
LAG531233	001	Williams Field Services Co	0.0025	15.0	0.31
LAG531388	001	Williams Field Svcs Co	0.005	15.0	0.63
LAG531451	001	Earl Cato Apartments	0.0008	15.0	0.10
LAG531469	001	Kiva Construction	0.005	15.0	0.63
LAG531620	001	Circle K #664	0.0009	15.0	0.11
LAG531981	001	Enviro-Lab, Inc.	0.0002	15.0	0.03
LAG532058	001	Terrebonne Parish Communications District	0.0015	15.0	0.19
LAG540525	001	Crestview Mobile Home Park	0.005	15.0	0.63
LAG540726	001	Terrebonne Ph School-Gibson Elem.	0.0013	10.0	0.11
LAG540737	001	Tesi-Midway Sub	0.059923	10.0	5.00
LAG540846	001	C&J Mobile Home Estates	0.025	10.0	2.09
LAG540934	001	McDonald Sanitation Svc, Inc.	0.00144	10.0	0.12
LAG541104	001	McDonald & Robichaux, Inc.	0.00831	10.0	0.69
LAG541158	001	L&B Enterprises of Assumption	0.00126	10.0	0.11
LAG541223	001	Circle G Mobile Home Park	0.025	10.0	2.09
LAG541317	001	Mandalay Manor Trailer Park	0.015	10.0	1.25
LAG560080	001	Harvest Cathedral Ministries	0.02782	6.7	1.55
LAG560135	001	Terrebonne Par Consolidated Govt	0.024960	6.7	1.39
LAG560174	001	Schexnayder Properties, LLC	0.03	6.7	1.67
LAG560175	001	Tesi-Acadian Villa	0.04625	6.7	2.57
LAG560197	001	Terrebonne Par Cons-Gibson Jar	0.03	6.7	1.67
LAG560224	001	Tesi-Country Hollow	0.584	6.7	32.49
LAG570035	001	Lafourche Ph Sewer Dist #4	0.078	3.3	2.17

Table 6-4. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH_3 (mg/l)	NH_3 (lb/d)
LAG570091	001	Thoroughbred Park Subdivision	0.0504	3.3	1.40
LAG570155	001	Lakes of Terrebonne, LLC, The	0.0548	3.3	1.52
LAG570198	001	Tesi- Twelve Cedars Subdivision	0.0384	6.7	2.14
LAG750372	002	Hill City Oil Co, Inc.	0.005	15.0	0.63
LAG750372	003	Hill City Oil Co, Inc.	0.025	10.0	2.09
LAG750372	004	Hill City Oil Co, Inc.	0.025	15.0	3.13

Table 6-5. WLAs for organic nitrogen for subsegment 120202 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	Org N (mg/l)	Org N (lb/d)
LA0042510	002	Lafourche Sugars, LLC FKA A Corp	1.5	1.7	20.86
LA0066486	001	Tesi-Magnolia Park Service	0.22	1.7	3.06
LA0074331	101	Universal Compression, Inc.	0.000282	7.5	0.02
LA0074331	002	Universal Compression, Inc.	0.00016	7.5	0.01
LA0081809	001	Tesi-Plantation/Leighton	0.12	1.7	1.67
LAG480528	002	Hydraulic Well Control, Inc.	0.001	7.5	0.06
LAG480528	003	Hydraulic Well Control, Inc.	0.001	7.5	0.06
LA0095257	001	Service Sanitary Corporation	0.1307	1.7	1.82
LA0111236	001	Daneco, Inc.	0.5	10.0	41.73
LAG750496	002	Redfish Rental of Houma, Inc.	0.005	7.5	0.31
LAG480103	003	Crosstex Lig Liquids, LLC	0.00144	7.5	0.09
LAG480103	004	Crosstex Lig Liquids, LLC	0.00144	7.5	0.09
LAG480134	001	Tetra Technologies, Inc.	0.005	7.5	0.31
LAG480272	002	Smith Int'l Inc.	0.00015	7.5	0.01
LAG480317	002	WFS-Liquids Co	0.0015	7.5	0.09
LAG480563	001	Marine Systems, Inc.	0.0017	7.5	0.11
LAG530072	001	Bellsouth Telecommunications	0.005	7.5	0.31
LAG530268	001	J B Levert Land Company	0.00036	7.5	0.02
LAG530887	001	Sita, Inc.	0.005	7.5	0.31
LAG531154	001	Terrebonne Parish Recreation	0.005	7.5	0.31
LAG531233	001	Williams Field Services Co	0.0025	7.5	0.16
LAG531388	001	Williams Field Svcs Co	0.005	7.5	0.31
LAG531451	001	Earl Cato Apartments	0.0008	7.5	0.05
LAG531469	001	Kiva Construction	0.005	7.5	0.31
LAG531620	001	Circle K #664	0.0009	7.5	0.06
LAG531981	001	Enviro-Lab, Inc.	0.0002	7.5	0.01
LAG532058	001	Terrebonne Parish Communications District	0.0015	7.5	0.09
LAG540525	001	Crestview Mobile Home Park	0.005	7.5	0.31
LAG540726	001	Terrebonne Ph School-Gibson Elem.	0.0013	5.0	0.05
LAG540737	001	Tesi-Midway Sub	0.059923	5.0	2.50
LAG540846	001	C&J Mobile Home Estates	0.025	5.0	1.04
LAG540934	001	McDonald Sanitation Svc, Inc.	0.00144	5.0	0.06
LAG541104	001	McDonald & Robichaux, Inc.	0.00831	5.0	0.35
LAG541158	001	L&B Enterprises of Assumption	0.00126	5.0	0.05
LAG541223	001	Circle G Mobile Home Park	0.025	5.0	1.04
LAG541317	001	Mandalay Manor Trailer Park	0.015	5.0	0.63
LAG560080	001	Harvest Cathedral Ministries	0.02782	3.3	0.77
LAG560135	001	Terrebonne Par Consolidated Govt	0.024960	3.3	0.69
LAG560174	001	Schexnayder Properties, LLC	0.03	3.3	0.83
LAG560175	001	Tesi-Acadian Villa	0.04625	3.3	1.29
LAG560197	001	Terrebonne Par Cons-Gibson Jar	0.03	3.3	0.83

Table 6-5. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	Org N (mg/l)	Org N (lb/d)
LAG560224	001	Tesi-Country Hollow	0.584	3.3	16.25
LAG570035	001	Lafourche Ph Sewer Dist #4	0.078	1.7	1.08
LAG570091	001	Thoroughbred Park Subdivision	0.0504	1.7	0.70
LAG570155	001	Lakes of Terrebonne, LLC, The	0.0548	1.7	0.76
LAG570198	001	Tesi- Twelve Cedars Subdivision	0.0384	3.3	1.07
LAG750372	002	Hill City Oil Co, Inc.	0.005	7.5	0.31
LAG750372	003	Hill City Oil Co, Inc.	0.025	5.0	1.04
LAG750372	004	Hill City Oil Co, Inc.	0.025	7.5	1.56

Table 6-6. WLAs for BOD_5 for subsegment 120204 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD_5 (mg/L)	BOD_5 (lb/d)
LA0043966	001	Village of Napoleonville	0.3	10	25.04
LA0118818	005	Browning Oil Company, Inc.	0.00155	45	0.58
LAG530071	001	Bellsouth Pierre Port-Switching Station	0.0001	45	0.04
LAG531350	001	Pierre Part Store, Inc.	0.00166	45	0.62
LAG531365	001	Ladotd-Pierre Part Bridge	0.00002	45	0.01
LAG531584	001	Assumption Parish Police Jury	0.004	45	1.50
LAG540112	001	Tesi-Seraphim Estates	0.0156	30	3.91
LAG540140	001	Assumption Ph Polic-Violet Str	0.02	30	5.01
LAG540154	001	Worldwide Environmental Solutions-Kingston's	0.018	30	4.51
LAG540155	001	Worldwide Environmental Solutions-Labadie ES	0.0176	30	4.41
LAG541048	001	Heritage Manor of Napoleonvill	0.0202	30	5.06
LAG560026	001	Aucoin's Sewer Util-Bayou Tran	0.044	20	7.34
LAG570240	001	Assumption Parish Police	0.03	10	2.50

Table 6-7. WLAs for ammonia for subsegment 120204 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH_3 (mg/l)	NH_3 (lb/d)
LA0043966	001	Village of Napoleonville	0.3	6.08	15.222
LA0118818	005	Browning Oil Company, Inc.	0.00155	15.0	0.194
LAG530071	001	Bellsouth Pierre Port-Switching Station	0.0001	15.0	0.013
LAG531350	001	Pierre Part Store, Inc.	0.00166	15.0	0.208
LAG531365	001	Ladotd-Pierre Part Bridge	0.00002	15.0	0.003
LAG531584	001	Assumption Parish Police Jury	0.004	15.0	0.501
LAG540112	001	Tesi-Seraphim Estates	0.0156	10.0	1.302
LAG540140	001	Assumption Ph Polic-Violet Str	0.02	10.0	1.669
LAG540154	001	Worldwide Environmental Solutions-Kingston's	0.018	10.0	1.502
LAG540155	001	Worldwide Environmental Solutions-Labadie ES	0.0176	10.0	1.469
LAG541048	001	Heritage Manor of Napoleonvill	0.0202	10.0	1.686
LAG560026	001	Aucoin's Sewer Util-Bayou Tran	0.044	6.7	2.448
LAG570240	001	Assumption Parish Police	0.03	3.3	0.835

Table 6-8. WLAs for organic nitrogen for subsegment 120204 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	Org N (mg/L)	Org N (lb/d)
LA0043966	001	Village of Napoleonville	0.3	3.0	7.6110
LA0118818	005	Browning Oil Company, Inc.	0.00155	7.5	0.0970
LAG530071	001	Bellsouth Pierre Port-Switching Station	0.0001	7.5	0.0063
LAG531350	001	Pierre Part Store, Inc.	0.00166	7.5	0.1039
LAG531365	001	Ladotd-Pierre Part Bridge	0.00002	7.5	0.0013
LAG531584	001	Assumption Parish Police Jury	0.004	7.5	0.2504
LAG540112	001	Tesi-Seraphim Estates	0.0156	5.0	0.6509
LAG540140	001	Assumption Ph Polic-Violet Str	0.02	5.0	0.8345
LAG540154	001	Worldwide Environmental Solutions-Kingston's	0.018	5.0	0.7511
LAG540155	001	Worldwide Environmental Solutions-Labadie ES	0.0176	5.0	0.7344
LAG541048	001	Heritage Manor of Napoleonvill	0.0202	5.0	0.8429
LAG560026	001	Aucoin's Sewer Util-Bayou Tran	0.044	3.3	1.2240
LAG570240	001	Assumption Parish Police	0.03	1.7	0.4173

Table 6-9. WLAs for BOD_5 for subsegment 120304 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD_5 (mg/L)	BOD_5 (lb/d)
LAG480081	001	Baker Atlas	0.0002	45	0.08
LA0089648	008	Bourg Dry Dock & Service Company	0.0005	45	0.19
LA0089648	009	Bourg Dry Dock & Service Company	0.0005	45	0.19
LA0089648	010	Bourg Dry Dock & Service Company	0.0005	45	0.19
LA0096253	001	Bourg Dry Dock & Service Company	0.0002	45	0.08
LA0097195	001	Bourg Dry Dock & Service Company	0.00025	45	0.09
LA0104868	001	Main Iron Works, LLC	0.0003	45	0.11
LA0104868	002A	Main Iron Works, LLC	0.00045	45	0.17
LA0104868	002B	Main Iron Works, LLC	0.00045	45	0.17
LA0104868	003	Main Iron Works, LLC	0.00045	45	0.17
LA0110299	001	PFG Caro	0.01	30	2.50
LA0112267	002	Neff Rental, Inc.	0.00035	45	0.13
LA0112267	003	Neff Rental, Inc.	0.00035	45	0.13
LA0118702	001	Allied Shipyard, Inc.-Larose Facility	0.0002	45	0.08
LA0118702	002	Allied Shipyard, Inc.-Larose Facility	0.0002	45	0.08
LAG110090	002	Huey Stockstill, Inc.-Houma Asphalt Plant Sn 31888	0.005	45	1.88
LAG480216	101	Southern Scrap Recycling-Morgan City, LLC	0.0005	45	0.19
LAG480216	103	Southern Scrap Recycling-Morgan City, LLC	0.0005	45	0.19

Table 6-10. WLAs for ammonia for subsegment 120304 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH_3 (mg/l)	NH_3 (lb/d)
LAG480081	001	Baker Atlas	0.0002	15.0	0.025
LA0089648	008	Bourg Dry Dock & Service Company	0.0005	15.0	0.063
LA0089648	009	Bourg Dry Dock & Service Company	0.0005	15.0	0.063
LA0089648	010	Bourg Dry Dock & Service Company	0.0005	15.0	0.063
LA0096253	001	Bourg Dry Dock & Service Company	0.0002	15.0	0.025
LA0097195	001	Bourg Dry Dock & Service Company	0.00025	15.0	0.031
LA0104868	001	Main Iron Works, LLC	0.0003	15.0	0.038
LA0104868	002A	Main Iron Works, LLC	0.00045	15.0	0.056
LA0104868	002B	Main Iron Works, LLC	0.00045	15.0	0.056
LA0104868	003	Main Iron Works, LLC	0.00045	15.0	0.056
LA0110299	001	PFG Caro	0.01	10.0	0.835

Table 6-10. (continued)

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH_3 (mg/l)	NH_3 (lb/d)
LA0112267	002	Neff Rental, Inc.	0.00035	15.0	0.044
LA0112267	003	Neff Rental, Inc.	0.00035	15.0	0.044
LA0118702	001	Allied Shipyard, Inc.-Larose Facility	0.0002	15.0	0.025
LA0118702	002	Allied Shipyard, Inc.-Larose Facility	0.0002	15.0	0.025
LAG110090	002	Huey Stockstill, Inc.-Houma Asphalt Plant Sn 31888	0.005	15.0	0.626
LAG480216	101	Southern Scrap Recycling-Morgan City, LLC	0.0005	15.0	0.063
LAG480216	103	Southern Scrap Recycling-Morgan City, LLC	0.0005	15.0	0.063

Table 6-11. WLAs for organic nitrogen for subsegment 120304 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	Org N (mg/L)	Org N (lb/d)
LAG480081	001	Baker Atlas	0.0002	7.5	0.013
LA0089648	008	Bourg Dry Dock & Service Company	0.0005	7.5	0.031
LA0089648	009	Bourg Dry Dock & Service Company	0.0005	7.5	0.031
LA0089648	010	Bourg Dry Dock & Service Company	0.0005	7.5	0.031
LA0096253	001	Bourg Dry Dock & Service Company	0.0002	7.5	0.013
LA0097195	001	Bourg Dry Dock & Service Company	0.00025	7.5	0.016
LA0104868	001	Main Iron Works, LLC	0.0003	7.5	0.019
LA0104868	002A	Main Iron Works, LLC	0.00045	7.5	0.028
LA0104868	002B	Main Iron Works, LLC	0.00045	7.5	0.028
LA0104868	003	Main Iron Works, LLC	0.00045	7.5	0.028
LA0110299	001	PFG Caro	0.01	5.0	0.417
LA0112267	002	Neff Rental, Inc.	0.00035	7.5	0.022
LA0112267	003	Neff Rental, Inc.	0.00035	7.5	0.022
LA0118702	001	Allied Shipyard, Inc.-Larose Facility	0.0002	7.5	0.013
LA0118702	002	Allied Shipyard, Inc.-Larose Facility	0.0002	7.5	0.013
LAG110090	002	Huey Stockstill, Inc.-Houma Asphalt Plant Sn 31888	0.005	7.5	0.313
LAG480216	101	Southern Scrap Recycling-Morgan City, LLC	0.0005	7.5	0.031
LAG480216	103	Southern Scrap Recycling-Morgan City, LLC	0.0005	7.5	0.031

Table 6-12. WLAs for BOD_5 for subsegment 120403 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD_5 (mg/L)	BOD_5 (lb/d)
LA0107247	001	Global X-ray & Testing Corp	0.00012	45	0.05
LA0107247	002	Global X-ray & Testing Corp	0.00006	45	0.02
LAG480218	002	Southern Scrap Recycling Morgan City LLC	0.0015	45	0.56
LAG480218	101	Southern Scrap Recycling Morgan City LLC	0.05	45	18.78
LAG480257	002	PHI Inc	0.005	45	1.88
LAG480270	002	Chet Morrison General Contractor Inc-Houma Facility	0.0005	45	0.19
LAG480270	003	Chet Morrison General Contractor Inc-Houma Facility	0.0005	45	0.19
LAG480270	004	Chet Morrison General Contractor Inc-Houma Facility	0.0005	45	0.19
LAG480317	002	WFA Liquids Company-Bayou Black Treatment Plant	0.0015	45	0.56

Table 6-13. WLAs for ammonia for subsegment 120403 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH_3 (mg/l)	NH_3 (lb/d)
LA0107247	001	Global X-ray & Testing Corp	0.00012	15.0	0.015
LA0107247	002	Global X-ray & Testing Corp	0.00006	15.0	0.008
LAG480218	002	Southern Scrap Recycling Morgan City LLC	0.0015	15.0	0.188
LAG480218	101	Southern Scrap Recycling Morgan City LLC	0.05	15.0	6.259
LAG480257	002	PHI Inc	0.005	15.0	0.626
LAG480270	002	Chet Morrison General Contractor Inc-Houma Facility	0.0005	15.0	0.063
LAG480270	003	Chet Morrison General Contractor Inc-Houma Facility	0.0005	15.0	0.063
LAG480270	004	Chet Morrison General Contractor Inc-Houma Facility	0.0005	15.0	0.063
LAG480317	002	WFA Liquids Company-Bayou Black Treatment Plant	0.0015	15.0	0.188

Table 6-14. WLAs for organic nitrogen for subsegment 120403 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	Org N (mg/L)	Org N (lb/d)
LA0107247	001	Global X-ray & Testing Corp	0.00012	7.5	0.008
LA0107247	002	Global X-ray & Testing Corp	0.00006	7.5	0.004
LAG480218	002	Southern Scrap Recycling Morgan City LLC	0.0015	7.5	0.094
LAG480218	101	Southern Scrap Recycling Morgan City LLC	0.05	7.5	3.130
LAG480257	002	PHI Inc	0.005	7.5	0.313
LAG480270	002	Chet Morrison General Contractor Inc-Houma Facility	0.0005	7.5	0.031
LAG480270	003	Chet Morrison General Contractor Inc-Houma Facility	0.0005	7.5	0.031
LAG480270	004	Chet Morrison General Contractor Inc-Houma Facility	0.0005	7.5	0.031
LAG480317	002	WFA Liquids Company-Bayou Black Treatment Plant	0.0015	7.5	0.094

Table 6-15. WLAs for BOD_5 for subsegment 120604 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	BOD_5 (mg/L)	BOD_5 (lb/d)
LA0084077	001	Bollinger Larose, LLC	0.0005	45	0.19
LA0084077	002	Bollinger Larose, LLC	0.0005	45	0.19
LA0084077	004	Bollinger Larose, LLC	0.005	45	1.88
LAG541539	008	Bollinger Larose, LLC	0.007	45	2.63
LAG530324	001	Lafourche Telephone Co	0.005	45	1.88
LAG531493	001	Lebouef Trailer Park	0.005	45	1.88
LAG532034	001	Chiasson Welding Service	0.001	45	0.38
LAG540624	001	Rousse Land Development-Bon Service Shopping Center	0.025	30	6.26

Table 6-16. WLAs for ammonia for subsegment 120604 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	NH_3 (mg/l)	NH_3 (lb/d)
LA0084077	001	Bollinger Larose, LLC	0.0005	15.0	0.06
LA0084077	002	Bollinger Larose, LLC	0.0005	15.0	0.06
LA0084077	004	Bollinger Larose, LLC	0.005	15.0	0.63
LAG541539	008	Bollinger Larose, LLC	0.007	15.0	0.88
LAG530324	001	Lafourche Telephone Co	0.005	15.0	0.63
LAG531493	001	Lebouef Trailer Park	0.005	15.0	0.63
LAG532034	001	Chiasson Welding Service	0.001	15.0	0.13
LAG540624	001	Rousse Land Development-Bon Service Shopping Center	0.025	10.0	2.09

Table 6-17. WLAs for organic nitrogen for subsegment 120604 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Flow (mgd)	Org N (mg/L)	Org N (lb/d)
LA0084077	001	Bollinger Larose, LLC	0.0005	7.5	0.03
LA0084077	002	Bollinger Larose, LLC	0.0005	7.5	0.03
LA0084077	004	Bollinger Larose, LLC	0.005	7.5	0.31
LAG541539	008	Bollinger Larose, LLC	0.007	7.5	0.44
LAG530324	001	Lafourche Telephone Co	0.005	7.5	0.31
LAG531493	001	Lebouef Trailer Park	0.005	7.5	0.31
LAG532034	001	Chiasson Welding Service	0.001	7.5	0.06
LAG540624	001	Rousse Land Development-Bon Service Shopping Center	0.025	5.0	1.04

Table 6-18. Summary of WLAs for MS4s the middle Terrebonne Basin

Subsegment	Urban Area	NPDES permit number	MS4 area (acres)	Pollutant	MS4 (lb/d)
120202	Terrebonne Parish	LAR041023	7,461.88	BOD_u	1,236.1
120202	Terrebonne Parish	LAR041023	7,461.88	Organic nitrogen	171.0
120202	Terrebonne Parish	LAR041023	7,461.88	Ammonia	27.5
120202	Terrebonne Parish	LAR041023	7,461.88	SOD	780.1
120304	Terrebonne Parish	LAR041023	188.35	BOD_u	8,594.1
120304	Terrebonne Parish	LAR041023	188.35	Organic nitrogen	374.7
120304	Terrebonne Parish	LAR041023	188.35	Ammonia	18.4
120304	Terrebonne Parish	LAR041023	188.35	SOD	619.8
120403	Terrebonne Parish	LAR041023	657.49	BOD_u	1,895.1
120403	Terrebonne Parish	LAR041023	657.49	Organic nitrogen	217.3
120403	Terrebonne Parish	LAR041023	657.49	Ammonia	10.6
120403	Terrebonne Parish	LAR041023	657.49	SOD	696.3
120403	Morgan City	LAR041028	346.22	BOD_u	997.9
120403	Morgan City	LAR041028	346.22	Organic nitrogen	114.4
120403	Morgan City	LAR041028	346.22	Ammonia	5.6
120403	Morgan City	LAR041028	346.22	SOD	366.7
120204	Assumption Parish Police Jury	LAR041039	1,261.17	BOD_u	17,514.5
120204	Assumption Parish Police Jury	LAR041039	1,261.17	Organic nitrogen	383.9
120204	Assumption Parish Police Jury	LAR041039	1,261.17	Ammonia	13.4
120204	Assumption Parish Police Jury	LAR041039	1,261.17	SOD	5,259.6

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 6-19. Result plots are shown in Appendix K. 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 6-19. 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
120202	-30%	0.51	0.36	0.36	0.36	0.36	0.25	1.49	1.49	1.49	1.49	1.49	1.49
	base	0.36	0.36	0.36	0.36	0.36	0.36	1.49	1.49	1.49	1.49	1.49	1.49
	30%	0.28	0.36	0.36	0.36	0.36	0.47	1.49	1.49	1.49	1.49	1.49	1.49
120204	-30%	20.31	13.61	13.74	13.61	13.61	9.20	3.87	3.55	3.55	2.69	4.00	3.69
	base	13.61	13.61	13.61	13.61	13.61	13.61	3.55	3.55	3.55	3.55	3.55	3.55
	30%	10.20	13.61	13.49	13.61	13.61	18.69	1.87	3.55	3.55	3.69	2.66	1.59
120304 and 120403	-30%	3.17	2.24	2.24	2.24	2.24	1.58	3.41	3.05	3.05	1.69	3.84	3.97
	base	2.24	2.24	2.24	2.24	2.24	2.24	3.05	3.05	3.05	3.05	3.05	3.05
	30%	1.73	2.24	2.24	2.24	2.24	2.89	2.83	3.05	3.05	3.76	2.26	1.44
120604	-30%	4.69	4.69	4.69	4.69	4.69	4.69	1.68	1.68	1.68	1.68	1.68	1.68
	base	4.69	4.69	4.69	4.69	4.69	4.69	1.68	1.68	1.68	1.68	1.68	1.68
	30%	4.69	4.69	4.69	4.69	4.69	4.69	1.68	1.68	1.68	1.68	1.68	1.68

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 6-20. 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 L.

Table 6-20. Predicted ammonia concentration and calculated critical criteria

Subsegment	Predicted ammonia (mg/L)		Calculated critical criteria (mg/L)	
	Minimum	Maximum	Minimum	Maximum
120202	0.06	0.25	0.58	1.79
120204	0.06	0.12	0.12	1.59
120304	0.03	0.13	1.63	1.66
120403	0.07	0.12	0.47	1.93
120604	0.04	0.11	1.53	1.61

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 6-12 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.

Table 6-12. 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
120206	Grand Bayou and Little Grand Bayou	82	0.52	0.37	1.39	1.76	3.38
120509	Houma Navigation Canal	343	0.14	0.47	0.79	1.26	9.00
		942	0.15	0.43	0.84	1.27	8.47
120601	Bayou Terrebonne	943	0.16	0.27	0.88	1.15	7.19
		Minimum	0.14	0.16	0.79	1.15	8.21
		Mean	0.22	0.34	1.01	1.35	6.14
		Maximum	0.52	0.47	1.39	1.76	3.38

The data in Table 6-12 were compared with the observed data for the nutrient-impaired subsegments in Table 6-13. 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 6-13.

Table 6-13. Nutrient concentrations in the impaired subsegments in the middle 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
120202	Bayou Black	0.17	0.20	0.89	1.05	6.18
120204	Lake Verret and Grassy Lake	0.22	0.09	1.36	1.32	6.00

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 yields for the Southeast and South-central Climate Divisions were 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 (Table 6-14).

Table 6-14. Average water yields for climate divisions in the Terrebonne Basin

Climate division	Yearly average monthly water yield (millimeters)	Subsegments represented
Southeast	2.402	120202, 120304
South-central	2.378	120204

The nutrient TMDLs are presented in Table 6-15. 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 6-15. Summary of TMDLs for nutrients in the middle Terrebonne Basin

Subsegment	∑ WLA (lb/d)	∑ LA (lb/d)	MOS	FG (10%) (lb/d)	Total allowable loading (lb/d)	Percent reduction
Total phosphorus						
120202	0.00	0.57	Implicit	0.06	0.64	0.00
120204	0.00	0.69	Implicit	0.08	0.76	0.00
120304	0.00	0.02	Implicit	0.00	0.03	0.00
Total nitrogen						
120202	0.00	3.51	Implicit	0.39	3.90	0.00
120204	0.00	4.21	Implicit	0.47	4.68	0.00
120304	0.00	0.14	Implicit	0.02	0.16	0.00

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.

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APPENDIX A:
POINT SOURCE DISCHARGE INFORMATION FOR THE MIDDLE TERREBONNE BASIN

Table A-1. Point source discharge information for BOD_5 for subsegment 120202 in the middle Terrebonne Basin 2
Table A-2. Point source discharge information for DO for subsegment 120202 in the middle Terrebonne Basin 5
Table A-3. Point source discharge information for ammonia for subsegment 120202 in the middle Terrebonne Basin 5
Table A-4. Point source discharge information for BOD_5 for subsegment 120204 in the middle Terrebonne Basin 5
Table A-5. Point source discharge information for ammonia for subsegment 120204 in the middle Terrebonne Basin 6
Table A-6. Point source discharge information for BOD_5 for subsegment 120304 in the middle Terrebonne Basin 6
Table A-7. Point source discharge information for BOD_5 for subsegment 120403 in the middle Terrebonne Basin 8
Table A-8. Point source discharge information for BOD_5 for subsegment 120604 in the middle Terrebonne Basin 9

Table A-1. Point source discharge information for BOD_5 for subsegment 120202 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD_5 (mg/L)
LA0042510	002	Lafourche Sugars, LLC FKA A Corp	141 Leighton Quarters Rd; Thibodaux	Bayou Black	1.5 (average)	10 (monthly ave) 15 (daily max)
LA0066486	001	Tesi-Magnolia Park Service	West Bypass Rd; Thibodaux	Bayou Tregre, Terrebonne Lafourche Drainage Canal	0.22 (average)	10 (monthly ave) 15 (weekly ave)
LA0074331	101	Universal Compression, Inc.	120 Cannon Dr.; Houma	Little Black Bayou	0.000282 (average)	45 (weekly ave)
LA0074331	002	Universal Compression, Inc.	120 Cannon Dr.; Houma	Little Black Bayou	0.00016 (average)	45 (weekly ave)
LA0081809	001	Tesi-Plantation/ Leighton	Leighton St; Thibodaux	Terrebonne/ Lafourche Drain Canal	0.12 (average)	10 (monthly ave) 15 (weekly ave)
LAG480528	002	Hydraulic Well Control, Inc.	116 Venture Blvd; Houma	Intracoastal Waterway (ICWW)	0.001 (average)	45 (weekly ave)
LAG480528	003	Hydraulic Well Control, Inc.	116 Venture Blvd; Houma	local drain-B Black-ICWW	0.001 (average)	45 (weekly ave)
LA0095257	001	Service Sanitary Corporation	1851 Hwy 1; Thibodaux	Terrebonne-Lafourche Drainage Canal	0.1307 (average)	10 (monthly ave) 15 (weekly ave)
LA0111236	001	Daneco, Inc.	130 Daneco Ct; Houma	drainage-Hanson Canal-ICWW	0.5 (average)	25 (monthly ave) 40 (daily max)
LAG750496	002	Redfish Rental of Houma, Inc.	3061 Little Bayou Black Dr.; Houma	ditch-Little Bayou Black	0.005 (permit max)	45 (weekly ave)
LAG480103	003	Crosstex Lig Liquids, LLC	5609 Bayou Black Rd; Gibson	Bayou Black	0.00144 (average)	45 (weekly ave)
LAG480103	004	Crosstex Lig Liquids, LLC	5609 Bayou Black Rd; Gibson	Bayou Black	0.00144 (average)	45 (weekly ave)
LAG480134	001	Tetra Technologies, Inc.	103 Capital Blvd; Houma	drainage-Little Black Bayou	0.005 (permit max)	45 (weekly ave)
LAG480272	002	Smith Int'l Inc.	222 Venture Blvd; Houma	ditch-Hansen Canal-Bayou Black	0.00015 (average)	45 (weekly ave)
LAG480317	002	WFS-Liquids Co	4711-A Bayou Black Dr; Gibson	Hanson Canal, Bayou Black	0.0015 (average)	45 (weekly ave)
LAG480563	001	Marine Systems, Inc.	116 Capital Blvd; Houma	Bayou Black	0.0017 (average)	45 (weekly ave)
LAG530072	001	Bellsouth Telecommunications	1429 Tiger Dr; Thibodaux	Bayou Black	0.005 (permit max)	45 (weekly ave)

Table A-1. (continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD_5 (mg/L)
LAG530268	001	J B Levert Land Company	Hwy 308; Thibodaux	Bayou Lafourche	0.00036 (average) 0.005 (permit max)	45 (weekly ave)
LAG530887	001	Sita, Inc.	1717 St Mary St; Thibodaux	Bayou Lafourche	0.005 (permit max)	45 (weekly ave)
LAG531154	001	Terrebonne Parish Recreation	5575 Bayou Black Dr; Gibson	Bayou Blue	0.005 (permit max)	45 (weekly ave)
LAG531233	001	Williams Field Services Co	144 Horseshoe Rd; Schriever	Bayou Terrebonne	0.0025 (permit max)	45 (weekly ave)
LAG531388	001	Williams Field Svcs Co	4711 Bayou Black Dr; Gibson	Hanson Canal, Bayou Black	0.005 (permit max)	45 (weekly ave)
LAG531451	001	Earl Cato Apartments	136-138 Brunet St; Schriever	Little Bayou Black	0.0008 (average)	45 (weekly ave)
LAG531469	001	Kiva Construction	186 Zimmer Rd; Gibson	Bayou Black	0.005 (permit max)	45 (weekly ave)
LAG531620	001	Circle K #664	292 W Main St; Thibodaux	Terrebonne Lafourche Drainage Canal	0.0009 (average)	45 (weekly ave)
LAG531981	001	Enviro-Lab, Inc.	5527 Hwy 311; Houma	Little Bayou Black	0.0002 (permit max)	45 (weekly ave)
LAG532058	001	Terrebonne Parish Communications District	112 Capital Blvd; Houma	Hanson Canal, Big Bayou Black	0.0015 (average)	45 (weekly ave)
LAG540525	001	Crestview Mobile Home Park	415 LA Hwy 20; Schriever	ditch-drainage canal-Bayou Black	0.005 (permit max)	45 (weekly ave)
LAG540726	001	Terrebonne Ph School-Gibson Elem.	6357 S Bayou Black Dr; Gibson	Big Bayou Black	0.0013 (average) 0.025 (permit max)	30 (monthly ave) 45 (weekly ave)
LAG540737	001	Tesi-Midway Sub	5 Mi N Hwy 1; Thibodaux	Terrebonne-Lafourche Drainage Canal	0.05992 (average) 0.025 (permit max)	30 (monthly ave) 45 (weekly ave)
LAG540846	001	C&J Mobile Home Estates	6062 North Bayou Black Dr; Gibson	Tiger Bayou - Bayou Black - ICWW	0.025 (permit max)	30 (monthly ave) 45 (weekly ave)
LAG540934	001	Mcdonald Sanitation Svc Inc	1132 Hwy 3185; Thibodaux	Terrebonne Lafourche Drainage Canal	0.00144 (average) 0.025 (permit max)	30 (monthly ave) 45 (weekly ave)
LAG541104	001	McDonald & Robichaux, Inc.	1809 Hwy 3185; Thibodaux	Terrebonne Lafourche Drainage Canal	0.00831 (average)	30 (monthly ave) 45 (weekly ave)

Table A-1. (continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD_5 (mg/L)
LAG541158	001	L&B Enterprises of Assumption	458 S Holly Rd; Labadieville	Bayou Black	0.00126 (average) 0.025 (permit max)	30 (monthly ave) 45 (weekly ave)
LAG541223	001	Circle G Mobile Home Park	1825 Bull Run Rd; Schriever	Bayou Black	0.025 (permit max)	30 (monthly ave) 45 (weekly ave)
LAG541317	001	Mandalay Manor Trailer Park	End of Linda Lee Ct; Houma	Hanson Canal, Bayou Blue	0.015 (permit max)	30 (monthly ave) 45 (weekly ave)
LAG560080	001	Harvest Cathedral Ministries	6045 Bayou Black Dr; Gibson	Bayou Black	0.02782 (average) 0.05 (permit max)	20 (monthly ave) 30 (weekly ave)
LAG560135	001	Terrebonne Par Consolidated Govt	Hwy 311, 1.5 M W of Hwy 24; Levytown	Ditch-Ouiski Bayou	0.0249602 5 (average) 0.05 (permit max)	20 (monthly ave) 30 (weekly ave)
LAG560174	001	Schexnayder Properties, LLC	5571 Bayou Black Dr; Gibson	Ditch-Swamp-Shell Canal-ICWW	0.03 (permit max)	20 (monthly ave) 30 (weekly ave)
LAG560175	001	Tesi-Acadian Villa	311 Gloria St; Thibodaux	Terrebonne/ Lafourche Drainage Canal	0.04625 (average)	20 (monthly ave) 30 (weekly ave)
LAG560197	001	Terrebonne Par Cons-Gibson Jar	Jarvis St N of Parish Rd #15; Gibson	Bayou Black	0.03 (average)	20 (monthly ave) 30 (weekly ave)
LAG560224	001	Tesi-Country Hollow	Main Project Rd & Bunny Ln; Schriever	Bayou Black	0.584 (average)	20 (monthly ave) 30 (weekly ave)
LAG570035	001	Lafourche Ph Sewer Dist #4	115 Ridgeway Dr; Thibodaux	Canal-Terrebonne/ Lafourche-Bay Black	0.078 (average)	10 (monthly ave) 15 (weekly ave)
LAG570091	001	Thoroughbred Park Subdivision	Hwy 1; Thibodaux	B Cutoff Company Canal-ICWW	0.0504 (average)	10 (monthly ave) 15 (weekly ave)
LAG570155	001	Lakes of Terrebonne, LLC, The	LA Hwy 311; Houma	Bayou Black	0.0548 (average)	10 (monthly ave) 15 (weekly ave)
LAG570198	001	Tesi- Twelve Cedars Subdivision	LA Hwy 308; Thibodaux	Arpent Canal, Grabd Bayou, Bayou Boeuf	0.0384 (average)	20 (monthly ave) 30 (weekly ave)
LAG750372	002	Hill City Oil Co, Inc.	Hwy 20 & Main Proj Rd; Schriever	Bayou Black	0.005 (permit max)	45 (weekly ave)
LAG750372	003	Hill City Oil Co, Inc.	Hwy 20 & Main Proj Rd; Schriever	Bayou Black	0.025 (permit max)	30 (monthly ave) 45 (weekly ave)
LAG750372	004	Hill City Oil Co, Inc.	Hwy 20 & Main Proj Rd; Schriever	Bayou Black	0.025 (permit max)	45 (daily max)

Table A-2. Point source discharge information for DO for subsegment 120202 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	DO (mg/l)
LA0042510	002	Lafourche Sugars, LLC FKA A Corp	141 Leighton Quarters Rd; Thibodaux	Bayou Black	1.5 (average)	4 (monthly ave) 3 (daily max)

Table A-3. Point source discharge information for ammonia for subsegment 120202 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	NH3 (mg/l)
LA0111236	001	Daneco, Inc.	130 Daneco Ct; Houma	drainage-Hanson Canal-ICWW	0.5 (average)	20 (monthly ave) 30 (daily max)

Table A-4. Point source discharge information for BOD_5 for subsegment 120204 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD_5 (mg/L)
LA0043966	001	Village of Napoleonville	800 Martin Luther King Dr; Napoleonville	ditch-Godchaux Drainage Canal-Lake Verret	0.3 (average)	10 (monthly ave) 15 (weekly ave)
LA0118818	005.	Browning Oil Company, Inc.	9 Mi Sw of Napoleonville	Lake Verret	0.00155 (average)	45 (weekly ave)
LAG530071	001	Bellsouth Pierre Port-Switching Station	off Hwy 70-End of Curtis St; Pierre Part	ditch-Bayou Gros Bec-Pierre Bayou	0.0001(average)	45 (weekly ave)
LAG531350	001	Pierre Part Store, Inc.	3421 Hwy 70; Pierre Part	Pierre Bay	0.00166 (average)	45 (weekly ave)
LAG531365	001	LA DOTD-Pierre Part Bridge	3266 Hwy 70 S; Pierre Part	Pierre Part Bay	0.00002 (average)	45 (weekly ave)
LAG531584	001	Assumption Parish Police Jury	LA Hwy 400; Napoleonville	Lake Verret	0.004 (average)	45 (weekly ave)
LAG540112	001	Tesi-Seraphim Estates	3948 Hwy 1; Napoleonville	Cancienne Canal-Lake Verret	0.0156 (average)	30 (monthly ave) 45 (daily max)

Table A-4. (continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD_5 (mg/L)
LAG540140	001	Assumption Ph Police-Violet Str	Hwy 308; Labadieville	Bayou Verret	0.02 (average)	30 (monthly ave) 45 (daily max)
LAG540154	001	Worldwide Environmental Solutions-Kingston's	Hwy 1; Labadieville	unnamed ditch-Grassy Lake	0.018 (average)	30 (monthly ave) 45 (daily max)
LAG540155	001	Worldwide Environmental Solutions - Labadie ES	Hwy 389; Labadieville	unnamed ditch-Grassy Lake	0.0176 (average)	30 (monthly ave) 45 (daily max)
LAG541048	001	Heritage Manor of Napoleonville	252 Hwy 402; Napoleonville	Lake Verret	0.0202 (average)	30 (monthly ave) 45 (daily max)
LAG560026	001	Aucoin's Sewer Util-Bayou Tran	Belle River, off Hwy 70	Lake Verret	0.044 (average)	20 (monthly ave) 30 (daily max)
LAG570240	001	Assumption Ph Police	Georgette St; Labadieville	Marias Canal-Bayou Lafourche-Gulf of Mexico	0.03 (average)	10 (monthly ave) 15 (daily max)

Table A-5. Point source discharge information for ammonia for subsegment 120204 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	NH3 (mg/l)
LA0043966	001	Village of Napoleonville	800 Martin Luther King Dr; Napoleonville	ditch-Godchaux Drainage Canal-Lake Verret	0.3 (average)	6.08 (monthly ave) 12.15 (daily max)

Table A-6. Point source discharge information for BOD_5 for subsegment 120304 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD_5 (mg/L)
LAG480081	001	Baker Atlas	2137 Bayou Blue Rd; Houma	ICWW	0.0002 (average)	45 (weekly ave)
LA0089648	008	Bourg Dry Dock & Service Company	136 Dry Dock Rd; Bourg	ICWW	0.0005 (average)	45 (weekly ave)
LA0089648	009	Bourg Dry Dock & Service Company	136 Dry Dock Rd; Bourg	ICWW	0.0005 (average)	45 (weekly ave)
LA0089648	010	Bourg Dry Dock & Service Company	136 Dry Dock Rd; Bourg	ICWW	0.0005 (average)	45 (weekly ave)

Table A-6. (continued)

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD_5 (mg/L)
LA0096253	001	Bourg Dry Dock & Service Company	1097 E Hwy 182 ; Houma	Intracoastal Canal	0.0002 (average)	45 (weekly ave)
LA0097195	001	Bourg Dry Dock & Service Company	410 South Van Ave; Houma	ICWW	0.00025 (average)	45 (weekly ave)
LA0104868	001	Main Iron Works, LLC	148 Old Ferry Rd; Houma	ICWW	0.0003 (average)	45 (weekly ave)
LA0104868	002A	Main Iron Works, LLC	148 Old Ferry Rd; Houma	ICWW	0.00045 (average)	45 (weekly ave)
LA0104868	002B	Main Iron Works, LLC	148 Old Ferry Rd; Houma	ICWW	0.00045 (average)	45 (weekly ave)
LA0104868	003	Main Iron Works, LLC	148 Old Ferry Rd; Houma	ICWW	0.00045 (average)	45 (weekly ave)
LA0110299	001	PFG Caro	2324 Bayou Blue Rd; Houma	Hollywood Canal	0.01 (permit max)	30 (monthly ave) 45 (weekly ave)
LA0112267	002	Neff Rental, Inc.	390 S Van Ave; Houma	ICWW	0.00035 (average)	45 (weekly ave)
LA0112267	003	Neff Rental, Inc.	390 S Van Ave; Houma	ICWW	0.00035 (average)	45 (weekly ave)
LA0118702	001	Allied Shipyard, Inc.-Larose Facility	310 Ledet Ln; Larose	ICWW	0.0002 (average)	45 (weekly ave)
LA0118702	002	Allied Shipyard, Inc.-Larose Facility	310 Ledet Ln; Larose	ICWW	0.0002 (average)	45 (weekly ave)
LAG110090	002	Huey Stockstill, Inc.-Houma Asphalt Plant Sn 31888	1149 Coteau Rd; Houma	ICWW	0.005 (permit max)	45 (weekly ave)
LAG480216	101	Southern Scrap Recycling-Morgan City, LLC	838 Hwy 182; Houma	ICWW	0.0005 (average)	45 (weekly ave)
LAG480216	103	Southern Scrap Recycling-Morgan City, LLC	838 Hwy 182; Houma	ICWW	0.0005 (average)	45 (weekly ave)

Table A-7. Point source discharge information for BOD_5 for subsegment 120403 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD_5 (mg/L)
LA0107247	001	Global Xray & Testing Corp	Hwy 90 E; Amelia	Bayou Boeuf	0.00012 (average)	45 (weekly ave)
LA0107247	002	Global Xray & Testing Corp	Hwy 90 E; Amelia	Bayou Boeuf	0.00006 (average)	45 (weekly ave)
LAG480218	002	Southern Scrap Recycling Morgan City, LLC	222 S. Railroad Str.; Morgan City	ditch-Bayou Boeuf	0.0015 (average) 0.05 (permit max)	45 (weekly ave)
LAG480218	101	Southern Scrap Recycling Morgan City, LLC	222 S. Railroad Str.; Morgan City	ditch-Bayou Boeuf	0.05 (permit max)	45 (weekly ave)
LAG480257	002	PHI, Inc.	Leeville Field; Fourchon City	Pass Fourchon	0.005 (permit max)	45 (weekly ave)
LAG480270	002	Chet Morrison General Contractor, Inc.-Houma Facility	Bayou Dularge Rd; Houma	ICWW	0.0005 (average)	45 (weekly ave)
LAG480270	003	Chet Morrison General Contractor, Inc.-Houma Facility	Bayou Dularge Rd; Houma	ICWW	0.0005 (average)	45 (weekly ave)
LAG480270	004	Chet Morrison General Contractor, Inc.-Houma Facility	Bayou Dularge Rd; Houma	ICWW	0.0005 (average)	45 (weekly ave)
LAG480317	002	WFA Liquids Company-Bayou Black Treatment Plant	4711 Bayou Black Dr; Gibson	ICWW	0.0015 (average)	45 (weekly ave)

Table A-8. Point source discharge information for BOD_5 for subsegment 120604 in the middle Terrebonne Basin

NPDES permit number	Outfall	Facility name	Location	Receiving water	Flow (mgd)	BOD_5 (mg/L)
LA0084077	001	Bollinger Larose, LLC	1515 Hwy 24; Larose	ICWW	0.0005 (average)	45 (weekly ave)
LA0084077	002	Bollinger Larose, LLC	1515 Hwy 24; Larose	ICWW	0.0005 (average)	45 (weekly ave)
LA0084077	004	Bollinger Larose, LLC	1515 Hwy 24; Larose	ICWW	0.005 (average)	45 (weekly ave)
LAG541539	008	Bollinger Larose, LLC	1515 Hwy 24; Larose	ICWW	0.007 (average)	45 (weekly ave)
LAG530324	001	Lafourche Telephone Co	112 W Tenth St; Larose, Lafourche Parish	unnamed ditch to unnamed canal	0.005 (permit max)	45 (weekly ave)
LAG531493	001	Lebouef Trailer Park	100 T John Court; Houma	Bayou Blue to Bayou Lafourche	0.005 (permit max)	45 (weekly ave)
LAG532034	001	Chiasson Welding Service	116 W 35 St; Cut off	Blue Canal to ICWW	0.001 (average)	45 (weekly ave)
LAG540624	001	Rousse Land Development-Bon Service Shopping Center	LA Hwy 1; Larose, Lafourche Parish	Grand Bayou Canal to Blue Canal	0.025 (permit max)	30 (monthly ave) 45 (weekly ave)

APPENDIX B:
MONITORING DATA TABLES AND PLOTS

Tables

Table B-1. In situ data collected during the July 2006 sampling event 2
Table B-2. Water quality data from July 2006..... 3
Table B-3. CBOD monitoring results from July 2006 sampling event..... 4
Table B-4. Summary of Acoustic Doppler Current Profiler data for 120202-A, 114, and 339..... 4
Table B-5. Summary of Acoustic Doppler Current Profiler data for 120204-A, 120204-D, 120204-G 5
Table B-6. Summary of Acoustic Doppler Current Profiler data for 120204-H, 120204-I..... 5
Table B-7. Summary of Acoustic Doppler Current Profiler data for 120304-A 5
Table B-8. Summary of Acoustic Doppler Current Profiler data for 120403-A, 120403-B, and 120403-C 6
Table B-9. Summary of Acoustic Doppler Current Profiler data for 120403-D 6
Table B-10. Summary of Acoustic Doppler Current Profiler data for 120403-E, 120403-F, 120403-H, and 120403-J..... 6
Table B-11. Summary of Acoustic Doppler Current Profiler data for 945..... 7
Table B-12. Available total nitrite+nitrate data for the middle Terrebonne Basin 7
Table B-13. Available total Kejldahl nitrogen data for the middle Terrebonne Basin 7
Table B-14. Available total phosphorus data for the middle Terrebonne Basin..... 8

Figures

Figure B-1. Continuous monitoring data observed at Bayou Black at Gibson, LA (LDEQ 114). 8
Figure B-2. Continuous monitoring data observed at Lake Verret at Attakapas Landing near Georgia (LDEQ 144). 9
Figure B-3. Continuous temperature for middle Terrebonne Basin at station 114. 9
Figure B-4. Continuous specific conductivity for middle Terrebonne Basin at station 114..... 10
Figure B-5. Continuous pH for middle Terrebonne Basin at station 114. 10
Figure B-6. Continuous temperature for middle Terrebonne at station 144. 11
Figure B-7. Continuous specific conductivity for middle Terrebonne at station 144..... 11
Figure B-8. Continuous pH for middle Terrebonne Basin at station 144. 12

Table B-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.)
120202	114	Bayou Black at Gibson, LA	7/18/06	1640	3	34.2	10.5	417	8.5
					6	31.5	6.7	421	7.9
	339	Bayou Black west of Houma, LA	7/20/06	1347	2	31.4	4.0	392	7.1
	120202-A	Terrebonne-Lafourche Drainage Canal near Greenwood, LA	7/18/06	1752	3	29.7	2.7	263	7.0
					5	29.1	2.1	252	7.1
					9	28.9	1.8	252	7.0
	120202-B	Bayou Black near Oak Forest, LA	7/19/06	1650	3	32.5	6.5	420	7.5
					5	31.8	5.0	420	7.3
	120202-C	Bayou Black near Humphreys, LA	7/19/06	1732	3	32.1	6.7	388	7.2
					5	30.6	2.7	380	7.1
120204	144	Lake Verret at Attakapas Landing near Georgia, LA	7/19/06	750	2	31.7	9.4	340	9.3
	145	Lake Verret near Pierre Part, LA	7/19/06	1011	3	31.2	8.3	359	9.1
					6	30.8	4.9	362	8.9
	120204-A	Bayou Pierre Part near Pierre Part, LA	7/19/06	855	3	30.9	4.6	420	7.5
					8	30.7	4.2	418	7.4
	120204-B	Lake Verret west of Station 145	7/19/06	1020	3	31.0	7.9	374	9.0
					6	30.8	5.2	375	8.8
	120204-C	Lake Verret east of Station 145	7/19/06	957	3	31.3	9.1	351	9.2
					6	31.0	7.1	353	9.0
	120204-D	Godchaux Canal near Lake Verret	7/19/06	930	2	31.9	2.4	572	7.1
	120204-E	Godchaux Canal near Napoleonville	7/19/06	1505	0.4	33.0	3.0	622	7.5
	120204-F	Lake Verret south of Attakapas Landing	7/19/06	1405	2	31.8	7.9	326	9.1
					1.5	32.2	10.1	329	9.2
	120204-G	Bayou Magazille	7/19/06	1336	3	32.7	12.4	414	8.8
					9	31.5	6.5	428	8.0
					17	31.3	7.8	433	4.6
	120204-H	Fourmile Bayou near Lake Verret	7/19/06	1252	3	32.2	5.8	348	8.7
					9	30.9	2.1	352	8.2
					18	30.6	1.6	352	8.1
	120204-I	Fourmile Bayou near Grassy Lake	7/19/06	1220	3	32.9	10.9	339	9.1
					9	31.7	8.4	342	8.8
					18	31.2	8.7	342	6.4
	120204-J	Grassy Lake northeast of middle	7/19/06	1130	1.5	32.3	11.5	337	9.2
	120204-K	Grassy Lake near middle	7/19/06	1115	1.5	31.9	8.3	356	8.9
120304	340	Intracoastal Waterway (ICWW) east of Houma, LA	7/21/06	927	3	31.5	3.8	794	7.3
					9	31.5	3.8	798	7.2
	120304-A	ICWW at Larose, LA	7/21/06	725	3	32.1	4.6	1,401	7.4
	120304-B	ICWW at Houma, LA	7/21/06	1228	3	32.0	4.5	454	7.4
					8	31.9	4.2	456	7.4
					15	21.9	4.0	455	7.3

Table B-1. (Continued)

Subsegment	Site ID	Site name	Date	Time	Sample depth (ft)	Water temp. (°C)	DO (mg/L)	Specific Conductivity (µmhos/cm)	pH (s.u.)
120403	120403-A	ICWW between Bayou Chene and Bayou Black	7/18/06	1345	3	32.6	6.8	395	8.6
					9	31.1	3.8	400	8.2
					18	31.0	3.6	399	8.1
	120403-B	Bayou Black near confluence with GIWW south of Lake Bridge, LA	7/18/06	1310	3	32.1	5.7	390	8.6
	120403-C	ICWW east of confluence with Bayou Black S of Lake Bridge, LA	7/18/06	1245	3	31.3	4.2	394	8.4
					9	31.3	4.0	394	8.4
					18	31.2	3.7	395	8.3
	120403-D	ICWW west of Minors Canal	7/20/06	1310	3	32.3	4.6	480	7.1
					10	32.1	3.7	481	7.0
					18	32.0	3.3	478	6.9
	120403-E	Minors Canal north of GIWW	7/20/06	1500	3	32.6	6.1	432	7.3
					6	32.4	5.5	441	7.3
	120403-F	Minors Canal north of GIWW	7/20/06	1515	3	32.6	6.1	440	7.1
					9	32.4	4.7	441	7.1
	120403-G	Bayou Boeuf at Amelia, LA	7/18/06	1515	3	31.8	4.4	394	8.6
					9	31.6	4.4	394	8.5
					18	31.6	4.0	395	8.5
	120403-H	ICWW near lock at Morgan City	7/18/06	1435	3	31.2	6.7	435	8.1
					9	31.1	6.5	433	7.9
					18	31.0	6.1	432	7.9
	120403-I	Bayou Chene near ICWW	7/18/06	1215	3	30.9	4.5	395	8.2
					9	30.7	3.6	397	8.1
					18	30.6	3.2	396	8.0
	120403-J	Houma Navigation Canal near Houma	7/21/06	1213	3	32.1	4.6	480	7.6
					10	31.8	4.1	480	7.4
					18	31.8	3.9	480	7.3
120604	945	Bayou Blue	7/21/06	659	3	31.4	4.9	1,280	7.5
				703	6	31.4	4.8	1,277	7.4

Table B-2. Water quality data from July 2006

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)
120202	114	7/18/06	11	0.09	0.029	7.00	0.98	< 0.1	< 0.04
	339	7/20/06	6	0.21	0.025	9.40	0.89	< 0.1	< 0.04
	120202-B	7/18/06	7	0.22	< 0.02	11.00	1.20	< 0.1	0.19
120204	145	7/19/06	26	0.92	0.11	9.30	2.00	< 0.1	< 0.04
	120204-A	7/19/06	34	0.21	0.020	5.50	1.20	< 0.1	1.10
	120204-D	7/19/06	16	0.63	0.074	12.00	1.60	< 0.1	< 0.04
	120204-E	7/19/06	20	0.89	< 0.02	7.10	4.10	0.17	2.10
	120204-F	7/19/06	37	0.66	0.15	11.00	2.80	< 0.1	< 0.04
	120204-G	7/19/06	19	0.26	0.098	6.90	2.50	< 0.1	0.23
	120204-K	7/19/06	32	0.39	0.1	9.00	1.70	< 0.1	< 0.04

Table B-2. (Continued)

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)
120304	340	7/21/06	75	0.19	0.027	5.90	1.20	0.12	0.48
	120304-A	7/21/06	48	0.15	0.021	6.60	1.20	0.15	0.27
120403	120403-D	7/20/06	23	0.16	< 0.02	6.90	1.30	< 0.1	0.42
	120403-G-1	7/18/06	36	0.28	0.058	7.90	1.60	< 0.1	0.33
	120403-G-2	7/18/06	35	0.33	0.051	7.70	1.80	< 0.1	0.34
	120403-H	7/18/06	61	0.18	< 0.02	4.80	1.40	< 0.1	1.50
	120403-I	7/18/06	29	0.24	0.066	7.50	1.60	< 0.1	0.39
	120403-J	7/21/06	9	0.13	< 0.02	6.50	0.98	< 0.1	0.42
120604	945	7/21/06	34	0.16	< 0.02	7.70	1.20	< 0.1	0.32
	945-2	7/21/06	28	0.15	< 0.02	7.80	1.20	< 0.1	0.33

Table B-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)
120202	114	2.8	3.9	6.0	6.5	-	0.17	6.82
	120202-A	< 2	2.0	3.3	3.5	-	0.17	3.72
120204	145	5.2	8.4	20.0	20.0	-	0.18	22.08
	120204-A	< 2	< 2	3.0	2.5	-	0.60	2.75
	120204-D	3.0	4.4	9.7	13.0	-	0.04	25.90
	120204-E	< 2	< 2	3.3	3.0	3.4	0.60	3.23
	120204-F	7.6	10.0	26.0	28.0	31.0	0.12	32.84
	120204-G	5.0	7.1	17.0	16.0	16.0	0.22	16.83
	120204-K	5.4	6.6	19.0	20.0	-	0.13	23.50
120304	340	< 2	2.5	3.6	3.6	3.7	0.43	3.65
	120304-A	< 2	2.6	3.7	3.7	3.9	0.38	3.80
120403	339	< 2	< 2	< 2	2.7	3.0	0.10	3.29
	120403-G-1	2.4	4.0	7.7	14.0	-	0.04	27.57
	120403-G-2	2.4	3.9	15.0	14.0	-	0.31	15.20
	120403-H	< 2	< 2	2.6	2.2	-	0.60	2.40
	120403-I	2.4	4.2	16.0	13.0	12.0	0.43	13.79
	120403-J	< 2	2.2	3.7	3.5	3.5	0.22	3.67
120604	945	< 2	2.5	3.9	4.0	4.1	0.36	4.04
	945-2	< 2	2.4	3.9	3.9	4.1	0.34	4.02

Table B-4. Summary of Acoustic Doppler Current Profiler data for 120202-A, 114, and 339

Station	120202-A			114			339	
Run	R1	R3	R4	R1	R2	R3	R1	R2
Geometry								
Area (ft^2)	493	466	477	751	706	703	252	244
River width (ft)	76	72	75	202	186	180	81	81
Calculated average depth (ft)	6.5	6.5	6.4	3.7	3.8	3.9	3.1	3.0
Average depth (ft)	6.5			3.8			3.1	

Table B-4. (Continued)

Station	120202-A			114			339	
Run	R1	R3	R4	R1	R2	R3	R1	R2
Flows								
Total discharge (cfs)	17.25	24.75	32.69	214.97	226.43	181.91	-9.46	-8.75
Flow direction (deg)	205.7	205.6	208.2	229.2	221.9	226.5	175.7	129.8
Average flow (cfs)	24.9			207.8			-9.1	

Table B-5. Summary of Acoustic Doppler Current Profiler data for 120204-A, 120204-D, 120204-G

Station	120204-A			120204-D		120204-G	
Run	R1	R2	R3	R1	R2	R1	R2
Geometry							
Area (ft^2)	1,503	1,542	1,522	431	442	3,952	3,973
River width (ft)	259	270	270	159	171	357	362
Calculated average depth (ft)	5.8	5.7	5.6	2.7	2.6	11.1	11.0
Average depth (ft)	5.7			2.6		11.0	
Flows							
Total discharge (cfs)	267.44	257.1	258.73	-9.92	3.41	1,097.5	1,029
Flow direction (deg)	133.3	137.3	135.8	100.2	279.6	129.1	135.8
Average flow (cfs)	261.1			6.7		1,063.2	

Table B-6. Summary of Acoustic Doppler Current Profiler data for 120204-H, 120204-I

Station	120204-H		120204-I		
Run	R1	R2	R1	R2	R3
Geometry					
Area (ft^2)	6,013	6,026	4,110	4,102	4,121
River width (ft)	356	346	285	291	283
Calculated average depth (ft)	16.9	17.4	14.4	14.1	14.6
Average depth (ft)	17.2		14.4		
Flows					
Total discharge (cfs)	-2,228	-2,062	-1,837	-1,894	-1,773
Flow direction (deg)	333.0	335.4	16.2	12.2	16.3
Average flow (cfs)	-2,145.2		-1,834.4		

Table B-7. Summary of Acoustic Doppler Current Profiler data for 120304-A

Station	120304-A		
Run	R1	R2	R3
Geometry			
Area (ft^2)	3,338	3,320	3,370
River width (ft)	260	260	266
Calculated average depth (ft)	12.8	12.8	12.7
Average depth (ft)	12.8		
Flows			
Total discharge (cfs)	-940.4	-677.5	-321.8
Flow direction (deg)	29.1	9.4	34.7
Average flow (cfs)	-646.6		

Table B-8. Summary of Acoustic Doppler Current Profiler data for 120403-A, 120403-B, and 120403-C

Station	120403-A			120403-B		120403-C
Run	R1	R2	R3	R1	R2	R1
Geometry						
Area (ft^2)	318	10,600	10,518	10,591	10,593	6,584
River width (ft)	101	683	706	713	704	572
Calculated average depth (ft)	3.2	15.5	14.9	14.9	15.0	11.5
Average depth (ft)	11.2			15.0		11.5
Flows						
Total discharge (cfs)	60.18	1,196.8	973.06	-294	-141.5	-2,695
Flow direction (deg)	272.3	125.2	111.6	178.5	229.0	75.8
Average flow (cfs)	743.3			203.7		-2,694.7

Table B-9. Summary of Acoustic Doppler Current Profiler data for 120403-D

Station	120403-D						
Run	R1	R2	R3	R4	R5	R6	R7
Geometry							
Area (ft^2)	6,678	6,632	119	34	87	6,304	68
River width (ft)	582	587	47	6	25	457	19
Calculated average depth (ft)	11.5	11.3	2.5	5.3	3.5	13.8	3.7
Average depth (ft)	7.4						
Flows							
Total discharge (cfs)	-937.2	-729.1	-7.5	-1.69	-9.36	925.1	-8.21
Flow direction (deg)	113.1	92.4	153.6	199.8	115.1	87.6	130.8
Average flow (cfs)	-109.7						

Table B-10. Summary of Acoustic Doppler Current Profiler data for 120403-E, 120403-F, 120403-H, and 120403-J

Station	120403E		120403-F			120403-H	120403-J	
Run	R1	R2	R1	R2		R1	R1	R2
Geometry								
Area (ft^2)	496	555	837	801	784	5,749	5,521	5,703
River width (ft)	167	178	177	141	147	618	346	379
Calculated average depth (ft)	3.0	3.1	4.7	5.7	5.3	9.3	15.9	15.0
Average depth (ft)			5.3			9.3	15.5	
Flows								
Total discharge (cfs)	-60.36	-67.2	-178.52	-121.57	-106.84	472.98	-1,878.74	-2,107.37
Flow direction (deg)	342.6	333.6	341.2	324.6	337.5	140.2	320.8	335.6
Average flow (cfs)			-135.6			473.0	-1,993.1	

Table B-11. Summary of Acoustic Doppler Current Profiler data for 945

Station	945	
Run	R1	R2
Geometry		
Area (ft^2)	549	565
River width (ft)	107	107
Calculated average depth (ft)	5.1	5.3
Average depth (ft)	5.2	
Flows		
Total discharge (cfs)	189.41	188.03
Flow direction (deg)	88.5	86.5
Average flow (cfs)	188.7	

Table B-12. Available total nitrite+nitrate data for the middle 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)
120202	114	Black Bayou	3/8/78-2/1/05	197	0.0	1.52	0.22
120202	339	Blacak Bayou	2/4/91-11/16/04	63	0.02	1.05	0.13
120204	144	Lake Verret and Grassy Lake	1/13/87-8/2/05	101	0.01	1.7	0.10
120204	145	Lake Verret and Grassy Lake	1/13/87-12/11/90	47	0.01	0.42	0.06

Table B-13. Available total Kejldahl nitrogen data for the middle Terrebonne Basin

Subsegment	Station	Station name	Period of record	No. of Obs.	TKN minimum (mg/L)	TKN maximum (mg/L)	TKN average (mg/L)
120202	114	Black Bayou	3/8/78-2/1/05	188	0.02	4.47	0.88
120202	339	Blacak Bayou	2/4/91-11/16/04	68	0.39	6.9	0.90
120204	144	Lake Verret and Grassy Lake	1/13/87-8/2/05	101	0.18	4.34	1.35
120204	145	Lake Verret and Grassy Lake	1/13/87-12/11/90	40	0.64	4.83	1.37

Table B-14. Available total phosphorus data for the middle 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)
120202	114	Black Bayou	3/8/78-2/1/05	188	0.01	0.79	0.17
120202	339	Blacak Bayou	2/4/91-11/16/04	68	0.01	0.71	0.18
120204	144	Lake Verret and Grassy Lake	1/13/87-8/2/05	100	0.07	0.97	0.22
120204	145	Lake Verret and Grassy Lake	1/13/87-12/11/90	40	0.06	0.86	0.24

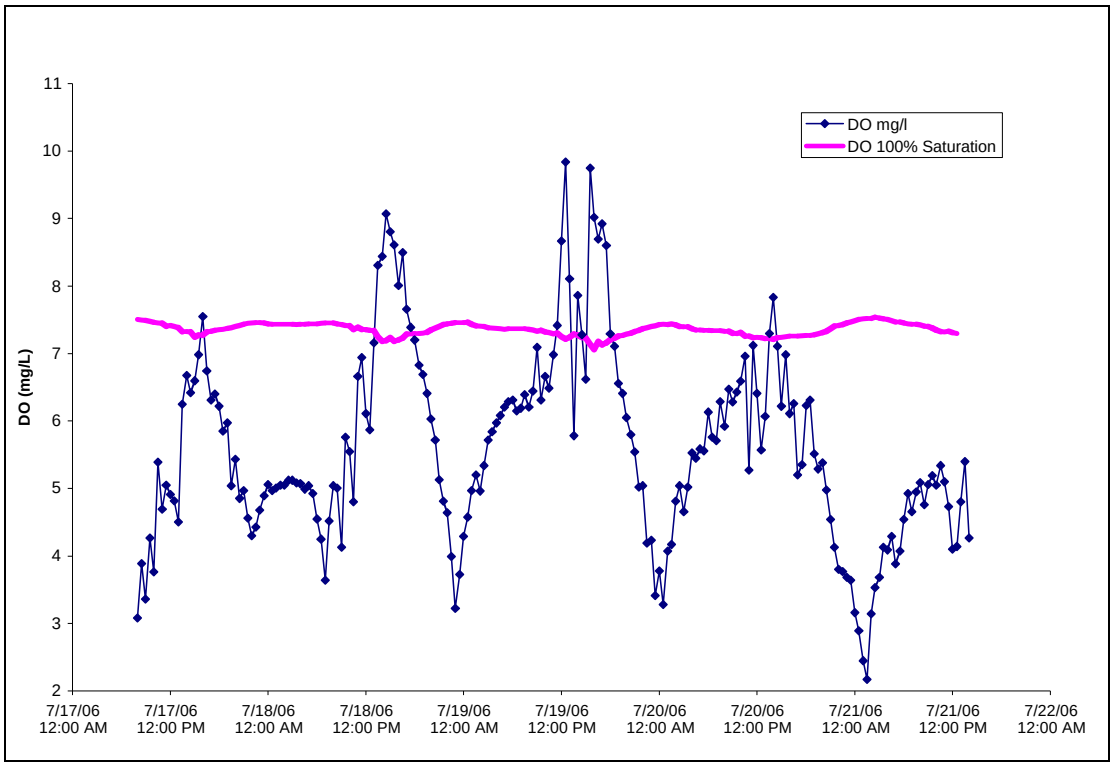

Figure B-1. Continuous monitoring data observed at Bayou Black at Gibson, LA (LDEQ 114).

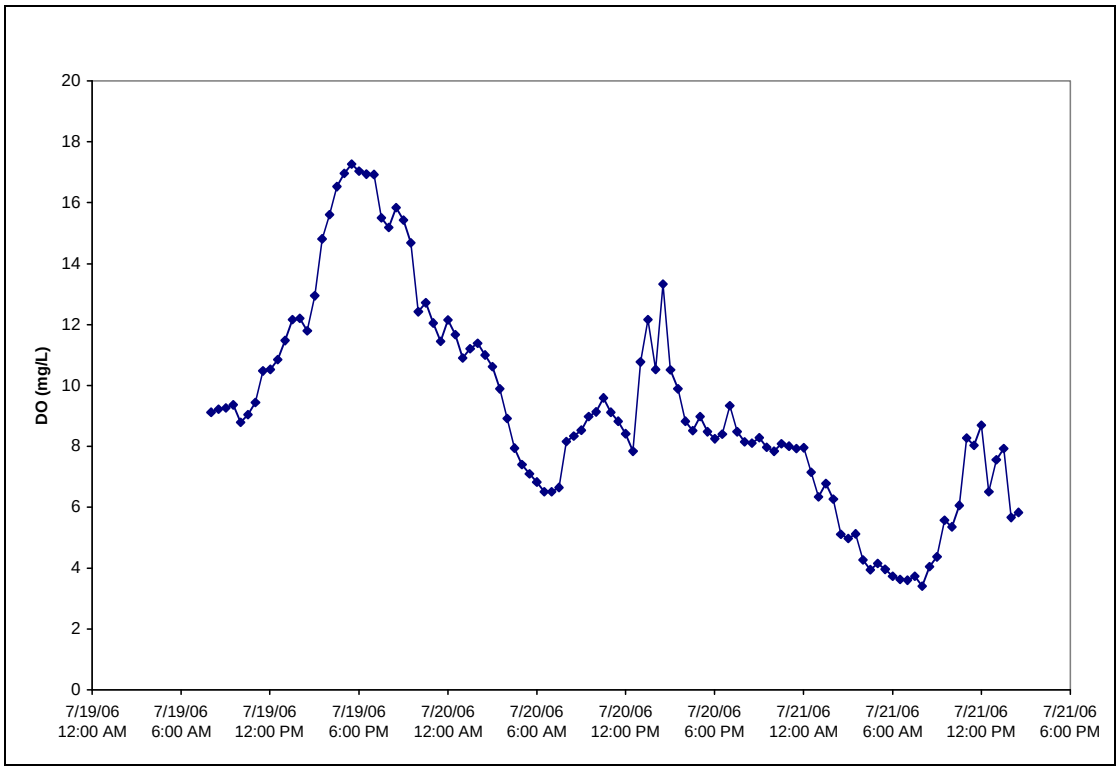

Figure B-2. Continuous monitoring data observed at Lake Verret at Attakapas Landing near Georgia (LDEQ 144).

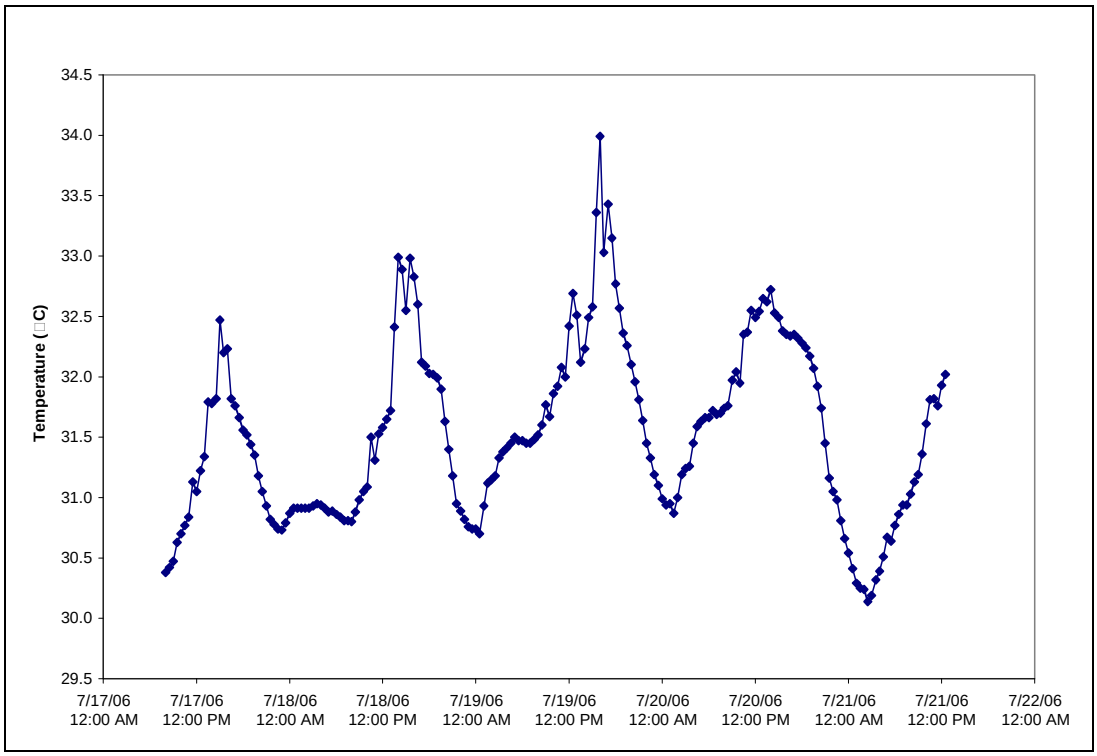

Figure B-3. Continuous temperature for middle Terrebonne Basin at station 114.

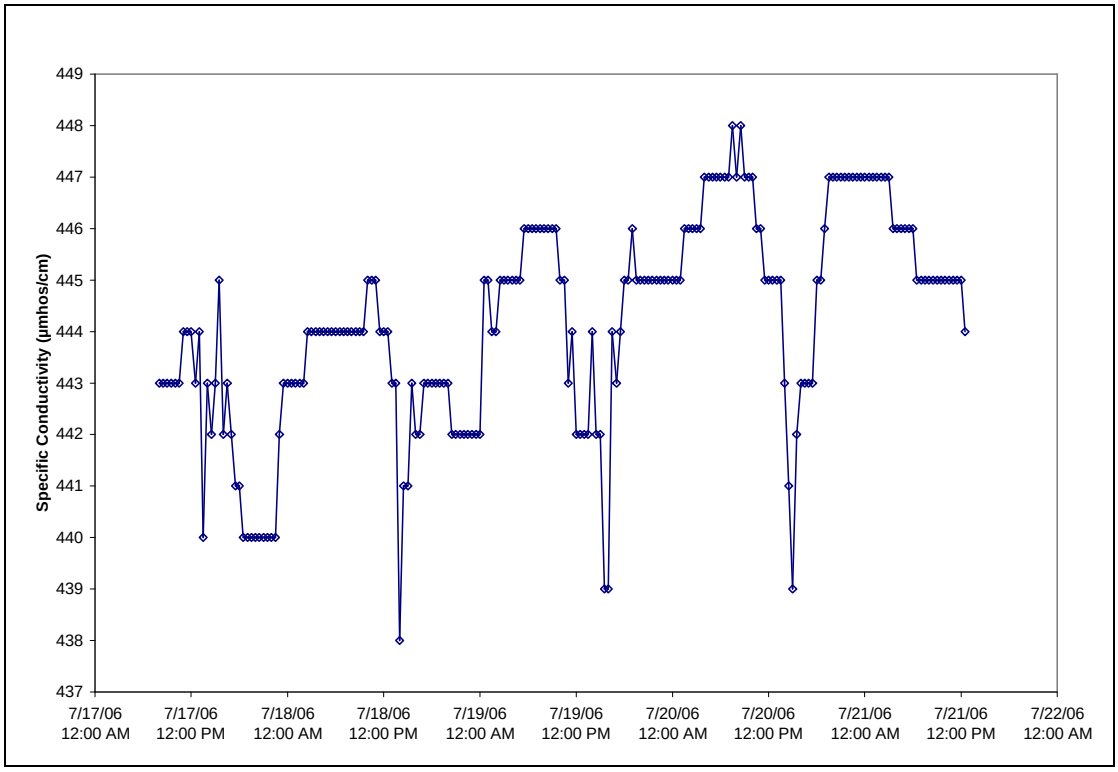

Figure B-4. Continuous specific conductivity for middle Terrebonne Basin at station 114.

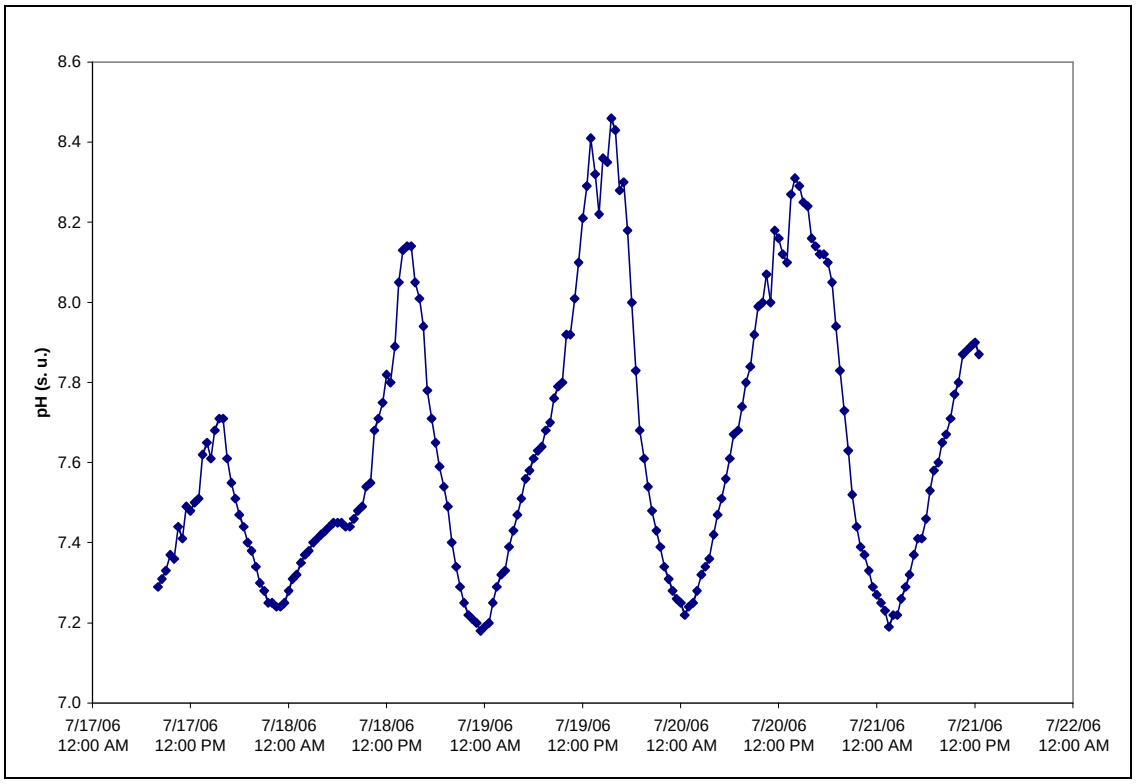

Figure B-5. Continuous pH for middle Terrebonne Basin at station 114.

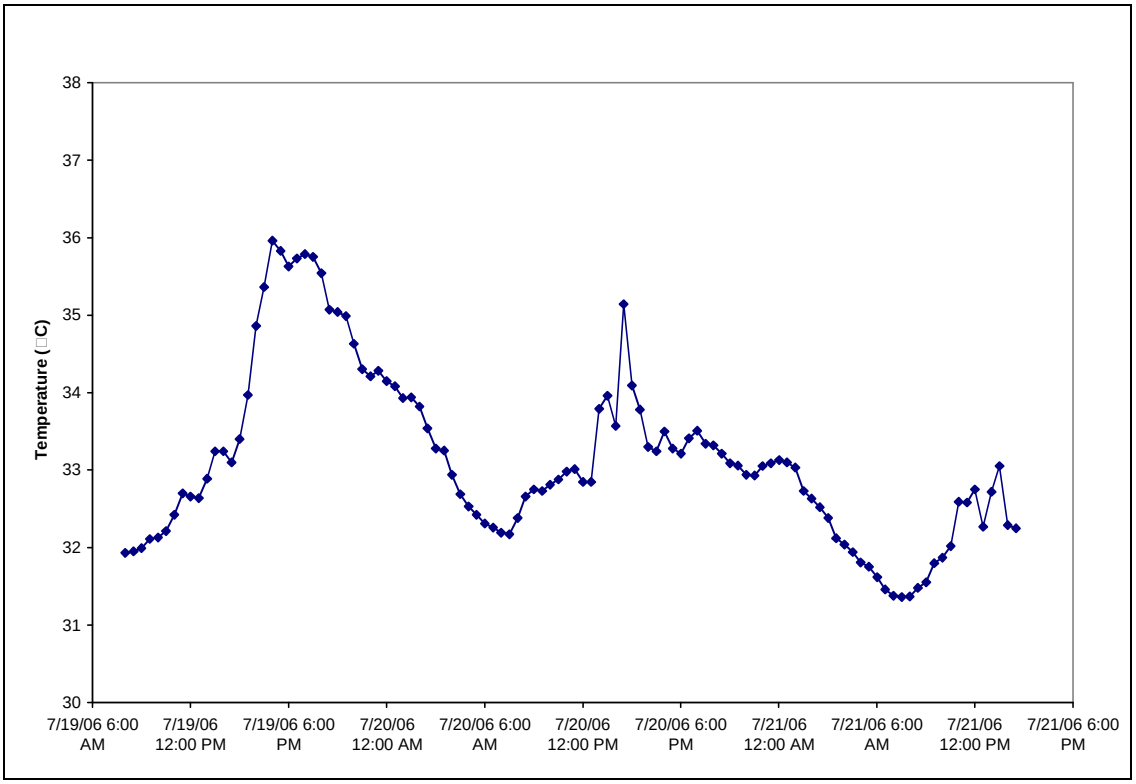

Figure B-6. Continuous temperature for middle Terrebonne at station 144.

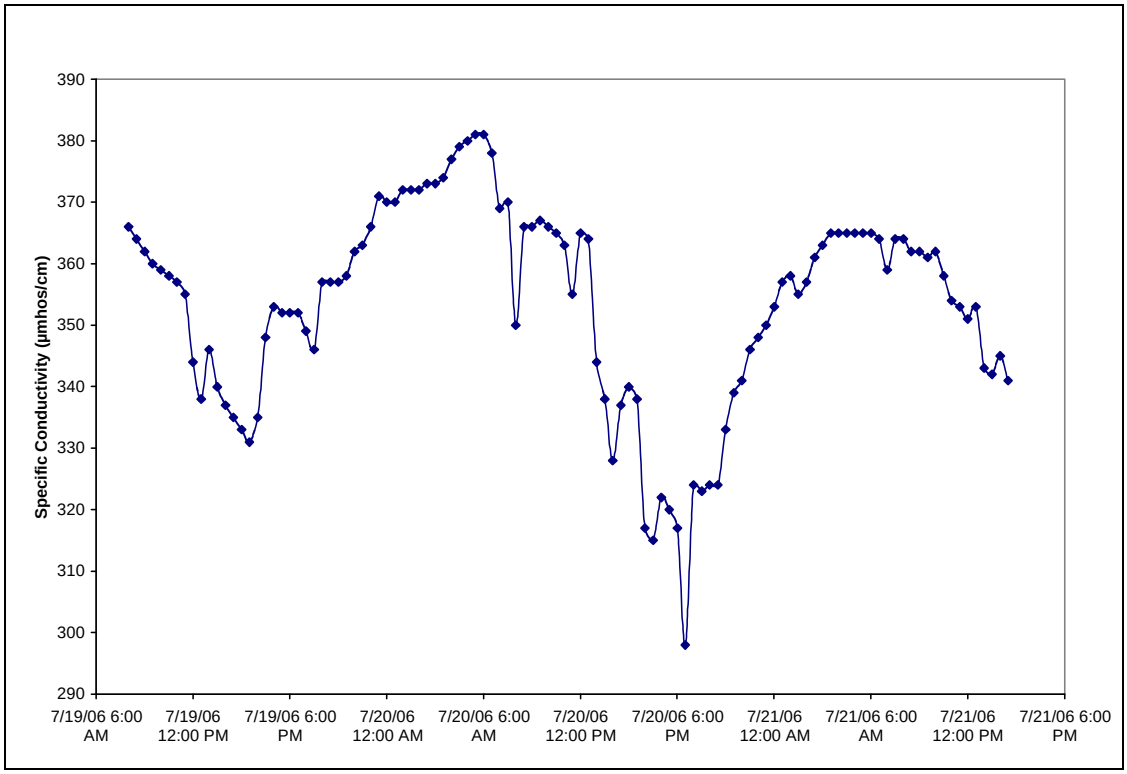

Figure B-7. Continuous specific conductivity for middle Terrebonne at station 144.

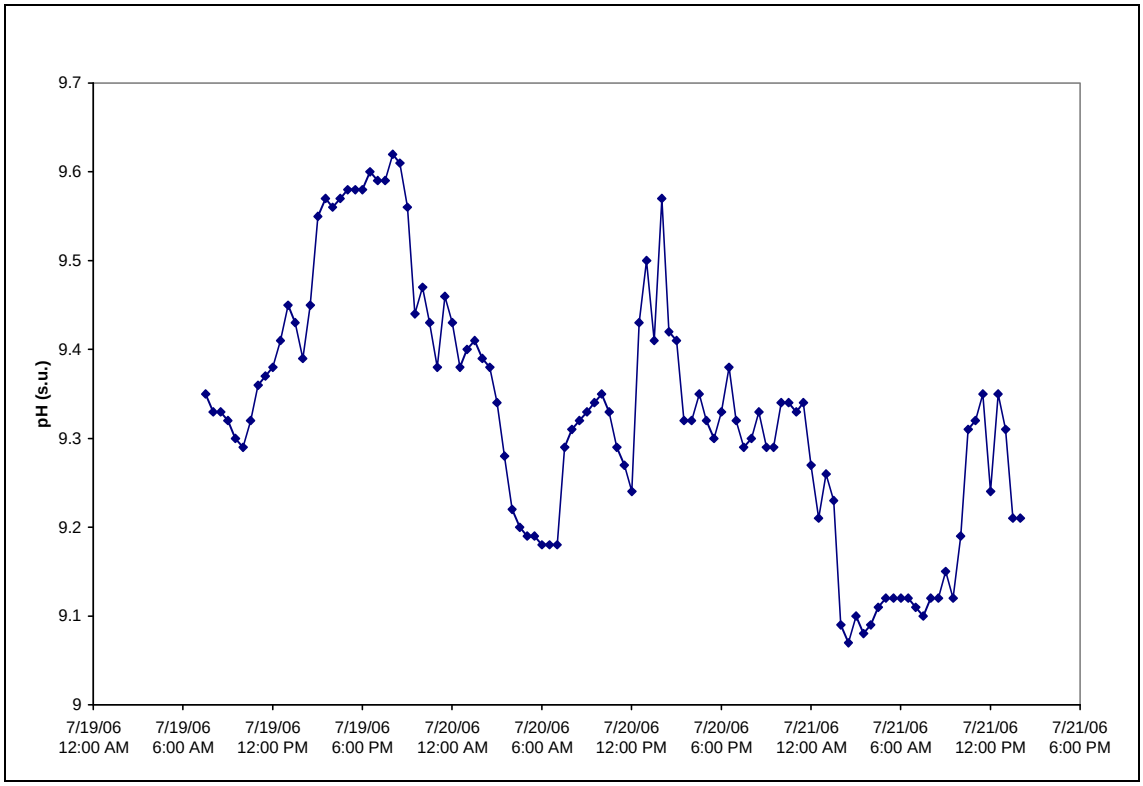

Figure B-8. Continuous pH for middle Terrebonne Basin at station 144.

APPENDIX C
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 D:
MODEL VECTOR DIAGRAMS

Figure D-1. Vector diagram for subsegment 120202. 2
Figure D-2. Vector diagram for subsegment 120204. 3
Figure D-3. Vector diagram for subsegment 120304. 4
Figure D-4. Vector diagram for subsegment 120403. 5
Figure D-5. Vector diagram for subsegment 120604. 6
Figure D-6. Connectivity diagram for subsegments 120202, 120304, and 120403. 7

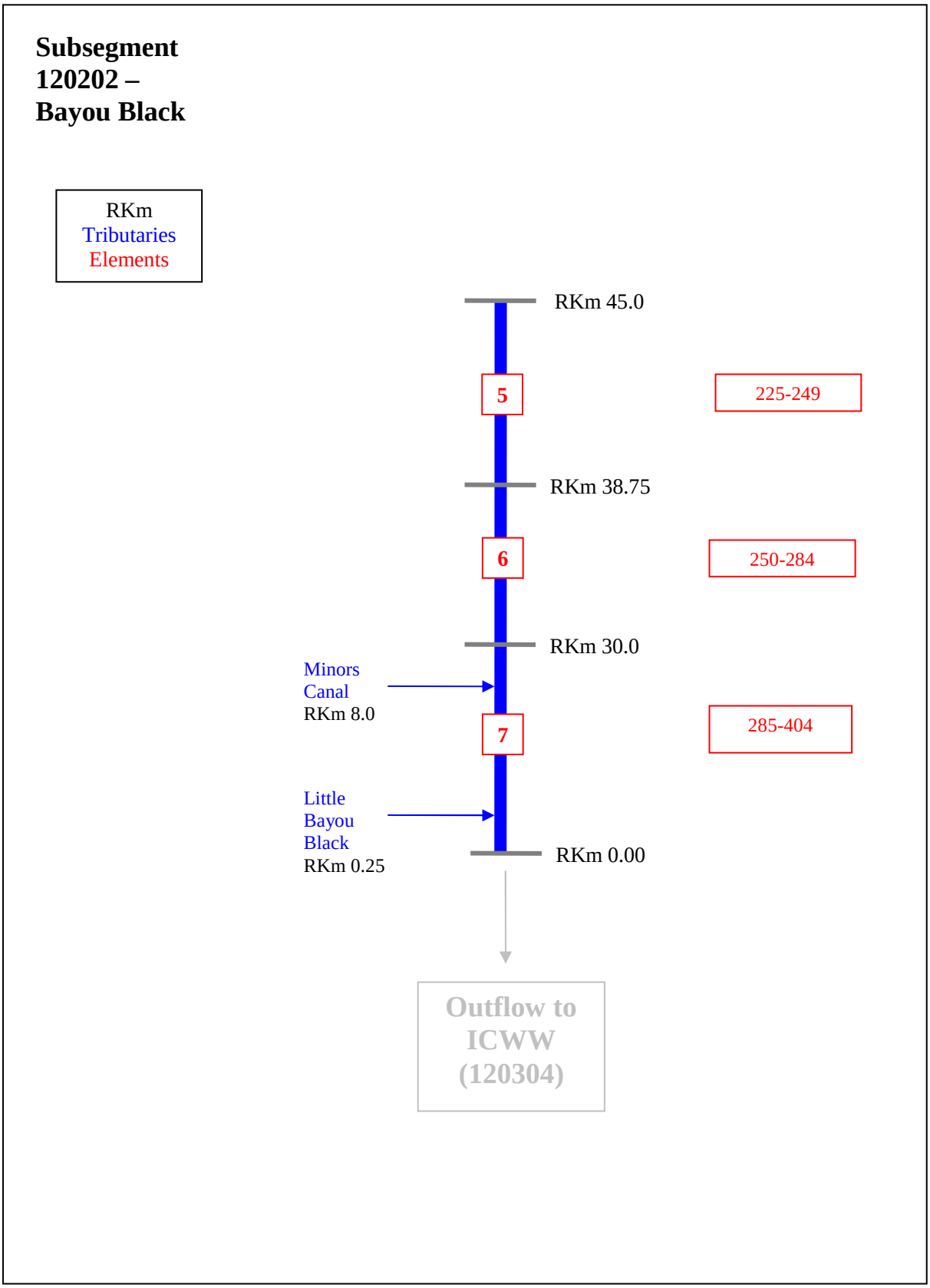

Figure D-1. Vector diagram for subsegment 120202.

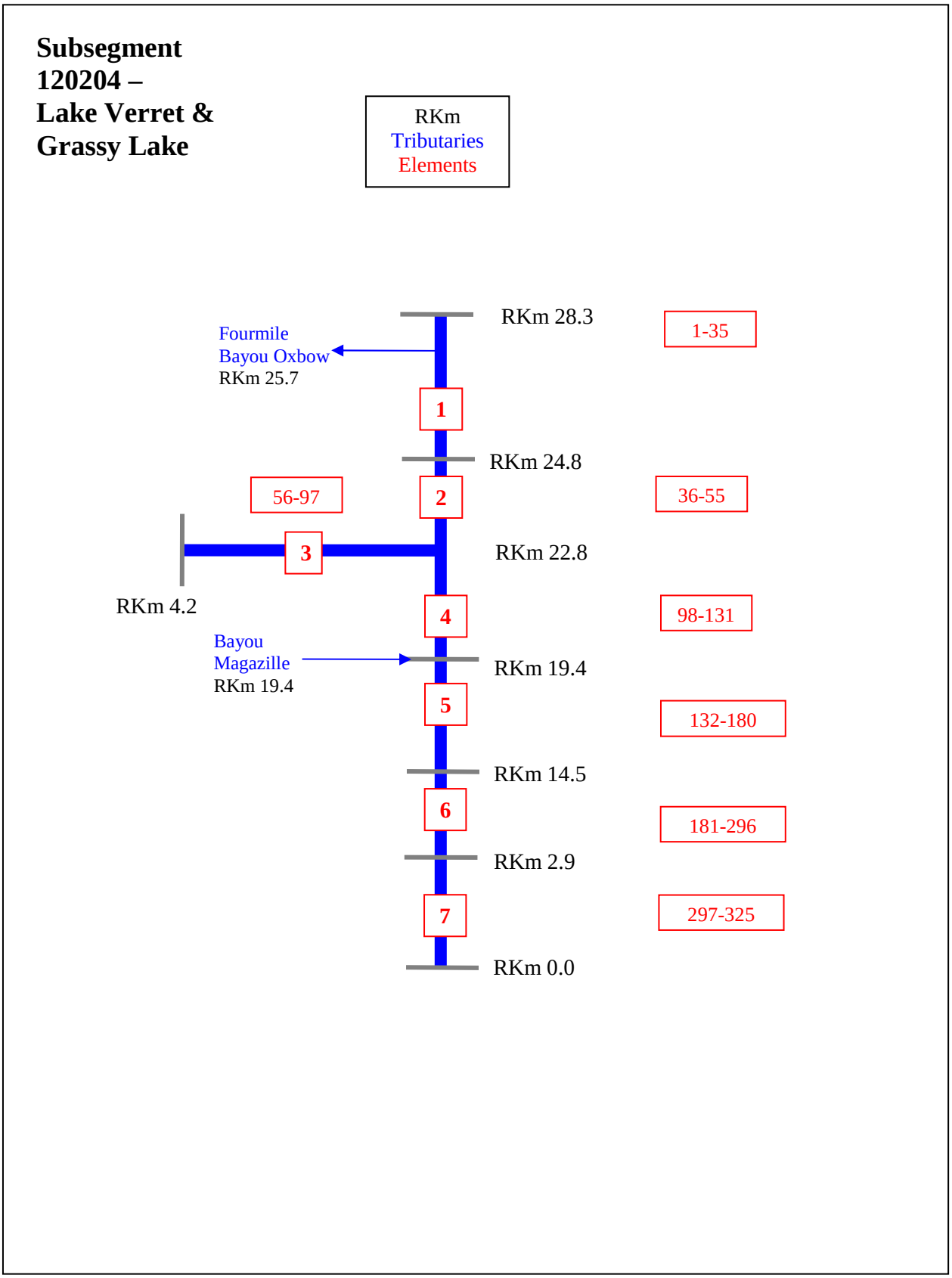

Figure D-2. Vector diagram for subsegment 120204.

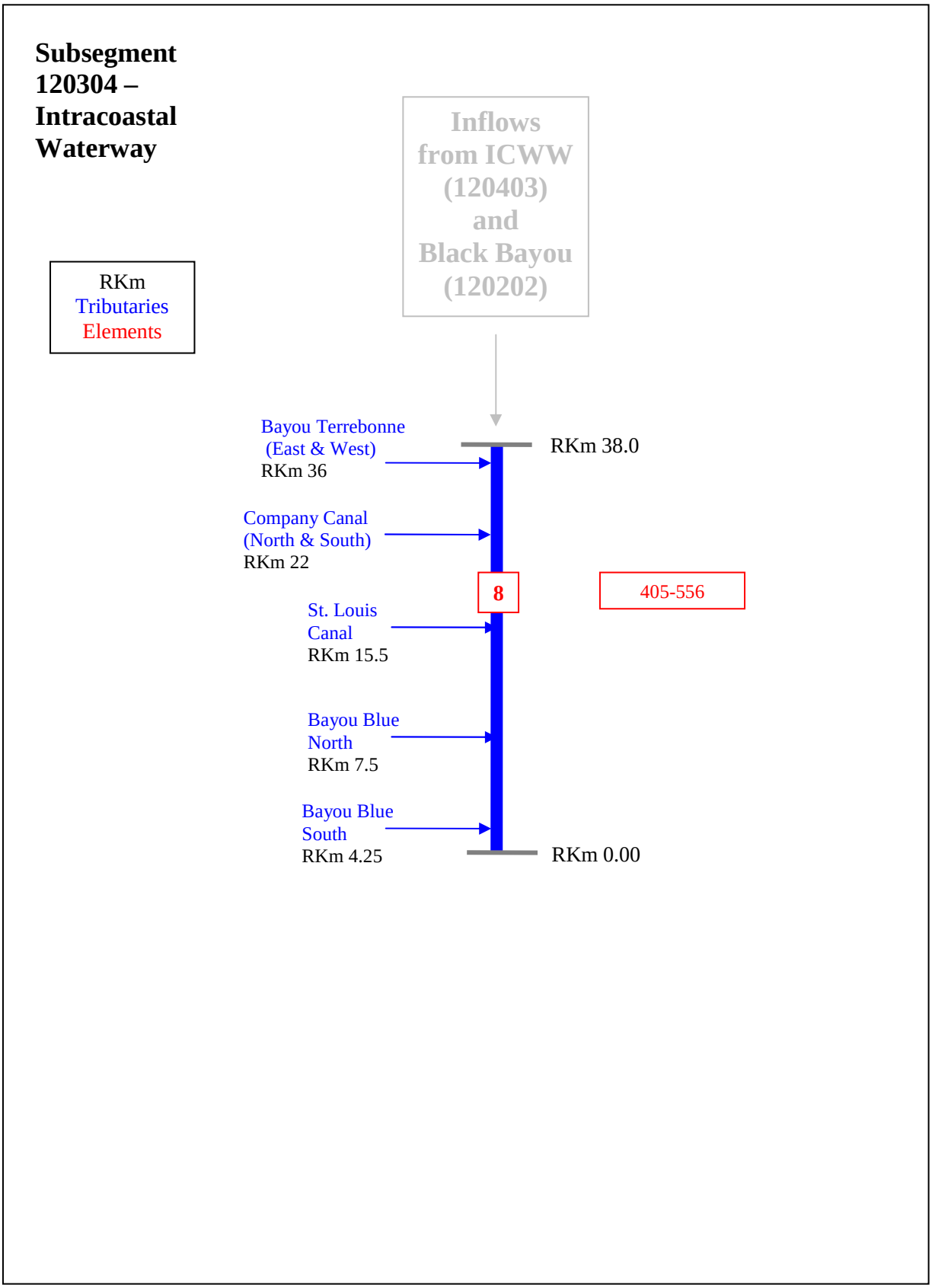

Figure D-3. Vector diagram for subsegment 120304.

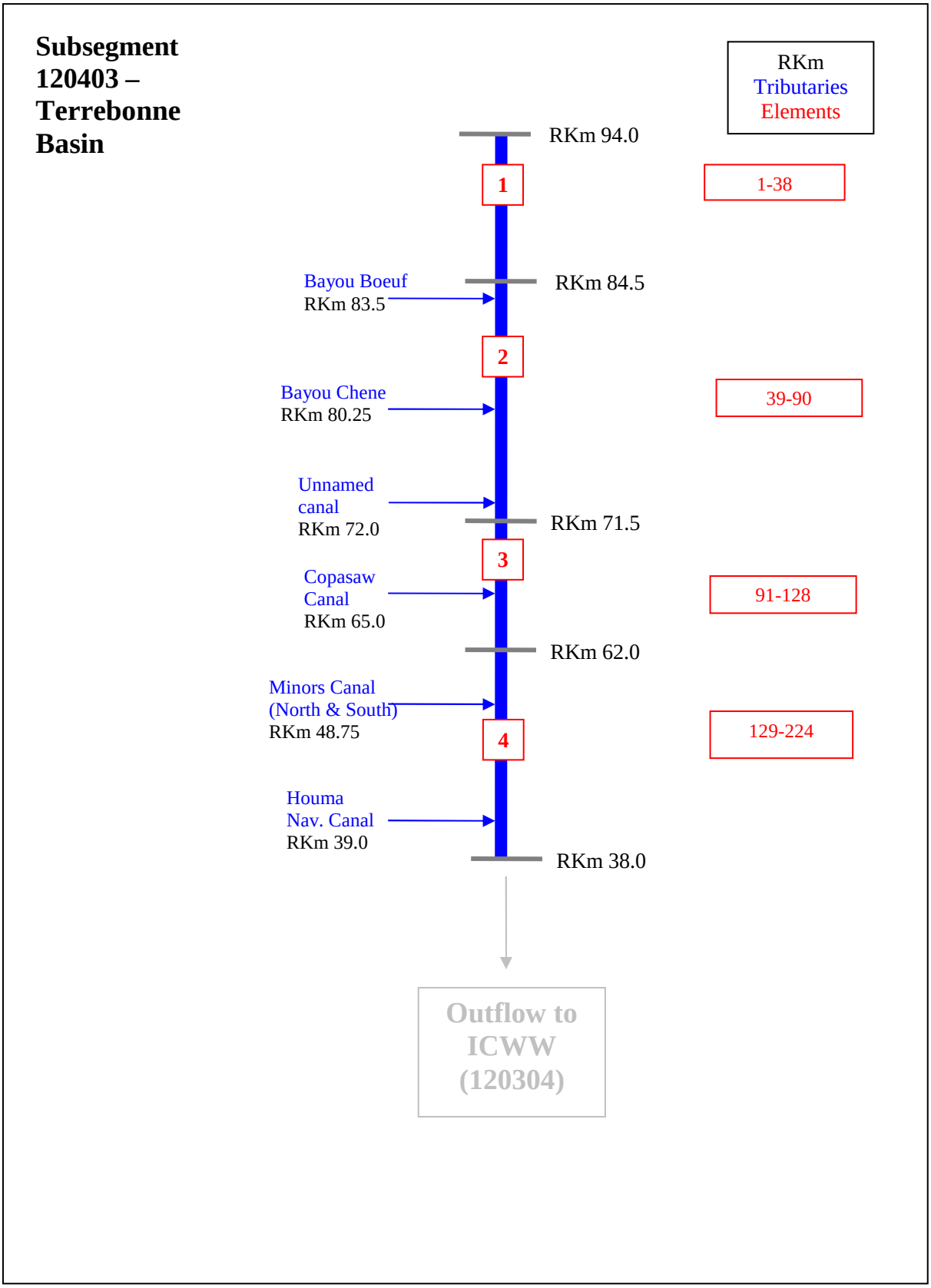

Figure D-4. Vector diagram for subsegment 120403.

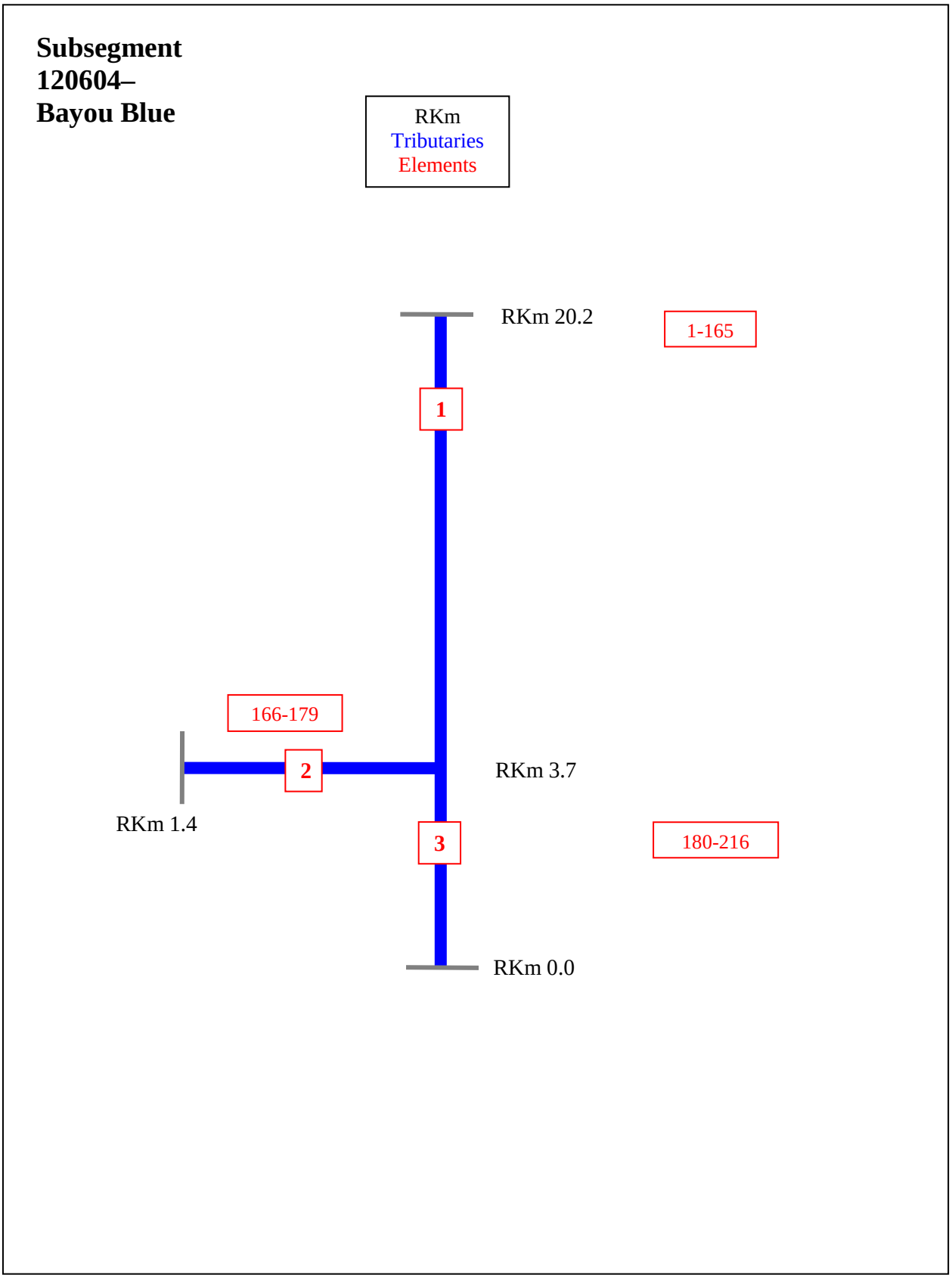

Figure D-5. Vector diagram for subsegment 120604.

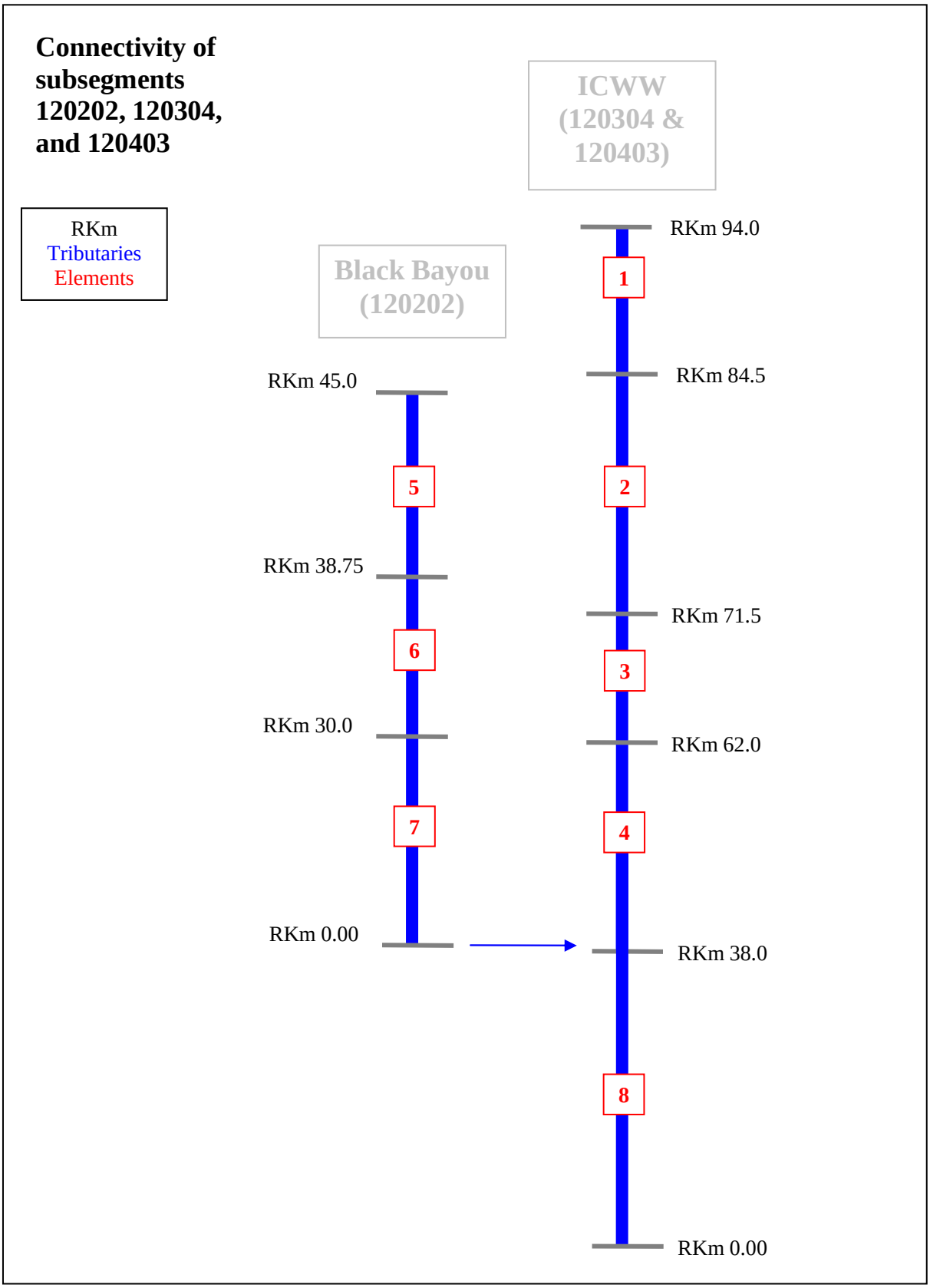

Figure D-6. Connectivity diagram for subsegments 120202, 120304, and 120403.

APPENDIX E:
MODEL OUTPUT FOR CALIBRATION

Calibration output file for subsegments 120202/120304/120403 1
Calibration output file for subsegment 120204 113
Calibration output file for subsegment 120604 182

Calibration output file for subsegments 120202/120304/120403

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality
Input file is D:\LA TMDL 2006\Additional\TO95\TT_Models\0608 MT\0608 MT - ICWW\Cal\GIBB_CAL_0608.txt
Output produced at 11:59 on 06/22/2008
$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$
CARD TYPE      CONTROL TITLES
TITLE01        LA-QUAL calibration for Gulf ICWW and Bayou Black
TITLE02        FTN Field Survey calibration
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   TEMP
MODOPT02   NO   SALI
MODOPT03   NO   CONSERVATIVE MATERIAL
MODOPT04   NO   CONSERVATIVE MATERIAL II
MODOPT05  YES   DISS
MODOPT06  YES   BIOC
MODOPT07  YES   NITR
MODOPT08   NO   PHOS
MODOPT09   NO   CHLO
MODOPT10   NO   MACR
MODOPT11   NO   COLI
MODOPT12   NO   NONC
ENDATA02
$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$

CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE
PROGRAM        HYDRAULIC CALCULATION METHOD      =        2.00000 (widths and depths)
PROGRAM        MAXIMUM ITERATION LIMIT           =      500.00000
PROGRAM        ALGAE OXYGEN PROD                 =        0.02600 mg O/ug chl a/day
PROGRAM        WIND                              =        1.30000 meters/sec
PROGRAM        TIDE  HEIGHT                      =        1.24000 meters
PROGRAM        DISPERSION EQUATION               =        1.00000 (values entered as a constant)
PROGRAM        HEADWATER EXCHANGE RATIO          =        1.00000
ENDATA03
$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$
 CARD TYPE     RATE CODE     THETA VALUE
THETA       NH3 DECA       1.07000
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   IC  Gulf ICWW                 94.00  TO   84.50   0.2500    9.50     38      1     38
REACH ID     2   IC  Gulf ICWW                 84.50  TO   71.50   0.2500   13.00     52     39     90
REACH ID     3   IC  Gulf ICWW                 71.50  TO   62.00   0.2500    9.50     38     91    128
REACH ID     4   IC  Gulf ICWW                 62.00  TO   38.00   0.2500   24.00     96    129    224
REACH ID     5   BB  Bayou Black               45.00  TO   38.75   0.2500    6.25     25    225    249
REACH ID     6   BB  Bayou Black               38.75  TO   30.00   0.2500    8.75     35    250    284
REACH ID     7   BB  Bayou Black               30.00  TO    0.00   0.2500   30.00    120    285    404
REACH ID     8   IC  Gulf ICWW                 38.00  TO    0.00   0.2500   38.00    152    405    556
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   IC      0.000      0.000    182.490      0.000      0.000      9.300    0.00000   0.000
HYDR-1       2   IC      0.000      0.000    209.060      0.000      0.000     13.350    0.00000   0.000
HYDR-1       3   IC      0.000      0.000    395.300      0.000      0.000     12.770    0.00000   0.000
HYDR-1       4   IC      0.000      0.000    190.000      0.000      0.000     12.190    0.00000   0.000
HYDR-1       5   BB      0.000      0.000    196.710      0.000      0.000      4.570    0.00000   0.000
HYDR-1       6   BB      0.000      0.000     31.170      0.000      0.000      1.160    0.00000   0.000
HYDR-1       7   BB      0.000      0.000     31.170      0.000      0.000      1.160    0.00000   0.000
HYDR-1       8   IC      0.000      0.000    155.800      0.000      0.000     12.800    0.00000   0.000
ENDATA09
$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                  RANGE       "A"          "B"          "C"          "D"
HYDR         1   IC     0.00       0.900        0.000        0.000        0.000
HYDR         2   IC     0.00       0.500        0.000        0.000        0.000
HYDR         3   IC     0.00       0.300        0.000        0.000        0.000
HYDR         4   IC     0.00       0.300        0.000        0.000        0.000
HYDR         5   BB     0.00       0.200        0.000        0.000        0.000
HYDR         6   BB     0.00       0.000        0.000        0.000        0.000
HYDR         7   BB     0.00       0.000        0.000        0.000        0.000
HYDR         8   IC     0.00       0.900        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   IC     31.20      0.00     6.70     0.10      0.00      0.00     20.00      0.00
INITIAL         2   IC     32.00      0.00     5.50     0.11      0.00      0.00     20.00      0.00
INITIAL         3   IC     32.10      0.00     5.05     0.12      0.00      0.00     20.00      0.00
INITIAL         4   IC     32.30      0.00     4.60     0.13      0.00      0.00     20.00      0.00
INITIAL         5   BB     32.10      0.00     5.70     0.10      0.00      0.00     25.00      0.00
INITIAL         6   BB     32.00      0.00     6.08     0.10      0.00      0.00     25.00      0.00
INITIAL         7   BB     32.00      0.00     6.08     0.10      0.00      0.00     50.00      0.00
```

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INITIAL        8  IC     31.90     0.00     4.30     0.14     0.00     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  IC  21 YU          0.000   0.000   0.000   1.000   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   2  IC  21 YU          0.000   0.000   0.000   1.000   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   3  IC  21 YU          0.000   0.000   0.000   2.000   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   4  IC  21 YU          0.000   0.000   0.000   2.200   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   5  BB  21 YU          0.000   0.000   0.000   0.700   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   6  BB  21 YU          0.000   0.000   0.000   0.700   0.150   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   7  BB  21 YU          0.000   0.000   0.000   1.300   0.170   0.000   1.000   0.000   0.000   0.000   0.000   0.000
COEFF-1   8  IC  21 YU          0.000   0.000   0.000   0.700   0.150   0.000   1.000   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  IC     0.020    0.000    1.000    0.130    0.000    0.000    0.000
COEFF-2         2  IC     0.020    0.000    1.000    0.130    0.000    0.000    0.000
COEFF-2         3  IC     0.020    0.000    1.000    0.130    0.000    0.000    0.000
COEFF-2         4  IC     0.020    0.000    1.000    0.130    0.000    0.000    0.000
COEFF-2         5  BB     0.020    0.000    1.000    0.200    0.000    0.000    0.000
COEFF-2         6  BB     0.020    0.000    1.000    0.200    0.000    0.000    0.000
COEFF-2         7  BB     0.020    0.000    1.000    0.200    0.000    0.000    0.000
COEFF-2         8  IC     0.020    0.000    1.000    0.130    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  IC     0.00000    1.00000    30.90     0.00     0.00     0.00  0.10526   0.00000
INCR-1          2  IC     0.00000    0.85500    30.90     0.00     0.00     0.00  0.06577   0.00000
INCR-1          3  IC     0.00000    0.62500    30.90     0.00     0.00     0.00  0.06579   0.00000
INCR-1          4  IC     0.00000    1.57800    30.90     0.00     0.00     0.00  0.06575   0.00000
INCR-1          5  BB     0.00000    0.10000    29.70     0.00     0.00     0.00  0.01600   0.00000
INCR-1          6  BB     0.00000    0.10000    29.70     0.00     0.00     0.00  0.01143   0.00000
INCR-1          7  BB     0.00000    0.17200    29.70     0.00     0.00     0.00  0.00573   0.00000
INCR-1          8  IC     0.00000    3.25600    32.10     0.00     0.00     0.00  0.08568   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  IC      7.22     6.67     1.40     0.10     0.00     0.00
```

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INCR-2        2  IC     7.22    6.67    1.40    0.10    0.00    0.00
INCR-2        3  IC     7.22    6.67    1.40    0.10    0.00    0.00
INCR-2        4  IC     7.22    6.67    1.40    0.10    0.00    0.00
INCR-2        5  BB     5.00    3.70    1.10    0.10    0.00    0.00
INCR-2        6  BB     5.00    3.70    1.10    0.10    0.00    0.00
INCR-2        7  BB     5.00    3.70    1.10    0.10    0.00    0.00
INCR-2        8  IC     7.22    6.67    1.40    0.10    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  IC    9000.00   520.00    0.00    0.00    0.00    0.00
NONPOINT        2  IC   22000.00   600.00    0.00    0.00    0.00    0.00
NONPOINT        3  IC   30000.00  1200.00    0.00    0.00    0.00    0.00
NONPOINT        4  IC   33000.00  1400.00    0.00    0.00    0.00    0.00
NONPOINT        5  BB     500.00    10.00    0.00    0.00    0.00    0.00
NONPOINT        6  BB     600.00    20.00    0.00    0.00    0.00    0.00
NONPOINT        7  BB    1050.00    20.00    0.00    0.00    0.00    0.00
NONPOINT        8  IC   75000.00  2000.00    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    ICWW                0  0.25500   9.004   31.20    0.00    0.000    0.000   0.00
HDWTR-1      225    Bayou Black         0  0.00700   0.247   32.00    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    ICWW                 6.70     3.70     1.30     0.10     0.00     0.00
HDWTR-2      225    Bayou Black          1.49     9.75     1.41     0.30     0.00     0.00
ENDATA21
$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
CARD TYPE    ELEMENT   NAME                 PHOS    CHL A    COLI     NCM
                                         mg/L     mg/L     mg/L     mg/L
ENDATA22
$$$ DATA TYPE 23 (JUNCTION DATA) $$$
CARD TYPE   JUNCTION   UPSTRM    RIVER    NAME
          ELEMENT  ELEMENT    KILOM
JUNCTION      405     224     38.00    ICWW and Bayou Black
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      39     84.50  Bayou Boeuff       47.90509 1691.56396 1093.448   31.20    0.00    0.000    0.000
WSTLD-1      57     80.00  Bayou Chene       -36.47580-1287.98730 -832.571   31.20    0.00    0.000    0.000
WSTLD-1      89     72.00  Unnamed Canal       1.55720   54.98587   35.544   31.20    0.00    0.000    0.000
WSTLD-1     117     65.00  Copasaw Canal      15.28886  539.86090  348.973   31.20    0.00    0.000    0.000
```

```
WSTLD-1   181   49.00  Minors Canal South    4.47341  157.95940  102.107   31.20    0.00    0.000    0.000
WSTLD-1   181   49.00  Minors Canal North   -0.52378  -18.49506  -11.955   31.20    0.00    0.000    0.000
WSTLD-1   221   39.00  Houma Nav. Can.     -23.81100 -840.78394 -543.493   31.20    0.00    0.000    0.000
WSTLD-1   223   38.50  PS ICWW#1            0.00003    0.00106    0.001   31.20    0.00    0.000    0.000
WSTLD-1   260   36.25  LAG531469            0.00014    0.00494    0.003   31.20    0.00    0.000    0.000
WSTLD-1   268   34.25  LAG540726            0.00004    0.00141    0.001   31.20    0.00    0.000    0.000
WSTLD-1   278   31.75  PS Black Bayou#1     0.00150    0.05297    0.034   31.20    0.00    0.000    0.000
WSTLD-1   292   28.25  PS Black Bayou#2     0.00192    0.06780    0.044   31.20    0.00    0.000    0.000
WSTLD-1   312   23.25  LAG541223            0.00071    0.02507    0.016   31.20    0.00    0.000    0.000
WSTLD-1   331   18.50  PS Black Bayou#3     0.00018    0.00636    0.004   31.20    0.00    0.000    0.000
WSTLD-1   339   16.50  LAG541317            0.00042    0.01483    0.010   31.20    0.00    0.000    0.000
WSTLD-1   352   13.25  LA0111236            0.01416    0.50000    0.323   31.20    0.00    0.000    0.000
WSTLD-1   369    9.00  PS Hanson Canal      0.00160    0.05650    0.037   31.20    0.00    0.000    0.000
WSTLD-1   372    8.25  LA0074331            0.00001    0.00035    0.000   31.20    0.00    0.000    0.000
WSTLD-1   373    8.00  Minors Canal         0.52662   18.59534   12.020   31.20    0.00    0.000    0.000
WSTLD-1   401    1.00  Little Bayou Black   1.30238   45.98800   29.727   31.20    0.00    0.000    0.000
WSTLD-1   402    0.75  PS Lil Bayou Black   0.00039    0.01377    0.009   31.20    0.00    0.000    0.000
WSTLD-1   413   36.00  Bayou Terrebonne W.  1.41564   49.98729   32.312   31.20    0.00    0.000    0.000
WSTLD-1   413   36.00  Bayou Terrebonne E.  -0.96263  -33.99117  -21.972   31.20    0.00    0.000    0.000
WSTLD-1   417   35.00  LA0111376            0.00001    0.00035    0.000   31.20    0.00    0.000    0.000
WSTLD-1   461   24.00  LA0104868            0.00005    0.00177    0.001   31.20    0.00    0.000    0.000
WSTLD-1   467   22.50  LA0089648            0.00344    0.12147    0.079   31.20    0.00    0.000    0.000
WSTLD-1   469   22.00  Company Canal North  4.16197  146.96222   94.998   31.20    0.00    0.000    0.000
WSTLD-1   469   22.00  Company Canal South  -0.53794  -18.99506  -12.279   31.20    0.00    0.000    0.000
WSTLD-1   493   16.00  St Louis Canal       0.45300   15.99576   10.340   31.20    0.00    0.000    0.000
WSTLD-1   525    8.00  Bayou Bleu North     1.21745   42.98906   27.789   31.20    0.00    0.000    0.000
WSTLD-1   541    4.00  Bayou Bleu South     -0.39638  -13.99647   -9.047   31.20    0.00    0.000    0.000
WSTLD-1   549    2.00  PS ICWW#2            0.00004    0.00141    0.001   31.20    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      39      Bayou Boeuff        4.40    5.00    0.00    1.60    0.10    0.00     0.00    0.00
WSTLD-2      57      Bayou Chene         0.00    0.00    0.00    0.00    0.00    0.00     0.00    0.00
WSTLD-2      89      Unnamed Canal       6.60    6.20    0.00    1.40    0.10    0.00     0.00    0.00
WSTLD-2     117      Copasaw Canal       6.60    6.20    0.00    1.40    0.10    0.00     0.00    0.00
WSTLD-2     181      Minors Canal South  10.40   7.20    0.00    1.40    0.10    0.00     0.00    0.00
WSTLD-2     181      Minors Canal North  0.00    0.00    0.00    0.00    0.00    0.00     0.00    0.00
WSTLD-2     221      Houma Nav. Can.     0.00    0.00    0.00    0.00    0.00    0.00     0.00    0.00
WSTLD-2     223      PS ICWW#1           5.00   103.50   0.00    1.40    1.50    0.00     2.00    0.00
WSTLD-2     260      LAG531469           5.00   103.50   0.00    1.40    1.50    0.00     2.00    0.00
WSTLD-2     268      LAG540726           5.00   69.00    0.00    1.40    1.50    0.00     2.00    0.00
WSTLD-2     278      PS Black Bayou#1    5.00   56.90    0.00    1.40    1.50    0.00     2.00    0.00
WSTLD-2     292      PS Black Bayou#2    5.00   52.70    0.00    1.40    1.50    0.00     2.00    0.00
WSTLD-2     312      LAG541223           5.00   69.00    0.00    1.40    1.50    0.00     2.00    0.00
WSTLD-2     331      PS Black Bayou#3    5.00   103.50   0.00    1.40    1.50    0.00     2.00    0.00
WSTLD-2     339      LAG541317           5.00   69.00    0.00    1.40    1.50    0.00     2.00    0.00
WSTLD-2     352      LA0111236           5.00   57.50    0.00    1.40   20.00    0.00     2.00    0.00
WSTLD-2     369      PS Hanson Canal     5.00   25.40    0.00    1.40    1.50    0.00     2.00    0.00
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WSTLD-2     372   LA0074331          5.00   103.50   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2     373   Minors Canal      10.40     7.20   0.00   1.40   0.10   0.00   0.00   0.00
WSTLD-2     401   Little Bayou Black  2.30     9.40   0.00   1.63   0.14   0.00   0.00   0.00
WSTLD-2     402   PS Lil Bayou Black  5.00   103.50   0.00   1.63   1.50   0.00   2.00   0.00
WSTLD-2     413   Bayou Terrebonne W.  2.30     9.40   0.00   1.63   0.14   0.00   0.00   0.00
WSTLD-2     413   Bayou Terrebonne E.  0.00     0.00   0.00   0.00   0.00   0.00   0.00   0.00
WSTLD-2     417   LA0111376          5.00   103.50   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2     461   LA0104868          5.00   103.50   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2     467   LA0089648          5.00    70.80   0.00   1.40   1.50   0.00   2.00   0.00
WSTLD-2     469   Company Canal North  3.89     9.80   0.00   1.34   0.10   0.00   0.00   0.00
WSTLD-2     469   Company Canal South  0.00     0.00   0.00   0.00   0.00   0.00   0.00   0.00
WSTLD-2     493   St Louis Canal     3.34     8.70   0.00   0.90   0.10   0.00   0.00   0.00
WSTLD-2     525   Bayou Bleu North   3.34     8.70   0.00   0.90   0.10   0.00   0.00   0.00
WSTLD-2     541   Bayou Bleu South   0.00     0.00   0.00   0.00   0.00   0.00   0.00   0.00
WSTLD-2     549   PS ICWW#2          5.00   103.50   0.00   1.40   1.50   0.00   2.00   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                  32.100    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             4.600    mg/L
LOWER BC     BIOCHEMICAL OXYGEN DEMAND        3.800    mg/L
LOWER BC     ORGANIC NITROGEN             0.000    mg/L
LOWER BC     AMMONIA NITROGEN             0.150    mg/L
LOWER BC     NITRATE + NITRITE            0.270    mg/L
LOWER BC     PHOSPHORUS                   0.000    mg/L
LOWER BC     CHLOROPHYLL A                21.000    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 =   5
PLOT RCH  1  2  3  4  8
NUMBER OF REACHES IN PLOT 2 =   3
PLOT RCH  5  6  7
ENDATA30
$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
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OVERLAY 1 GIWW.ovl                    :GIWW (subs 120403 and 120304)
OVERLAY 2 Black.ovl                   :Bayou Black (Sub 120202)
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
INTERMEDIATE REPORT
 Dissolved Oxygen                          LA-QUAL calibration for Gulf ICWW and Bayou Black
   mg/L                                  FTN Field Survey calibration
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ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	6.59	6.59	6.60	6.62	6.63	6.64	6.65	6.66	6.67	6.68
IC	1	11	6.68	6.69	6.69	6.70	6.70	6.70	6.71	6.71	6.71	6.71
IC	1	21	6.71	6.71	6.70	6.70	6.69	6.67	6.65	6.62	6.58	6.52
IC	1	31	6.45	6.34	6.20	6.01	5.77	5.47	5.11	4.72		
IC	2	39	4.38	4.31	4.26	4.20	4.15	4.11	4.06	4.03	3.99	3.96
IC	2	49	3.93	3.90	3.88	3.85	3.84	3.82	3.80	3.79	3.78	3.77
IC	2	59	3.78	3.80	3.84	3.88	3.93	3.99	4.05	4.12	4.19	4.27
IC	2	69	4.34	4.42	4.49	4.57	4.65	4.72	4.80	4.87	4.94	5.02
IC	2	79	5.09	5.16	5.22	5.29	5.36	5.42	5.48	5.54	5.60	5.65
IC	2	89	5.72	5.70								
IC	3	91	5.58	5.48	5.40	5.32	5.26	5.20	5.15	5.11	5.07	5.03
IC	3	101	5.00	4.97	4.95	4.93	4.91	4.89	4.87	4.86	4.84	4.83
IC	3	111	4.82	4.81	4.80	4.79	4.79	4.86	5.36	5.17	5.01	4.86
IC	3	121	4.74	4.63	4.53	4.45	4.38	4.32	4.27	4.23		
IC	4	129	4.21	4.19	4.17	4.15	4.13	4.11	4.10	4.09	4.08	4.07
IC	4	139	4.07	4.06	4.06	4.05	4.05	4.05	4.05	4.05	4.06	4.06
IC	4	149	4.06	4.07	4.08	4.08	4.09	4.10	4.11	4.12	4.13	4.14
IC	4	159	4.15	4.16	4.17	4.18	4.20	4.21	4.22	4.24	4.25	4.27
IC	4	169	4.28	4.30	4.31	4.33	4.35	4.36	4.38	4.40	4.42	4.43
IC	4	179	4.45	4.52	5.17	5.15	5.14	5.12	5.11	5.09	5.08	5.07
IC	4	189	5.07	5.06	5.06	5.05	5.05	5.05	5.05	5.05	5.05	5.05
IC	4	199	5.06	5.06	5.07	5.07	5.08	5.09	5.10	5.10	5.11	5.12
IC	4	209	5.13	5.15	5.16	5.17	5.18	5.20	5.21	5.22	5.24	5.25
IC	4	219	5.27	5.28	5.30	5.34	5.37	5.33				
IC	8	405	5.13	5.19	5.23	5.27	5.31	5.33	5.32	5.27	5.08	5.06
IC	8	415	5.05	5.04	5.02	5.01	5.00	4.99	4.98	4.97	4.96	4.95
IC	8	425	4.94	4.93	4.92	4.91	4.90	4.89	4.88	4.87	4.87	4.86
IC	8	435	4.85	4.84	4.83	4.82	4.82	4.81	4.80	4.79	4.78	4.78
IC	8	445	4.77	4.76	4.75	4.74	4.73	4.73	4.72	4.71	4.70	4.69
IC	8	455	4.69	4.68	4.67	4.66	4.65	4.64	4.64	4.63	4.62	4.61
IC	8	465	4.60	4.58	4.55	4.48	4.31	4.24	4.18	4.12	4.07	4.02
IC	8	475	3.97	3.93	3.89	3.86	3.83	3.80	3.77	3.75	3.73	3.71
IC	8	485	3.69	3.68	3.66	3.65	3.64	3.63	3.62	3.61	3.59	3.58
IC	8	495	3.57	3.56	3.55	3.54	3.54	3.53	3.53	3.52	3.52	3.51
IC	8	505	3.51	3.51	3.51	3.50	3.50	3.50	3.50	3.50	3.50	3.50

IC	8	515	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.48
IC	8	525	3.46	3.44	3.43	3.42	3.41	3.40	3.39	3.38	3.38	3.37
IC	8	535	3.36	3.36	3.35	3.34	3.34	3.33	3.33	3.32	3.32	3.32
IC	8	545	3.31	3.31	3.31	3.30	3.30	3.30	3.29	3.29	3.29	3.31
IC	8	555	3.39	3.77								
BB	5	225	10.74	10.80	10.84	10.86	10.87	10.88	10.88	10.89	10.89	10.89
BB	5	235	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.88
BB	5	245	10.87	10.85	10.81	10.73	10.57					
BB	6	250	10.00	8.45	7.44	6.77	6.31	6.00	5.77	5.62	5.51	5.43
BB	6	260	5.36	5.32	5.30	5.29	5.29	5.30	5.32	5.33	5.35	5.38
BB	6	270	5.40	5.43	5.46	5.49	5.53	5.56	5.59	5.63	5.62	5.63
BB	6	280	5.66	5.69	5.73	5.77	5.81					
BB	7	285	5.41	5.16	5.02	4.95	4.93	4.93	4.95	4.94	4.95	4.97
BB	7	295	5.00	5.03	5.06	5.09	5.12	5.15	5.17	5.19	5.21	5.22
BB	7	305	5.23	5.24	5.25	5.25	5.26	5.26	5.26	5.24	5.22	5.21
BB	7	315	5.21	5.20	5.19	5.19	5.18	5.18	5.17	5.16	5.16	5.15
BB	7	325	5.14	5.13	5.13	5.12	5.11	5.10	5.08	5.07	5.06	5.05
BB	7	335	5.04	5.03	5.02	5.00	4.99	4.97	4.96	4.94	4.93	4.92
BB	7	345	4.91	4.90	4.89	4.88	4.87	4.86	4.85	4.33	3.98	3.74
BB	7	355	3.59	3.51	3.47	3.47	3.49	3.52	3.57	3.62	3.68	3.73
BB	7	365	3.79	3.84	3.90	3.94	3.99	4.02	4.05	4.08	7.50	7.17
BB	7	375	6.86	6.59	6.34	6.12	5.91	5.72	5.55	5.40	5.26	5.13
BB	7	385	5.02	4.91	4.81	4.73	4.65	4.58	4.51	4.45	4.40	4.35
BB	7	395	4.30	4.26	4.23	4.19	4.16	4.13	3.04	3.03	3.01	3.00

INTERMEDIATE REPORT

Effective BOD — LA-QUAL calibration for Gulf ICWW and Bayou Black

mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	2.41	2.38	2.35	2.34	2.33	2.32	2.31	2.31	2.30	2.30
IC	1	11	2.30	2.29	2.29	2.29	2.29	2.28	2.28	2.28	2.28	2.28
IC	1	21	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.28
IC	1	31	2.29	2.31	2.35	2.42	2.53	2.73	3.08	3.67		
IC	2	39	4.73	4.63	4.54	4.45	4.36	4.28	4.20	4.13	4.05	3.98
IC	2	49	3.92	3.85	3.79	3.73	3.68	3.62	3.57	3.52	3.46	3.32
IC	2	59	3.19	3.08	2.98	2.90	2.83	2.76	2.71	2.66	2.62	2.59
IC	2	69	2.56	2.53	2.51	2.49	2.47	2.45	2.44	2.43	2.42	2.41
IC	2	79	2.40	2.40	2.39	2.39	2.38	2.38	2.38	2.38	2.39	2.45
IC	2	89	2.69	2.64								
IC	3	91	2.60	2.56	2.53	2.51	2.49	2.47	2.46	2.45	2.44	2.44
IC	3	101	2.43	2.42	2.42	2.42	2.41	2.41	2.41	2.41	2.41	2.40
IC	3	111	2.40	2.40	2.41	2.42	2.48	2.76	3.99	3.82	3.66	3.52
IC	3	121	3.40	3.29	3.19	3.10	3.03	2.96	2.90	2.85		
IC	4	129	2.82	2.79	2.76	2.74	2.71	2.69	2.67	2.65	2.63	2.61
IC	4	139	2.59	2.58	2.56	2.55	2.53	2.52	2.51	2.50	2.49	2.48
IC	4	149	2.47	2.46	2.45	2.44	2.44	2.43	2.42	2.42	2.41	2.40
IC	4	159	2.40	2.39	2.39	2.38	2.38	2.38	2.37	2.37	2.37	2.36
IC	4	169	2.36	2.36	2.35	2.35	2.35	2.35	2.35	2.34	2.34	2.34
IC	4	179	2.34	2.38	2.90	2.88	2.85	2.82	2.80	2.78	2.76	2.74
IC	4	189	2.72	2.70	2.68	2.66	2.65	2.63	2.62	2.60	2.59	2.58
IC	4	199	2.57	2.55	2.54	2.53	2.52	2.51	2.51	2.50	2.49	2.48

IC	4	209	2.47	2.47	2.46	2.46	2.45	2.44	2.44	2.43	2.43	2.42
IC	4	219	2.42	2.42	2.41	2.41	2.42	2.58				
IC	8	405	3.16	3.22	3.28	3.33	3.38	3.43	3.49	3.62	3.95	3.95
IC	8	415	3.94	3.93	3.93	3.92	3.91	3.91	3.90	3.90	3.90	3.89
IC	8	425	3.89	3.89	3.88	3.88	3.88	3.88	3.88	3.87	3.87	3.87
IC	8	435	3.87	3.87	3.87	3.87	3.86	3.86	3.86	3.86	3.86	3.86
IC	8	445	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.85	3.85	3.85
IC	8	455	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
IC	8	465	3.86	3.87	3.94	4.15	4.91	4.84	4.77	4.71	4.65	4.59
IC	8	475	4.54	4.50	4.45	4.41	4.37	4.34	4.30	4.27	4.24	4.22
IC	8	485	4.19	4.17	4.15	4.13	4.11	4.09	4.08	4.08	4.13	4.11
IC	8	495	4.09	4.08	4.06	4.05	4.03	4.02	4.01	4.00	3.99	3.98
IC	8	505	3.97	3.96	3.95	3.95	3.94	3.93	3.93	3.92	3.91	3.91
IC	8	515	3.90	3.90	3.90	3.89	3.89	3.88	3.88	3.88	3.89	3.93
IC	8	525	4.10	4.08	4.07	4.05	4.04	4.03	4.02	4.00	3.99	3.98
IC	8	535	3.97	3.97	3.96	3.95	3.94	3.94	3.93	3.92	3.92	3.91
IC	8	545	3.91	3.90	3.90	3.89	3.89	3.89	3.88	3.88	3.88	3.87
IC	8	555	3.86	3.84								
BB	5	225	0.42	0.38	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.36
BB	5	235	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
BB	5	245	0.36	0.37	0.38	0.41	0.48					
BB	6	250	0.87	2.18	3.18	3.96	4.56	5.04	5.41	5.70	5.94	6.12
BB	6	260	6.36	6.46	6.55	6.61	6.67	6.72	6.75	6.79	6.82	6.84
BB	6	270	6.86	6.87	6.88	6.89	6.90	6.91	6.91	6.92	7.26	7.22
BB	6	280	7.18	7.15	7.13	7.10	7.08					
BB	7	285	6.58	6.14	5.76	5.44	5.16	4.92	4.71	4.89	4.69	4.52
BB	7	295	4.36	4.23	4.12	4.01	3.93	3.85	3.78	3.73	3.68	3.63
BB	7	305	3.59	3.56	3.53	3.50	3.48	3.46	3.44	3.59	3.56	3.53
BB	7	315	3.50	3.48	3.46	3.44	3.43	3.41	3.40	3.39	3.38	3.37
BB	7	325	3.37	3.36	3.35	3.35	3.34	3.34	3.40	3.39	3.38	3.37
BB	7	335	3.36	3.36	3.35	3.35	3.43	3.42	3.41	3.40	3.39	3.38
BB	7	345	3.37	3.37	3.36	3.36	3.35	3.35	3.34	5.50	5.31	5.13
BB	7	355	4.96	4.81	4.68	4.56	4.45	4.35	4.26	4.17	4.10	4.03
BB	7	365	3.97	3.91	3.86	3.81	3.86	3.81	3.77	3.74	5.72	5.64
BB	7	375	5.55	5.47	5.40	5.33	5.26	5.19	5.12	5.06	5.00	4.94
BB	7	385	4.88	4.83	4.78	4.73	4.68	4.63	4.59	4.54	4.50	4.46
BB	7	395	4.42	4.38	4.35	4.31	4.28	4.25	7.21	7.17	7.12	7.06

INTERMEDIATE REPORT

Biochemical Oxygen Demand — LA-QUAL calibration for Gulf ICWW and Bayou Black

mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	2.41	2.38	2.35	2.34	2.33	2.32	2.31	2.31	2.30	2.30
IC	1	11	2.30	2.29	2.29	2.29	2.29	2.28	2.28	2.28	2.28	2.28
IC	1	21	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.28
IC	1	31	2.29	2.31	2.35	2.42	2.53	2.73	3.08	3.67		
IC	2	39	4.73	4.63	4.54	4.45	4.36	4.28	4.20	4.13	4.05	3.98
IC	2	49	3.92	3.85	3.79	3.73	3.68	3.62	3.57	3.52	3.46	3.32
IC	2	59	3.19	3.08	2.98	2.90	2.83	2.76	2.71	2.66	2.62	2.59
IC	2	69	2.56	2.53	2.51	2.49	2.47	2.45	2.44	2.43	2.42	2.41
IC	2	79	2.40	2.40	2.39	2.39	2.38	2.38	2.38	2.38	2.39	2.45

IC	2	89	2.69	2.64								
IC	3	91	2.60	2.56	2.53	2.51	2.49	2.47	2.46	2.45	2.44	2.44
IC	3	101	2.43	2.42	2.42	2.42	2.41	2.41	2.41	2.41	2.41	2.40
IC	3	111	2.40	2.40	2.41	2.42	2.48	2.76	3.99	3.82	3.66	3.52
IC	3	121	3.40	3.29	3.19	3.10	3.03	2.96	2.90	2.85		
IC	4	129	2.82	2.79	2.76	2.74	2.71	2.69	2.67	2.65	2.63	2.61
IC	4	139	2.59	2.58	2.56	2.55	2.53	2.52	2.51	2.50	2.49	2.48
IC	4	149	2.47	2.46	2.45	2.44	2.44	2.43	2.42	2.42	2.41	2.40
IC	4	159	2.40	2.39	2.39	2.38	2.38	2.38	2.37	2.37	2.37	2.36
IC	4	169	2.36	2.36	2.35	2.35	2.35	2.35	2.35	2.34	2.34	2.34
IC	4	179	2.34	2.38	2.90	2.88	2.85	2.82	2.80	2.78	2.76	2.74
IC	4	189	2.72	2.70	2.68	2.66	2.65	2.63	2.62	2.60	2.59	2.58
IC	4	199	2.57	2.55	2.54	2.53	2.52	2.51	2.51	2.50	2.49	2.48
IC	4	209	2.47	2.47	2.46	2.46	2.45	2.44	2.44	2.43	2.43	2.42
IC	4	219	2.42	2.42	2.41	2.41	2.42	2.58				
IC	8	405	3.16	3.22	3.28	3.33	3.38	3.43	3.49	3.62	3.95	3.95
IC	8	415	3.94	3.93	3.93	3.92	3.91	3.91	3.90	3.90	3.90	3.89
IC	8	425	3.89	3.89	3.88	3.88	3.88	3.88	3.88	3.87	3.87	3.87
IC	8	435	3.87	3.87	3.87	3.87	3.86	3.86	3.86	3.86	3.86	3.86
IC	8	445	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.85	3.85	3.85
IC	8	455	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
IC	8	465	3.86	3.87	3.94	4.15	4.91	4.84	4.77	4.71	4.65	4.59
IC	8	475	4.54	4.50	4.45	4.41	4.37	4.34	4.30	4.27	4.24	4.22
IC	8	485	4.19	4.17	4.15	4.13	4.11	4.09	4.08	4.08	4.13	4.11
IC	8	495	4.09	4.08	4.06	4.05	4.03	4.02	4.01	4.00	3.99	3.98
IC	8	505	3.97	3.96	3.95	3.95	3.94	3.93	3.93	3.92	3.91	3.91
IC	8	515	3.90	3.90	3.90	3.89	3.89	3.88	3.88	3.88	3.89	3.93
IC	8	525	4.10	4.08	4.07	4.05	4.04	4.03	4.02	4.00	3.99	3.98
IC	8	535	3.97	3.97	3.96	3.95	3.94	3.94	3.93	3.92	3.92	3.91
IC	8	545	3.91	3.90	3.90	3.89	3.89	3.89	3.88	3.88	3.88	3.87
IC	8	555	3.86	3.84								
BB	5	225	0.42	0.38	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.36
BB	5	235	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
BB	5	245	0.36	0.37	0.38	0.41	0.48					
BB	6	250	0.87	2.18	3.18	3.96	4.56	5.04	5.41	5.70	5.94	6.12
BB	6	260	6.36	6.46	6.55	6.61	6.67	6.72	6.75	6.79	6.82	6.84
BB	6	270	6.86	6.87	6.88	6.89	6.90	6.91	6.91	6.92	7.26	7.22
BB	6	280	7.18	7.15	7.13	7.10	7.08					
BB	7	285	6.58	6.14	5.76	5.44	5.16	4.92	4.71	4.89	4.69	4.52
BB	7	295	4.36	4.23	4.12	4.01	3.93	3.85	3.78	3.73	3.68	3.63
BB	7	305	3.59	3.56	3.53	3.50	3.48	3.46	3.44	3.59	3.56	3.53
BB	7	315	3.50	3.48	3.46	3.44	3.43	3.41	3.40	3.39	3.38	3.37
BB	7	325	3.37	3.36	3.35	3.35	3.34	3.34	3.40	3.39	3.38	3.37
BB	7	335	3.36	3.36	3.35	3.35	3.43	3.42	3.41	3.40	3.39	3.38
BB	7	345	3.37	3.37	3.36	3.36	3.35	3.35	3.34	5.50	5.31	5.13
BB	7	355	4.96	4.81	4.68	4.56	4.45	4.35	4.26	4.17	4.10	4.03
BB	7	365	3.97	3.91	3.86	3.81	3.86	3.81	3.77	3.74	5.72	5.64
BB	7	375	5.55	5.47	5.40	5.33	5.26	5.19	5.12	5.06	5.00	4.94
BB	7	385	4.88	4.83	4.78	4.73	4.68	4.63	4.59	4.54	4.50	4.46
BB	7	395	4.42	4.38	4.35	4.31	4.28	4.25	7.21	7.17	7.12	7.06

INTERMEDIATE REPORT

Organic Nitrogen — LA-QUAL calibration for Gulf ICWW and Bayou Black

mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
IC	1	11	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
IC	1	21	1.31	1.31	1.31	1.31	1.31	1.31	1.32	1.32	1.32	1.33
IC	1	31	1.34	1.35	1.36	1.38	1.40	1.43	1.47	1.52		
IC	2	39	1.59	1.58	1.58	1.57	1.57	1.57	1.56	1.56	1.55	1.55
IC	2	49	1.55	1.54	1.54	1.54	1.53	1.53	1.52	1.52	1.52	1.50
IC	2	59	1.49	1.48	1.46	1.45	1.44	1.43	1.42	1.40	1.39	1.38
IC	2	69	1.37	1.36	1.35	1.34	1.33	1.32	1.31	1.30	1.29	1.28
IC	2	79	1.27	1.26	1.25	1.24	1.23	1.23	1.22	1.21	1.20	1.20
IC	2	89	1.21	1.20								
IC	3	91	1.20	1.19	1.19	1.18	1.18	1.17	1.17	1.16	1.16	1.16
IC	3	101	1.15	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.13	1.12
IC	3	111	1.12	1.12	1.11	1.11	1.12	1.15	1.25	1.24	1.24	1.24
IC	3	121	1.24	1.23	1.23	1.23	1.22	1.22	1.22	1.22		
IC	4	129	1.22	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.20
IC	4	139	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.19
IC	4	149	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.18
IC	4	159	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
IC	4	169	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
IC	4	179	1.17	1.17	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
IC	4	189	1.19	1.19	1.19	1.18	1.18	1.18	1.18	1.18	1.18	1.18
IC	4	199	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.17	1.17
IC	4	209	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16
IC	4	219	1.16	1.16	1.16	1.16	1.16	1.17				
IC	8	405	1.20	1.20	1.20	1.19	1.19	1.19	1.20	1.20	1.23	1.22
IC	8	415	1.22	1.22	1.22	1.22	1.22	1.22	1.21	1.21	1.21	1.21
IC	8	425	1.21	1.21	1.21	1.21	1.20	1.20	1.20	1.20	1.20	1.20
IC	8	435	1.20	1.20	1.20	1.19	1.19	1.19	1.19	1.19	1.19	1.19
IC	8	445	1.19	1.19	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
IC	8	455	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.17	1.17	1.17
IC	8	465	1.17	1.17	1.17	1.18	1.20	1.20	1.20	1.20	1.20	1.20
IC	8	475	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
IC	8	485	1.19	1.19	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.17
IC	8	495	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
IC	8	505	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
IC	8	515	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.15	1.15
IC	8	525	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
IC	8	535	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.13	1.13
IC	8	545	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.11
IC	8	555	1.03	0.70								
BB	5	225	0.16	0.15	0.15	0.14	0.14	0.14	0.13	0.13	0.13	0.13
BB	5	235	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BB	5	245	0.13	0.14	0.14	0.14	0.15					
BB	6	250	0.17	0.25	0.32	0.38	0.44	0.50	0.56	0.61	0.65	0.70
BB	6	260	0.74	0.78	0.82	0.85	0.89	0.92	0.95	0.97	1.00	1.03
BB	6	270	1.05	1.07	1.10	1.12	1.14	1.16	1.17	1.19	1.21	1.22

BB	6	280	1.24	1.25	1.27	1.28	1.29					
BB	7	285	1.29	1.28	1.27	1.26	1.25	1.25	1.24	1.23	1.23	1.22
BB	7	295	1.21	1.21	1.20	1.20	1.19	1.18	1.18	1.17	1.17	1.16
BB	7	305	1.16	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.12	1.12
BB	7	315	1.11	1.11	1.10	1.10	1.10	1.09	1.09	1.09	1.08	1.08
BB	7	325	1.08	1.07	1.07	1.07	1.06	1.06	1.06	1.06	1.05	1.05
BB	7	335	1.05	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03
BB	7	345	1.02	1.02	1.02	1.02	1.01	1.01	1.01	1.03	1.02	1.02
BB	7	355	1.02	1.02	1.02	1.01	1.01	1.01	1.01	1.01	1.00	1.00
BB	7	365	1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.99	1.23	1.23
BB	7	375	1.23	1.23	1.23	1.23	1.22	1.22	1.22	1.22	1.22	1.22
BB	7	385	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.20	1.20	1.20
BB	7	395	1.20	1.20	1.20	1.19	1.19	1.19	1.45	1.45	1.44	1.44

INTERMEDIATE REPORT

Ammonia Nitrogen — LA-QUAL calibration for Gulf ICWW and Bayou Black

mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	1	11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	1	21	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	1	31	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12		
IC	2	39	0.10	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12
IC	2	49	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13
IC	2	59	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
IC	2	69	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13
IC	2	79	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	2	89	0.11	0.11								
IC	3	91	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	3	101	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	3	111	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.11	0.11	0.11
IC	3	121	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11		
IC	4	129	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12
IC	4	139	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	4	149	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	4	159	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	4	169	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	4	179	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	4	189	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	4	199	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	4	209	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	4	219	0.11	0.11	0.11	0.11	0.11	0.11				
IC	8	405	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	8	415	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	425	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	435	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11
IC	8	445	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	8	455	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	8	465	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	8	475	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	485	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12

IC	8	495	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	505	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	515	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	525	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	535	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	545	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	8	555	0.12	0.13								
BB	5	225	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BB	5	235	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BB	5	245	0.01	0.01	0.01	0.01	0.01					
BB	6	250	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04
BB	6	260	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06
BB	6	270	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08
BB	6	280	0.08	0.08	0.08	0.08	0.08					
BB	7	285	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.08
BB	7	295	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07
BB	7	305	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BB	7	315	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BB	7	325	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BB	7	335	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BB	7	345	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.84	0.75	0.67
BB	7	355	0.60	0.55	0.49	0.45	0.41	0.37	0.34	0.31	0.28	0.26
BB	7	365	0.24	0.22	0.20	0.19	0.18	0.17	0.16	0.15	0.12	0.11
BB	7	375	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10
BB	7	385	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
BB	7	395	0.09	0.09	0.09	0.09	0.09	0.09	0.12	0.12	0.12	0.12

INTERMEDIATE REPORT

Nitrate+Nitrite Nitrogen — LA-QUAL calibration for Gulf ICWW and Bayou Black

mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	2	39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	89	0.00	0.00								
IC	3	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	4	129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IC	4	189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	219	0.00	0.00	0.00	0.00	0.00	0.00				
IC	8	405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	415	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	515	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	555	0.00	0.00								
BB	5	225	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	245	0.00	0.00	0.00	0.00	0.00					
BB	6	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	280	0.00	0.00	0.00	0.00	0.00					
BB	7	285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	295	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	385	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

INTERMEDIATE REPORT

Total Nitrogen — LA-QUAL calibration for Gulf ICWW and Bayou Black

mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
IC	1	11	1.43	1.43	1.43	1.43	1.42	1.42	1.42	1.42	1.42	1.42
IC	1	21	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.44	1.44	1.45
IC	1	31	1.46	1.47	1.48	1.50	1.52	1.55	1.59	1.63		
IC	2	39	1.69	1.69	1.69	1.68	1.68	1.68	1.68	1.68	1.67	1.67
IC	2	49	1.67	1.67	1.66	1.66	1.66	1.66	1.65	1.65	1.65	1.64
IC	2	59	1.62	1.61	1.60	1.59	1.58	1.57	1.55	1.54	1.53	1.52

IC	2	69	1.51	1.50	1.48	1.47	1.46	1.45	1.44	1.43	1.42	1.41
IC	2	79	1.40	1.39	1.38	1.37	1.36	1.35	1.34	1.33	1.32	1.31
IC	2	89	1.32	1.31								
IC	3	91	1.31	1.30	1.30	1.29	1.29	1.28	1.28	1.27	1.27	1.27
IC	3	101	1.26	1.26	1.25	1.25	1.25	1.24	1.24	1.24	1.23	1.23
IC	3	111	1.23	1.22	1.22	1.22	1.23	1.25	1.35	1.35	1.35	1.35
IC	3	121	1.34	1.34	1.34	1.34	1.34	1.33	1.33	1.33		
IC	4	129	1.33	1.33	1.33	1.33	1.33	1.32	1.32	1.32	1.32	1.32
IC	4	139	1.32	1.32	1.32	1.32	1.32	1.32	1.31	1.31	1.31	1.31
IC	4	149	1.31	1.31	1.31	1.31	1.31	1.31	1.30	1.30	1.30	1.30
IC	4	159	1.30	1.30	1.30	1.30	1.30	1.30	1.29	1.29	1.29	1.29
IC	4	169	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28	1.28	1.28
IC	4	179	1.28	1.28	1.31	1.31	1.30	1.30	1.30	1.30	1.30	1.30
IC	4	189	1.30	1.30	1.30	1.30	1.30	1.30	1.29	1.29	1.29	1.29
IC	4	199	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28	1.28
IC	4	209	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
IC	4	219	1.28	1.27	1.27	1.27	1.27	1.28				
IC	8	405	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.34	1.34
IC	8	415	1.34	1.34	1.34	1.33	1.33	1.33	1.33	1.33	1.33	1.33
IC	8	425	1.33	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.31
IC	8	435	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.30	1.30	1.30
IC	8	445	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.29	1.29	1.29
IC	8	455	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.28	1.28	1.28
IC	8	465	1.28	1.28	1.28	1.29	1.31	1.31	1.31	1.31	1.31	1.31
IC	8	475	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.30	1.30	1.30
IC	8	485	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.29	1.29
IC	8	495	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
IC	8	505	1.29	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
IC	8	515	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.27	1.27
IC	8	525	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
IC	8	535	1.26	1.26	1.26	1.25	1.25	1.25	1.25	1.25	1.25	1.25
IC	8	545	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.24	1.23
IC	8	555	1.15	0.83								
BB	5	225	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.14	0.14
BB	5	235	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
BB	5	245	0.14	0.14	0.15	0.15	0.16					
BB	6	250	0.18	0.26	0.33	0.40	0.47	0.53	0.58	0.64	0.69	0.74
BB	6	260	0.78	0.82	0.86	0.90	0.94	0.97	1.00	1.03	1.06	1.09
BB	6	270	1.11	1.14	1.16	1.18	1.20	1.22	1.24	1.26	1.29	1.30
BB	6	280	1.32	1.33	1.35	1.36	1.37					
BB	7	285	1.36	1.36	1.35	1.34	1.33	1.32	1.32	1.32	1.31	1.30
BB	7	295	1.30	1.29	1.28	1.28	1.27	1.26	1.26	1.25	1.24	1.24
BB	7	305	1.23	1.23	1.22	1.22	1.21	1.21	1.20	1.20	1.20	1.19
BB	7	315	1.19	1.18	1.18	1.17	1.17	1.16	1.16	1.16	1.15	1.15
BB	7	325	1.14	1.14	1.14	1.13	1.13	1.13	1.13	1.12	1.12	1.12
BB	7	335	1.11	1.11	1.11	1.11	1.10	1.10	1.10	1.10	1.09	1.09
BB	7	345	1.09	1.09	1.08	1.08	1.08	1.08	1.08	1.86	1.77	1.69
BB	7	355	1.62	1.56	1.51	1.46	1.42	1.38	1.34	1.31	1.28	1.26
BB	7	365	1.24	1.22	1.20	1.18	1.18	1.16	1.15	1.14	1.35	1.35
BB	7	375	1.34	1.34	1.34	1.33	1.33	1.33	1.32	1.32	1.32	1.31

BB	7	385	1.31	1.31	1.31	1.30	1.30	1.30	1.30	1.29	1.29	1.29
BB	7	395	1.29	1.29	1.28	1.28	1.28	1.28	1.56	1.56	1.56	1.56

INTERMEDIATE REPORT

Chlorophyll a — LA-QUAL calibration for Gulf ICWW and Bayou Black

µg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	1	11	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	1	21	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	1	31	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00		
IC	2	39	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	49	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	59	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	69	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	79	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	89	20.00	20.00								
IC	3	91	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	3	101	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	3	111	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	3	121	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00		
IC	4	129	20.04	20.08	20.12	20.17	20.21	20.25	20.29	20.33	20.38	20.42
IC	4	139	20.46	20.50	20.54	20.58	20.62	20.67	20.71	20.75	20.79	20.83
IC	4	149	20.88	20.92	20.96	21.00	21.04	21.08	21.12	21.17	21.21	21.25
IC	4	159	21.29	21.33	21.38	21.42	21.46	21.50	21.54	21.58	21.62	21.67
IC	4	169	21.71	21.75	21.79	21.83	21.88	21.92	21.96	22.00	22.04	22.08
IC	4	179	22.12	22.17	22.21	22.25	22.29	22.33	22.38	22.42	22.46	22.50
IC	4	189	22.54	22.58	22.62	22.67	22.71	22.75	22.79	22.83	22.88	22.92
IC	4	199	22.96	23.00	23.04	23.08	23.12	23.17	23.21	23.25	23.29	23.33
IC	4	209	23.38	23.42	23.46	23.50	23.54	23.58	23.62	23.67	23.71	23.75
IC	4	219	23.79	23.83	23.88	23.92	23.96	24.00				
IC	8	405	23.98	23.96	23.94	23.92	23.90	23.88	23.86	23.84	23.82	23.80
IC	8	415	23.78	23.76	23.74	23.72	23.70	23.68	23.66	23.64	23.62	23.61
IC	8	425	23.59	23.57	23.55	23.53	23.51	23.49	23.47	23.45	23.43	23.41
IC	8	435	23.39	23.37	23.35	23.33	23.31	23.29	23.27	23.25	23.23	23.21
IC	8	445	23.19	23.17	23.15	23.13	23.11	23.09	23.07	23.05	23.03	23.01
IC	8	455	22.99	22.97	22.95	22.93	22.91	22.89	22.88	22.86	22.84	22.82
IC	8	465	22.80	22.78	22.76	22.74	22.72	22.70	22.68	22.66	22.64	22.62
IC	8	475	22.60	22.58	22.56	22.54	22.52	22.50	22.48	22.46	22.44	22.42
IC	8	485	22.40	22.38	22.36	22.34	22.32	22.30	22.28	22.26	22.24	22.22
IC	8	495	22.20	22.18	22.16	22.14	22.12	22.11	22.09	22.07	22.05	22.03
IC	8	505	22.01	21.99	21.97	21.95	21.93	21.91	21.89	21.87	21.85	21.83
IC	8	515	21.81	21.79	21.77	21.75	21.73	21.71	21.69	21.67	21.65	21.63
IC	8	525	21.61	21.59	21.57	21.55	21.53	21.51	21.49	21.47	21.45	21.43
IC	8	535	21.41	21.39	21.38	21.36	21.34	21.32	21.30	21.28	21.26	21.24
IC	8	545	21.22	21.20	21.18	21.16	21.14	21.12	21.10	21.08	21.06	21.04
IC	8	555	21.02	21.00								
BB	5	225	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
BB	5	235	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
BB	5	245	25.00	25.00	25.00	25.00	25.00					
BB	6	250	25.71	26.43	27.14	27.86	28.57	29.29	30.00	30.71	31.43	32.14

BB	6	260	32.86	33.57	34.29	35.00	35.71	36.43	37.14	37.86	38.57	39.29
BB	6	270	40.00	40.71	41.43	42.14	42.86	43.57	44.29	45.00	45.71	46.43
BB	6	280	47.14	47.86	48.57	49.29	50.00					
BB	7	285	49.78	49.57	49.35	49.13	48.92	48.70	48.48	48.27	48.05	47.83
BB	7	295	47.62	47.40	47.18	46.97	46.75	46.53	46.32	46.10	45.88	45.67
BB	7	305	45.45	45.23	45.02	44.80	44.58	44.37	44.15	43.93	43.72	43.50
BB	7	315	43.28	43.07	42.85	42.63	42.42	42.20	41.98	41.77	41.55	41.33
BB	7	325	41.12	40.90	40.68	40.47	40.25	40.03	39.82	39.60	39.38	39.17
BB	7	335	38.95	38.73	38.52	38.30	38.08	37.87	37.65	37.43	37.22	37.00
BB	7	345	36.78	36.57	36.35	36.13	35.92	35.70	35.48	35.27	35.05	34.83
BB	7	355	34.62	34.40	34.18	33.97	33.75	33.53	33.32	33.10	32.88	32.67
BB	7	365	32.45	32.23	32.02	31.80	31.58	31.37	31.15	30.93	30.72	30.50
BB	7	375	30.28	30.07	29.85	29.63	29.42	29.20	28.98	28.77	28.55	28.33
BB	7	385	28.12	27.90	27.68	27.47	27.25	27.03	26.82	26.60	26.38	26.17
BB	7	395	25.95	25.73	25.52	25.30	25.08	24.87	24.65	24.43	24.22	24.00

INTERMEDIATE REPORT

Temperature — LA-QUAL calibration for Gulf ICWW and Bayou Black

deg C — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	31.22	31.24	31.26	31.28	31.31	31.33	31.35	31.37	31.39	31.41
IC	1	11	31.43	31.45	31.47	31.49	31.52	31.54	31.56	31.58	31.60	31.62
IC	1	21	31.64	31.66	31.68	31.71	31.73	31.75	31.77	31.79	31.81	31.83
IC	1	31	31.85	31.87	31.89	31.92	31.94	31.96	31.98	32.00		
IC	2	39	32.00	32.00	32.01	32.01	32.01	32.01	32.01	32.02	32.02	32.02
IC	2	49	32.02	32.02	32.03	32.03	32.03	32.03	32.03	32.03	32.04	32.04
IC	2	59	32.04	32.04	32.04	32.05	32.05	32.05	32.05	32.05	32.06	32.06
IC	2	69	32.06	32.06	32.06	32.07	32.07	32.07	32.07	32.07	32.08	32.08
IC	2	79	32.08	32.08	32.08	32.08	32.09	32.09	32.09	32.09	32.09	32.10
IC	2	89	32.10	32.10								
IC	3	91	32.11	32.11	32.12	32.12	32.13	32.13	32.14	32.14	32.15	32.15
IC	3	101	32.16	32.16	32.17	32.17	32.18	32.18	32.19	32.19	32.20	32.21
IC	3	111	32.21	32.22	32.22	32.23	32.23	32.24	32.24	32.25	32.25	32.26
IC	3	121	32.26	32.27	32.27	32.28	32.28	32.29	32.29	32.30		
IC	4	129	32.30	32.29	32.29	32.28	32.28	32.27	32.27	32.27	32.26	32.26
IC	4	139	32.25	32.25	32.25	32.24	32.24	32.23	32.23	32.22	32.22	32.22
IC	4	149	32.21	32.21	32.20	32.20	32.20	32.19	32.19	32.18	32.18	32.17
IC	4	159	32.17	32.17	32.16	32.16	32.15	32.15	32.15	32.14	32.14	32.13
IC	4	169	32.13	32.12	32.12	32.12	32.11	32.11	32.10	32.10	32.10	32.09
IC	4	179	32.09	32.08	32.08	32.08	32.07	32.07	32.06	32.06	32.05	32.05
IC	4	189	32.05	32.04	32.04	32.03	32.03	32.02	32.02	32.02	32.01	32.01
IC	4	199	32.00	32.00	32.00	31.99	31.99	31.98	31.98	31.98	31.97	31.97
IC	4	209	31.96	31.96	31.95	31.95	31.95	31.94	31.94	31.93	31.93	31.92
IC	4	219	31.92	31.92	31.91	31.91	31.90	31.90				
IC	8	405	31.90	31.90	31.90	31.91	31.91	31.91	31.91	31.91	31.91	31.91
IC	8	415	31.91	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.93
IC	8	425	31.93	31.93	31.93	31.93	31.93	31.93	31.94	31.94	31.94	31.94
IC	8	435	31.94	31.94	31.94	31.94	31.95	31.95	31.95	31.95	31.95	31.95
IC	8	445	31.95	31.96	31.96	31.96	31.96	31.96	31.96	31.96	31.96	31.97
IC	8	455	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.98	31.98	31.98
IC	8	465	31.98	31.98	31.98	31.98	31.99	31.99	31.99	31.99	31.99	31.99

IC	8	475	31.99	31.99	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.01
IC	8	485	32.01	32.01	32.01	32.01	32.01	32.01	32.01	32.02	32.02	32.02
IC	8	495	32.02	32.02	32.02	32.02	32.02	32.03	32.03	32.03	32.03	32.03
IC	8	505	32.03	32.03	32.04	32.04	32.04	32.04	32.04	32.04	32.04	32.04
IC	8	515	32.05	32.05	32.05	32.05	32.05	32.05	32.05	32.06	32.06	32.06
IC	8	525	32.06	32.06	32.06	32.06	32.06	32.07	32.07	32.07	32.07	32.07
IC	8	535	32.07	32.07	32.07	32.08	32.08	32.08	32.08	32.08	32.08	32.08
IC	8	545	32.09	32.09	32.09	32.09	32.09	32.09	32.09	32.09	32.10	32.10
IC	8	555	32.10	32.10								
BB	5	225	32.10	32.09	32.09	32.08	32.08	32.08	32.07	32.07	32.06	32.06
BB	5	235	32.06	32.05	32.05	32.04	32.04	32.04	32.03	32.03	32.02	32.02
BB	5	245	32.02	32.01	32.01	32.00	32.00					
BB	6	250	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
BB	6	260	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
BB	6	270	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
BB	6	280	32.00	32.00	32.00	32.00	32.00					
BB	7	285	32.00	32.00	32.00	32.00	32.00	32.00	31.99	31.99	31.99	31.99
BB	7	295	31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.98	31.98
BB	7	305	31.98	31.98	31.98	31.98	31.98	31.98	31.98	31.98	31.98	31.98
BB	7	315	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97
BB	7	325	31.97	31.97	31.96	31.96	31.96	31.96	31.96	31.96	31.96	31.96
BB	7	335	31.96	31.96	31.96	31.95	31.95	31.95	31.95	31.95	31.95	31.95
BB	7	345	31.95	31.95	31.95	31.95	31.95	31.94	31.94	31.94	31.94	31.94
BB	7	355	31.94	31.94	31.94	31.94	31.94	31.94	31.94	31.93	31.93	31.93
BB	7	365	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.92
BB	7	375	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92
BB	7	385	31.92	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91
BB	7	395	31.91	31.91	31.91	31.90	31.90	31.90	31.90	31.90	31.90	31.90

INTERMEDIATE REPORT

Salinity — LA-QUAL calibration for Gulf ICWW and Bayou Black

ppt — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	2	39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	89	0.00	0.00								
IC	3	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	4	129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IC	4	169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	219	0.00	0.00	0.00	0.00	0.00	0.00				
IC	8	405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	415	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	515	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	555	0.00	0.00								
BB	5	225	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	245	0.00	0.00	0.00	0.00	0.00					
BB	6	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	280	0.00	0.00	0.00	0.00	0.00					
BB	7	285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	295	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	385	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

INTERMEDIATE REPORT

Reaeration Rate — LA-QUAL calibration for Gulf ICWW and Bayou Black

per day — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.092	0.092	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
IC	1	11	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
IC	1	21	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
IC	1	31	0.093	0.093	0.094	0.094	0.094	0.094	0.094	0.094		
IC	2	39	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065

IC	2	49	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
IC	2	59	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
IC	2	69	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
IC	2	79	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
IC	2	89	0.065	0.065								
IC	3	91	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	3	101	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	3	111	0.068	0.068	0.068	0.068	0.068	0.069	0.069	0.069	0.069	0.069
IC	3	121	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069		
IC	4	129	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
IC	4	139	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
IC	4	149	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
IC	4	159	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
IC	4	169	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
IC	4	179	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
IC	4	189	0.072	0.072	0.072	0.072	0.072	0.072	0.071	0.071	0.071	0.071
IC	4	199	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071
IC	4	209	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071
IC	4	219	0.071	0.071	0.071	0.071	0.071	0.071				
IC	8	405	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	415	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	425	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	435	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	445	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	455	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	465	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	475	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	485	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	495	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	505	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	515	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	525	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	535	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	545	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	555	0.068	0.068								
BB	5	225	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191
BB	5	235	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191
BB	5	245	0.191	0.191	0.191	0.191	0.191					
BB	6	250	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	6	260	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	6	270	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	6	280	0.751	0.751	0.751	0.751	0.751					
BB	7	285	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	7	295	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	7	305	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	7	315	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	7	325	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	7	335	0.751	0.751	0.751	0.751	0.751	0.751	0.750	0.750	0.750	0.750
BB	7	345	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
BB	7	355	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750

BB	7	365	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
BB	7	375	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
BB	7	385	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
BB	7	395	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750

INTERMEDIATE REPORT

BOD Decay Rate per day — LA-QUAL calibration for Gulf ICWW and Bayou Black; FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
IC	1	11	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
IC	1	21	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	1	31	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26		
IC	2	39	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	2	49	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	2	59	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	2	69	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	2	79	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	2	89	0.26	0.26								
IC	3	91	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	3	101	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	3	111	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	3	121	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26		
IC	4	129	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	139	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	149	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	159	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	169	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	179	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	189	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	199	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	209	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	219	0.26	0.26	0.26	0.26	0.26	0.26				
IC	8	405	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	415	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	425	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	435	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	445	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	455	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	465	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	475	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	485	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	495	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	505	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	515	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	525	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	535	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	545	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	555	0.26	0.26								
BB	5	225	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	5	235	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26

BB	5	245	0.26	0.26	0.26	0.26	0.26					
BB	6	250	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	6	260	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	6	270	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	6	280	0.26	0.26	0.26	0.26	0.26					
BB	7	285	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	295	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	305	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	315	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	325	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	335	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	345	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	355	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	365	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	375	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	385	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	395	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29

INTERMEDIATE REPORT

BOD Settling Rate per day — LA-QUAL calibration for Gulf ICWW and Bayou Black; FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	2	39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	89	0.00	0.00								
IC	3	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	4	129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	219	0.00	0.00	0.00	0.00	0.00	0.00				
IC	8	405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	415	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IC	8	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	515	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	555	0.00	0.00								
BB	5	225	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	245	0.00	0.00	0.00	0.00	0.00					
BB	6	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	280	0.00	0.00	0.00	0.00	0.00					
BB	7	285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	295	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	385	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	395	0.00	0.00	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 calibration for Gulf ICWW and Bayou Black — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	1	11	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28
IC	1	21	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
IC	1	31	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.26		
IC	2	39	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25
IC	2	49	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
IC	2	59	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
IC	2	69	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27
IC	2	79	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28
IC	2	89	0.28	0.28								
IC	3	91	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	3	101	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	3	111	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.27	0.27	0.27
IC	3	121	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26		
IC	4	129	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	139	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26

IC	4	149	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	159	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	169	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	179	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	4	189	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	4	199	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	4	209	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	4	219	0.27	0.27	0.27	0.27	0.27	0.27				
IC	8	405	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	8	415	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	8	425	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	435	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	445	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	455	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	465	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25
IC	8	475	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
IC	8	485	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
IC	8	495	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
IC	8	505	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
IC	8	515	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
IC	8	525	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
IC	8	535	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
IC	8	545	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
IC	8	555	0.24	0.25								
BB	5	225	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
BB	5	235	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
BB	5	245	0.45	0.45	0.45	0.45	0.45					
BB	6	250	0.45	0.45	0.45	0.44	0.43	0.43	0.43	0.42	0.42	0.42
BB	6	260	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
BB	6	270	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
BB	6	280	0.42	0.42	0.43	0.43	0.43					
BB	7	285	0.42	0.42	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
BB	7	295	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.42	0.42
BB	7	305	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
BB	7	315	0.42	0.42	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.41
BB	7	325	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
BB	7	335	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
BB	7	345	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.40	0.39	0.38
BB	7	355	0.38	0.38	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38
BB	7	365	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.44	0.44
BB	7	375	0.44	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.41	0.41
BB	7	385	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.40	0.40	0.40
BB	7	395	0.39	0.39	0.39	0.39	0.39	0.39	0.36	0.36	0.36	0.36

INTERMEDIATE REPORT

Sediment Oxygen Demand — LA-QUAL calibration for Gulf ICWW and Bayou Black

$g/m^2/d$ — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.05	2.05	2.05
IC	1	11	2.05	2.06	2.06	2.06	2.07	2.07	2.07	2.07	2.08	2.08
IC	1	21	2.08	2.08	2.09	2.09	2.09	2.10	2.10	2.10	2.10	2.11

IC	1	31	2.11	2.11	2.12	2.12	2.12	2.12	2.13	2.13		
IC	2	39	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
IC	2	49	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
IC	2	59	2.13	2.13	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14
IC	2	69	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14
IC	2	79	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14
IC	2	89	2.14	2.14								
IC	3	91	4.29	4.29	4.29	4.29	4.29	4.29	4.30	4.30	4.30	4.30
IC	3	101	4.30	4.30	4.30	4.31	4.31	4.31	4.31	4.31	4.31	4.31
IC	3	111	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.33	4.33	4.33
IC	3	121	4.33	4.33	4.33	4.33	4.34	4.34	4.34	4.34		
IC	4	129	4.77	4.77	4.77	4.77	4.77	4.77	4.76	4.76	4.76	4.76
IC	4	139	4.76	4.76	4.76	4.76	4.75	4.75	4.75	4.75	4.75	4.75
IC	4	149	4.75	4.75	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74
IC	4	159	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.72	4.72
IC	4	169	4.72	4.72	4.72	4.72	4.72	4.72	4.71	4.71	4.71	4.71
IC	4	179	4.71	4.71	4.71	4.71	4.70	4.70	4.70	4.70	4.70	4.70
IC	4	189	4.70	4.70	4.70	4.69	4.69	4.69	4.69	4.69	4.69	4.69
IC	4	199	4.69	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.67
IC	4	209	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.66	4.66	4.66
IC	4	219	4.66	4.66	4.66	4.66	4.66	4.65				
IC	8	405	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48
IC	8	415	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48
IC	8	425	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48
IC	8	435	1.48	1.48	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
IC	8	445	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
IC	8	455	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
IC	8	465	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
IC	8	475	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
IC	8	485	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
IC	8	495	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
IC	8	505	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
IC	8	515	1.49	1.49	1.49	1.50	1.50	1.50	1.50	1.50	1.50	1.50
IC	8	525	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
IC	8	535	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
IC	8	545	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
IC	8	555	1.50	1.50								
BB	5	225	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
BB	5	235	1.50	1.50	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BB	5	245	1.49	1.49	1.49	1.49	1.49					
BB	6	250	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BB	6	260	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BB	6	270	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BB	6	280	1.49	1.49	1.49	1.49	1.49					
BB	7	285	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77
BB	7	295	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.76
BB	7	305	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	315	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	325	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	335	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76

BB	7	345	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	355	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	365	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.75	2.75
BB	7	375	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
BB	7	385	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
BB	7	395	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75

EXPANDED CAPSULE SUMMARY FOR ICWW

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	ADVEC MEAN 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		0.255	31.2	0.0	6.7	3.7	0.0	1.3	0.1	20.0													
1 IC	1	93.75	0.281	31.2	0.0	6.6	2.4	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.092	0.25	0.00	0.00	0.00	0.27	2.03
2 IC	1	93.50	0.308	31.2	0.0	6.6	2.4	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.092	0.25	0.00	0.00	0.00	0.27	2.03
3 IC	1	93.25	0.334	31.3	0.0	6.6	2.4	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.03
4 IC	1	93.00	0.360	31.3	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.04
5 IC	1	92.75	0.387	31.3	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.04
6 IC	1	92.50	0.413	31.3	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.04
7 IC	1	92.25	0.439	31.3	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.04
8 IC	1	92.00	0.466	31.4	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.05
9 IC	1	91.75	0.492	31.4	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.05
10 IC	1	91.50	0.518	31.4	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.05
11 IC	1	91.25	0.544	31.4	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.05
12 IC	1	91.00	0.571	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.06
13 IC	1	90.75	0.597	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.06
14 IC	1	90.50	0.623	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.28	2.06
15 IC	1	90.25	0.650	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.28	2.07
16 IC	1	90.00	0.676	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.28	2.07
17 IC	1	89.75	0.702	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.26	0.00	0.00	0.00	0.28	2.07
18 IC	1	89.50	0.729	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.26	0.00	0.00	0.00	0.28	2.07
19 IC	1	89.25	0.755	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.26	0.00	0.00	0.00	0.28	2.08
20 IC	1	89.00	0.781	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.26	0.00	0.00	0.00	0.28	2.08
21 IC	1	88.75	0.808	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.08
22 IC	1	88.50	0.834	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.08
23 IC	1	88.25	0.860	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.09
24 IC	1	88.00	0.887	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.09
25 IC	1	87.75	0.913	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.09
26 IC	1	87.50	0.939	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.10
27 IC	1	87.25	0.966	31.8	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.10
28 IC	1	87.00	0.992	31.8	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.10
29 IC	1	86.75	1.018	31.8	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.10
30 IC	1	86.50	1.044	31.8	0.0	6.5	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.11
31 IC	1	86.25	1.071	31.9	0.0	6.4	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.11
32 IC	1	86.00	1.097	31.9	0.0	6.3	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.11
33 IC	1	85.75	1.123	31.9	0.0	6.2	2.3	0.0	1.4	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.12
34 IC	1	85.50	1.150	31.9	0.0	6.0	2.4	0.0	1.4	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.12
35 IC	1	85.25	1.176	31.9	0.0	5.8	2.5	0.0	1.4	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.12
36 IC	1	85.00	1.202	32.0	0.0	5.5	2.7	0.0	1.4	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.27	2.12
37 IC	1	84.75	1.229	32.0	0.0	5.1	3.1	0.0	1.5	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.27	2.13
38 IC	1	84.50	1.255	32.0	0.0	4.7	3.7	0.0	1.5	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.26	2.13

WASTELOAD # 039 (Bayou Boeuff) ENTERS HERE

39	IC	2	84.25	49.177	32.0	0.0	4.4	4.7	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
40	IC	2	84.00	49.193	32.0	0.0	4.3	4.6	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
41	IC	2	83.75	49.209	32.0	0.0	4.3	4.5	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
42	IC	2	83.50	49.226	32.0	0.0	4.2	4.4	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
43	IC	2	83.25	49.242	32.0	0.0	4.2	4.4	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
44	IC	2	83.00	49.259	32.0	0.0	4.1	4.3	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
45	IC	2	82.75	49.275	32.0	0.0	4.1	4.2	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
46	IC	2	82.50	49.292	32.0	0.0	4.0	4.1	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.13
47	IC	2	82.25	49.308	32.0	0.0	4.0	4.1	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
48	IC	2	82.00	49.325	32.0	0.0	4.0	4.0	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
49	IC	2	81.75	49.341	32.0	0.0	3.9	3.9	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
50	IC	2	81.50	49.357	32.0	0.0	3.9	3.9	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
51	IC	2	81.25	49.374	32.0	0.0	3.9	3.8	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
52	IC	2	81.00	49.390	32.0	0.0	3.9	3.7	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
53	IC	2	80.75	49.407	32.0	0.0	3.8	3.7	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
54	IC	2	80.50	49.423	32.0	0.0	3.8	3.6	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
55	IC	2	80.25	49.440	32.0	0.0	3.8	3.6	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
56	IC	2	80.00	49.456	32.0	0.0	3.8	3.5	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
DIVERSION # 057 (Bayou Chene) LEAVES HERE																									
57	IC	2	79.75	12.997	32.0	0.0	3.8	3.5	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
58	IC	2	79.50	13.013	32.0	0.0	3.8	3.3	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
59	IC	2	79.25	13.030	32.0	0.0	3.8	3.2	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
60	IC	2	79.00	13.046	32.0	0.0	3.8	3.1	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.13
61	IC	2	78.75	13.062	32.0	0.0	3.8	3.0	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.14
62	IC	2	78.50	13.079	32.0	0.0	3.9	2.9	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.14
63	IC	2	78.25	13.095	32.0	0.0	3.9	2.8	0.0	1.4	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.25	2.14
64	IC	2	78.00	13.112	32.0	0.0	4.0	2.8	0.0	1.4	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
65	IC	2	77.75	13.128	32.1	0.0	4.1	2.7	0.0	1.4	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
66	IC	2	77.50	13.145	32.1	0.0	4.1	2.7	0.0	1.4	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
67	IC	2	77.25	13.161	32.1	0.0	4.2	2.6	0.0	1.4	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
68	IC	2	77.00	13.178	32.1	0.0	4.3	2.6	0.0	1.4	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
69	IC	2	76.75	13.194	32.1	0.0	4.3	2.6	0.0	1.4	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
70	IC	2	76.50	13.210	32.1	0.0	4.4	2.5	0.0	1.4	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
71	IC	2	76.25	13.227	32.1	0.0	4.5	2.5	0.0	1.3	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14

EXPANDED CAPSULE SUMMARY FOR ICWW

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
72	IC	2	76.00	13.243	32.1	0.0	4.6	2.5	0.0	1.3	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
73	IC	2	75.75	13.260	32.1	0.0	4.6	2.5	0.0	1.3	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.26	2.14
74	IC	2	75.50	13.276	32.1	0.0	4.7	2.5	0.0	1.3	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14
75	IC	2	75.25	13.293	32.1	0.0	4.8	2.4	0.0	1.3	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14
76	IC	2	75.00	13.309	32.1	0.0	4.9	2.4	0.0	1.3	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14
77	IC	2	74.75	13.326	32.1	0.0	4.9	2.4	0.0	1.3	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14
78	IC	2	74.50	13.342	32.1	0.0	5.0	2.4	0.0	1.3	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14
79	IC	2	74.25	13.358	32.1	0.0	5.1	2.4	0.0	1.3	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14
80	IC	2	74.00	13.375	32.1	0.0	5.2	2.4	0.0	1.3	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14
81	IC	2	73.75	13.391	32.1	0.0	5.2	2.4	0.0	1.3	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14
82	IC	2	73.50	13.408	32.1	0.0	5.3	2.4	0.0	1.2	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14
83	IC	2	73.25	13.424	32.1	0.0	5.4	2.4	0.0	1.2	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14

84	IC	2	73.00	13.441	32.1	0.0	5.4	2.4	0.0	1.2	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14
85	IC	2	72.75	13.457	32.1	0.0	5.5	2.4	0.0	1.2	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.27	2.14
86	IC	2	72.50	13.474	32.1	0.0	5.5	2.4	0.0	1.2	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.28	2.14
87	IC	2	72.25	13.490	32.1	0.0	5.6	2.4	0.0	1.2	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.28	2.14
88	IC	2	72.00	13.506	32.1	0.0	5.7	2.4	0.0	1.2	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.28	2.14
WASTELOAD # 089 (Unnamed Canal) ENTERS HERE																									
89	IC	2	71.75	15.080	32.1	0.0	5.7	2.7	0.0	1.2	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.28	2.14
90	IC	2	71.50	15.096	32.1	0.0	5.7	2.6	0.0	1.2	0.1	20.0	0.5	13.35	209.1	0.005	0.005	7.3	0.065	0.26	0.00	0.00	0.00	0.28	2.14
91	IC	3	71.25	15.113	32.1	0.0	5.6	2.6	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.28	4.29
92	IC	3	71.00	15.129	32.1	0.0	5.5	2.6	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.28	4.29
93	IC	3	70.75	15.146	32.1	0.0	5.4	2.5	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.29
94	IC	3	70.50	15.162	32.1	0.0	5.3	2.5	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.29
95	IC	3	70.25	15.179	32.1	0.0	5.3	2.5	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.29
96	IC	3	70.00	15.195	32.1	0.0	5.2	2.5	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.29
97	IC	3	69.75	15.212	32.1	0.0	5.2	2.5	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30
98	IC	3	69.50	15.228	32.1	0.0	5.1	2.5	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30
99	IC	3	69.25	15.244	32.1	0.0	5.1	2.4	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30
100	IC	3	69.00	15.261	32.2	0.0	5.0	2.4	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30
101	IC	3	68.75	15.277	32.2	0.0	5.0	2.4	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30
102	IC	3	68.50	15.294	32.2	0.0	5.0	2.4	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30
103	IC	3	68.25	15.310	32.2	0.0	4.9	2.4	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.30
104	IC	3	68.00	15.327	32.2	0.0	4.9	2.4	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31
105	IC	3	67.75	15.343	32.2	0.0	4.9	2.4	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31
106	IC	3	67.50	15.360	32.2	0.0	4.9	2.4	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31
107	IC	3	67.25	15.376	32.2	0.0	4.9	2.4	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31
108	IC	3	67.00	15.393	32.2	0.0	4.9	2.4	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31
109	IC	3	66.75	15.409	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31
110	IC	3	66.50	15.425	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.31
111	IC	3	66.25	15.442	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.32
112	IC	3	66.00	15.458	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.32
113	IC	3	65.75	15.475	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.32
114	IC	3	65.50	15.491	32.2	0.0	4.8	2.4	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.32
115	IC	3	65.25	15.508	32.2	0.0	4.8	2.5	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.27	4.32
116	IC	3	65.00	15.524	32.2	0.0	4.9	2.8	0.0	1.1	0.1	20.0	0.3	12.77	395.3	0.003	0.003	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.32
WASTELOAD # 117 (Copasaw Canal) ENTERS HERE																									
117	IC	3	64.75	30.829	32.2	0.0	5.4	4.0	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.28	4.32
118	IC	3	64.50	30.846	32.2	0.0	5.2	3.8	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
119	IC	3	64.25	30.862	32.3	0.0	5.0	3.7	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
120	IC	3	64.00	30.879	32.3	0.0	4.9	3.5	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
121	IC	3	63.75	30.895	32.3	0.0	4.7	3.4	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
122	IC	3	63.50	30.912	32.3	0.0	4.6	3.3	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
123	IC	3	63.25	30.928	32.3	0.0	4.5	3.2	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
124	IC	3	63.00	30.945	32.3	0.0	4.5	3.1	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.27	4.33
125	IC	3	62.75	30.961	32.3	0.0	4.4	3.0	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.26	4.34
126	IC	3	62.50	30.977	32.3	0.0	4.3	3.0	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.26	4.34
127	IC	3	62.25	30.994	32.3	0.0	4.3	2.9	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.26	4.34
128	IC	3	62.00	31.010	32.3	0.0	4.2	2.8	0.0	1.2	0.1	20.0	0.3	12.77	395.3	0.006	0.006	7.3	0.069	0.26	0.00	0.00	0.00	0.26	4.34
129	IC	4	61.75	31.027	32.3	0.0	4.2	2.8	0.0	1.2	0.1	20.0	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.77
130	IC	4	61.50	31.043	32.3	0.0	4.2	2.8	0.0	1.2	0.1	20.1	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.77
131	IC	4	61.25	31.060	32.3	0.0	4.2	2.8	0.0	1.2	0.1	20.1	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.77

132	IC	4	61.00	31.076	32.3	0.0	4.1	2.7	0.0	1.2	0.1	20.2	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.77
133	IC	4	60.75	31.093	32.3	0.0	4.1	2.7	0.0	1.2	0.1	20.2	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.77
134	IC	4	60.50	31.109	32.3	0.0	4.1	2.7	0.0	1.2	0.1	20.2	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.77
135	IC	4	60.25	31.125	32.3	0.0	4.1	2.7	0.0	1.2	0.1	20.3	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
136	IC	4	60.00	31.142	32.3	0.0	4.1	2.6	0.0	1.2	0.1	20.3	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
137	IC	4	59.75	31.158	32.3	0.0	4.1	2.6	0.0	1.2	0.1	20.4	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
138	IC	4	59.50	31.175	32.3	0.0	4.1	2.6	0.0	1.2	0.1	20.4	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
139	IC	4	59.25	31.191	32.3	0.0	4.1	2.6	0.0	1.2	0.1	20.5	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
140	IC	4	59.00	31.208	32.2	0.0	4.1	2.6	0.0	1.2	0.1	20.5	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
141	IC	4	58.75	31.224	32.2	0.0	4.1	2.6	0.0	1.2	0.1	20.5	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
142	IC	4	58.50	31.240	32.2	0.0	4.1	2.5	0.0	1.2	0.1	20.6	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.76
143	IC	4	58.25	31.257	32.2	0.0	4.1	2.5	0.0	1.2	0.1	20.6	0.3	12.19	190.0	0.013	0.013	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75

EXPANDED CAPSULE SUMMARY FOR ICWW

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
144	IC	4	58.00	31.273	32.2	0.0	4.1	2.5	0.0	1.2	0.1	20.7	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
145	IC	4	57.75	31.290	32.2	0.0	4.1	2.5	0.0	1.2	0.1	20.7	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
146	IC	4	57.50	31.306	32.2	0.0	4.1	2.5	0.0	1.2	0.1	20.8	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
147	IC	4	57.25	31.323	32.2	0.0	4.1	2.5	0.0	1.2	0.1	20.8	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
148	IC	4	57.00	31.339	32.2	0.0	4.1	2.5	0.0	1.2	0.1	20.8	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
149	IC	4	56.75	31.356	32.2	0.0	4.1	2.5	0.0	1.2	0.1	20.9	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
150	IC	4	56.50	31.372	32.2	0.0	4.1	2.5	0.0	1.2	0.1	20.9	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.75
151	IC	4	56.25	31.388	32.2	0.0	4.1	2.5	0.0	1.2	0.1	21.0	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
152	IC	4	56.00	31.405	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.0	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
153	IC	4	55.75	31.421	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.0	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
154	IC	4	55.50	31.438	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.1	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
155	IC	4	55.25	31.454	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.1	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
156	IC	4	55.00	31.471	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.2	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
157	IC	4	54.75	31.487	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.2	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
158	IC	4	54.50	31.503	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.2	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.74
159	IC	4	54.25	31.520	32.2	0.0	4.1	2.4	0.0	1.2	0.1	21.3	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
160	IC	4	54.00	31.536	32.2	0.0	4.2	2.4	0.0	1.2	0.1	21.3	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
161	IC	4	53.75	31.553	32.2	0.0	4.2	2.4	0.0	1.2	0.1	21.4	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
162	IC	4	53.50	31.569	32.2	0.0	4.2	2.4	0.0	1.2	0.1	21.4	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
163	IC	4	53.25	31.586	32.2	0.0	4.2	2.4	0.0	1.2	0.1	21.5	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
164	IC	4	53.00	31.602	32.1	0.0	4.2	2.4	0.0	1.2	0.1	21.5	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
165	IC	4	52.75	31.619	32.1	0.0	4.2	2.4	0.0	1.2	0.1	21.5	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
166	IC	4	52.50	31.635	32.1	0.0	4.2	2.4	0.0	1.2	0.1	21.6	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.73
167	IC	4	52.25	31.651	32.1	0.0	4.3	2.4	0.0	1.2	0.1	21.6	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
168	IC	4	52.00	31.668	32.1	0.0	4.3	2.4	0.0	1.2	0.1	21.7	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
169	IC	4	51.75	31.684	32.1	0.0	4.3	2.4	0.0	1.2	0.1	21.7	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
170	IC	4	51.50	31.701	32.1	0.0	4.3	2.4	0.0	1.2	0.1	21.8	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
171	IC	4	51.25	31.717	32.1	0.0	4.3	2.4	0.0	1.2	0.1	21.8	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
172	IC	4	51.00	31.734	32.1	0.0	4.3	2.4	0.0	1.2	0.1	21.8	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
173	IC	4	50.75	31.750	32.1	0.0	4.3	2.3	0.0	1.2	0.1	21.9	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
174	IC	4	50.50	31.766	32.1	0.0	4.4	2.3	0.0	1.2	0.1	21.9	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.72
175	IC	4	50.25	31.783	32.1	0.0	4.4	2.3	0.0	1.2	0.1	22.0	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.71
176	IC	4	50.00	31.799	32.1	0.0	4.4	2.3	0.0	1.2	0.1	22.0	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.71
177	IC	4	49.75	31.816	32.1	0.0	4.4	2.3	0.0	1.2	0.1	22.0	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.71

178	IC	4	49.50	31.832	32.1	0.0	4.4	2.3	0.0	1.2	0.1	22.1	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.71
179	IC	4	49.25	31.849	32.1	0.0	4.5	2.3	0.0	1.2	0.1	22.1	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.71
180	IC	4	49.00	31.865	32.1	0.0	4.5	2.4	0.0	1.2	0.1	22.2	0.3	12.19	190.0	0.014	0.014	7.3	0.072	0.26	0.00	0.00	0.00	0.26	4.71

WASTELOAD # 181 (Minors Canal South) ENTERS HERE
DIVERSION # 181 (Minors Canal North) LEAVES HERE

181	IC	4	48.75	35.831	32.1	0.0	5.2	2.9	0.0	1.2	0.1	22.2	0.3	12.19	190.0	0.015	0.015	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.71
182	IC	4	48.50	35.848	32.1	0.0	5.2	2.9	0.0	1.2	0.1	22.2	0.3	12.19	190.0	0.015	0.015	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.71
183	IC	4	48.25	35.864	32.1	0.0	5.1	2.8	0.0	1.2	0.1	22.3	0.3	12.19	190.0	0.015	0.015	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
184	IC	4	48.00	35.880	32.1	0.0	5.1	2.8	0.0	1.2	0.1	22.3	0.3	12.19	190.0	0.015	0.015	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
185	IC	4	47.75	35.897	32.1	0.0	5.1	2.8	0.0	1.2	0.1	22.4	0.3	12.19	190.0	0.015	0.015	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
186	IC	4	47.50	35.913	32.1	0.0	5.1	2.8	0.0	1.2	0.1	22.4	0.3	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
187	IC	4	47.25	35.930	32.1	0.0	5.1	2.8	0.0	1.2	0.1	22.5	0.3	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
188	IC	4	47.00	35.946	32.0	0.0	5.1	2.7	0.0	1.2	0.1	22.5	0.3	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
189	IC	4	46.75	35.963	32.0	0.0	5.1	2.7	0.0	1.2	0.1	22.5	0.3	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
190	IC	4	46.50	35.979	32.0	0.0	5.1	2.7	0.0	1.2	0.1	22.6	0.3	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
191	IC	4	46.25	35.996	32.0	0.0	5.1	2.7	0.0	1.2	0.1	22.6	0.3	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.70
192	IC	4	46.00	36.012	32.0	0.0	5.1	2.7	0.0	1.2	0.1	22.7	0.3	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.69
193	IC	4	45.75	36.028	32.0	0.0	5.0	2.6	0.0	1.2	0.1	22.7	0.3	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.69
194	IC	4	45.50	36.045	32.0	0.0	5.0	2.6	0.0	1.2	0.1	22.8	0.3	12.19	190.0	0.016	0.016	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.69
195	IC	4	45.25	36.061	32.0	0.0	5.0	2.6	0.0	1.2	0.1	22.8	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.69
196	IC	4	45.00	36.078	32.0	0.0	5.0	2.6	0.0	1.2	0.1	22.8	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.69
197	IC	4	44.75	36.094	32.0	0.0	5.1	2.6	0.0	1.2	0.1	22.9	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.69
198	IC	4	44.50	36.111	32.0	0.0	5.1	2.6	0.0	1.2	0.1	22.9	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.69
199	IC	4	44.25	36.127	32.0	0.0	5.1	2.6	0.0	1.2	0.1	23.0	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.69
200	IC	4	44.00	36.143	32.0	0.0	5.1	2.6	0.0	1.2	0.1	23.0	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
201	IC	4	43.75	36.160	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.0	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
202	IC	4	43.50	36.176	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.1	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
203	IC	4	43.25	36.193	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.1	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
204	IC	4	43.00	36.209	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.2	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
205	IC	4	42.75	36.226	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.2	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
206	IC	4	42.50	36.242	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.2	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
207	IC	4	42.25	36.259	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.3	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.68
208	IC	4	42.00	36.275	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.3	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
209	IC	4	41.75	36.291	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.4	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
210	IC	4	41.50	36.308	32.0	0.0	5.1	2.5	0.0	1.2	0.1	23.4	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
211	IC	4	41.25	36.324	32.0	0.0	5.2	2.5	0.0	1.2	0.1	23.5	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
212	IC	4	41.00	36.341	31.9	0.0	5.2	2.5	0.0	1.2	0.1	23.5	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
213	IC	4	40.75	36.357	31.9	0.0	5.2	2.4	0.0	1.2	0.1	23.5	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
214	IC	4	40.50	36.374	31.9	0.0	5.2	2.4	0.0	1.2	0.1	23.6	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67
215	IC	4	40.25	36.390	31.9	0.0	5.2	2.4	0.0	1.2	0.1	23.6	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.67

EXPANDED CAPSULE SUMMARY FOR ICWW

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
216	IC	4	40.00	36.406	31.9	0.0	5.2	2.4	0.0	1.2	0.1	23.7	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
217	IC	4	39.75	36.423	31.9	0.0	5.2	2.4	0.0	1.2	0.1	23.7	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
218	IC	4	39.50	36.439	31.9	0.0	5.3	2.4	0.0	1.2	0.1	23.8	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
219	IC	4	39.25	36.456	31.9	0.0	5.3	2.4	0.0	1.2	0.1	23.8	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
220	IC	4	39.00	36.472	31.9	0.0	5.3	2.4	0.0	1.2	0.1	23.8	0.3	12.19	190.0	0.016	0.016	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66

DIVERSION # 221 (Houma Nav. Can.) LEAVES HERE

221	IC	4	38.75	12.678	31.9	0.0	5.3	2.4	0.0	1.2	0.1	23.9	0.3	12.19	190.0	0.005	0.005	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
222	IC	4	38.50	12.694	31.9	0.0	5.3	2.4	0.0	1.2	0.1	23.9	0.3	12.19	190.0	0.005	0.005	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
WASTELOAD # 223 (PS ICWW#1) ENTERS HERE																									
223	IC	4	38.25	12.711	31.9	0.0	5.4	2.4	0.0	1.2	0.1	24.0	0.3	12.19	190.0	0.005	0.005	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.66
224	IC	4	38.00	12.727	31.9	0.0	5.3	2.6	0.0	1.2	0.1	24.0	0.3	12.19	190.0	0.005	0.005	7.3	0.071	0.26	0.00	0.00	0.00	0.27	4.65
TRIBUTARY # 225 (Bayou Black) ENTERS HERE																									
405	IC	8	37.75	14.977	31.9	0.0	5.1	3.2	0.0	1.2	0.1	24.0	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
406	IC	8	37.50	14.999	31.9	0.0	5.2	3.2	0.0	1.2	0.1	24.0	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
407	IC	8	37.25	15.020	31.9	0.0	5.2	3.3	0.0	1.2	0.1	23.9	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
408	IC	8	37.00	15.042	31.9	0.0	5.3	3.3	0.0	1.2	0.1	23.9	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
409	IC	8	36.75	15.063	31.9	0.0	5.3	3.4	0.0	1.2	0.1	23.9	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
410	IC	8	36.50	15.085	31.9	0.0	5.3	3.4	0.0	1.2	0.1	23.9	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
411	IC	8	36.25	15.106	31.9	0.0	5.3	3.5	0.0	1.2	0.1	23.9	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
412	IC	8	36.00	15.127	31.9	0.0	5.3	3.6	0.0	1.2	0.1	23.8	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
WASTELOAD # 413 (Bayou Terrebonne W.) ENTERS HERE																									
DIVERSION # 413 (Bayou Terrebonne E.) LEAVES HERE																									
413	IC	8	35.75	15.602	31.9	0.0	5.1	4.0	0.0	1.2	0.1	23.8	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
414	IC	8	35.50	15.623	31.9	0.0	5.1	3.9	0.0	1.2	0.1	23.8	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
415	IC	8	35.25	15.645	31.9	0.0	5.1	3.9	0.0	1.2	0.1	23.8	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
416	IC	8	35.00	15.666	31.9	0.0	5.0	3.9	0.0	1.2	0.1	23.8	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
WASTELOAD # 417 (LA0111376) ENTERS HERE																									
417	IC	8	34.75	15.688	31.9	0.0	5.0	3.9	0.0	1.2	0.1	23.7	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
418	IC	8	34.50	15.709	31.9	0.0	5.0	3.9	0.0	1.2	0.1	23.7	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
419	IC	8	34.25	15.730	31.9	0.0	5.0	3.9	0.0	1.2	0.1	23.7	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
420	IC	8	34.00	15.752	31.9	0.0	5.0	3.9	0.0	1.2	0.1	23.7	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
421	IC	8	33.75	15.773	31.9	0.0	5.0	3.9	0.0	1.2	0.1	23.7	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
422	IC	8	33.50	15.795	31.9	0.0	5.0	3.9	0.0	1.2	0.1	23.6	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
423	IC	8	33.25	15.816	31.9	0.0	5.0	3.9	0.0	1.2	0.1	23.6	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
424	IC	8	33.00	15.837	31.9	0.0	4.9	3.9	0.0	1.2	0.1	23.6	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.27	1.48
425	IC	8	32.75	15.859	31.9	0.0	4.9	3.9	0.0	1.2	0.1	23.6	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.48
426	IC	8	32.50	15.880	31.9	0.0	4.9	3.9	0.0	1.2	0.1	23.6	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.48
427	IC	8	32.25	15.902	31.9	0.0	4.9	3.9	0.0	1.2	0.1	23.5	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.48
428	IC	8	32.00	15.923	31.9	0.0	4.9	3.9	0.0	1.2	0.1	23.5	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.48
429	IC	8	31.75	15.945	31.9	0.0	4.9	3.9	0.0	1.2	0.1	23.5	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.48
430	IC	8	31.50	15.966	31.9	0.0	4.9	3.9	0.0	1.2	0.1	23.5	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.48
431	IC	8	31.25	15.987	31.9	0.0	4.9	3.9	0.0	1.2	0.1	23.5	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.48
432	IC	8	31.00	16.009	31.9	0.0	4.9	3.9	0.0	1.2	0.1	23.4	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.48
433	IC	8	30.75	16.030	31.9	0.0	4.9	3.9	0.0	1.2	0.1	23.4	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.48
434	IC	8	30.50	16.052	31.9	0.0	4.9	3.9	0.0	1.2	0.1	23.4	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.48
435	IC	8	30.25	16.073	31.9	0.0	4.8	3.9	0.0	1.2	0.1	23.4	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.48
436	IC	8	30.00	16.095	31.9	0.0	4.8	3.9	0.0	1.2	0.1	23.4	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.48
437	IC	8	29.75	16.116	31.9	0.0	4.8	3.9	0.0	1.2	0.1	23.3	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.49
438	IC	8	29.50	16.137	31.9	0.0	4.8	3.9	0.0	1.2	0.1	23.3	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.49
439	IC	8	29.25	16.159	31.9	0.0	4.8	3.9	0.0	1.2	0.1	23.3	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.49
440	IC	8	29.00	16.180	31.9	0.0	4.8	3.9	0.0	1.2	0.1	23.3	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.49
441	IC	8	28.75	16.202	31.9	0.0	4.8	3.9	0.0	1.2	0.1	23.3	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.49
442	IC	8	28.50	16.223	31.9	0.0	4.8	3.9	0.0	1.2	0.1	23.2	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.49
443	IC	8	28.25	16.245	32.0	0.0	4.8	3.9	0.0	1.2	0.1	23.2	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.49
444	IC	8	28.00	16.266	32.0	0.0	4.8	3.9	0.0	1.2	0.1	23.2	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.49
445	IC	8	27.75	16.287	32.0	0.0	4.8	3.9	0.0	1.2	0.1	23.2	0.9	12.80	155.8	0.008	0.008	7.3	0.068	0.26	0.00	0.00	0.00	0.26	1.49

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446 IC  8   27.50  16.309 32.0  0.0  4.8   3.9   0.0  1.2  0.1 23.2    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
447 IC  8   27.25  16.330 32.0  0.0  4.8   3.9   0.0  1.2  0.1 23.2    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
448 IC  8   27.00  16.352 32.0  0.0  4.7   3.9   0.0  1.2  0.1 23.1    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
449 IC  8   26.75  16.373 32.0  0.0  4.7   3.9   0.0  1.2  0.1 23.1    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
450 IC  8   26.50  16.394 32.0  0.0  4.7   3.9   0.0  1.2  0.1 23.1    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
451 IC  8   26.25  16.416 32.0  0.0  4.7   3.9   0.0  1.2  0.1 23.1    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
452 IC  8   26.00  16.437 32.0  0.0  4.7   3.9   0.0  1.2  0.1 23.1    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
453 IC  8   25.75  16.459 32.0  0.0  4.7   3.9   0.0  1.2  0.1 23.0    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
454 IC  8   25.50  16.480 32.0  0.0  4.7   3.9   0.0  1.2  0.1 23.0    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
455 IC  8   25.25  16.502 32.0  0.0  4.7   3.9   0.0  1.2  0.1 23.0    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
456 IC  8   25.00  16.523 32.0  0.0  4.7   3.9   0.0  1.2  0.1 23.0    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
457 IC  8   24.75  16.544 32.0  0.0  4.7   3.9   0.0  1.2  0.1 23.0    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
458 IC  8   24.50  16.566 32.0  0.0  4.7   3.9   0.0  1.2  0.1 22.9    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
459 IC  8   24.25  16.587 32.0  0.0  4.7   3.9   0.0  1.2  0.1 22.9    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
460 IC  8   24.00  16.609 32.0  0.0  4.6   3.9   0.0  1.2  0.1 22.9    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
      WASTELOAD # 461 (LA0104868) ENTERS HERE
461 IC  8   23.75  16.630 32.0  0.0  4.6   3.9   0.0  1.2  0.1 22.9    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
462 IC  8   23.50  16.652 32.0  0.0  4.6   3.9   0.0  1.2  0.1 22.9    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
EXPANDED CAPSULE SUMMARY FOR ICWW
                                                                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
463 IC  8   23.25  16.673 32.0  0.0  4.6   3.9   0.0  1.2  0.1 22.8    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
464 IC  8   23.00  16.694 32.0  0.0  4.6   3.9   0.0  1.2  0.1 22.8    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
465 IC  8   22.75  16.716 32.0  0.0  4.6   3.9   0.0  1.2  0.1 22.8    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
466 IC  8   22.50  16.737 32.0  0.0  4.6   3.9   0.0  1.2  0.1 22.8    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
      WASTELOAD # 467 (LA0089648) ENTERS HERE
467 IC  8   22.25  16.762 32.0  0.0  4.5   3.9   0.0  1.2  0.1 22.8    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
468 IC  8   22.00  16.784 32.0  0.0  4.5   4.1   0.0  1.2  0.1 22.7    0.9  12.80 155.8  0.008  0.008   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
      WASTELOAD # 469 (Company Canal North) ENTERS HERE
      DIVERSION # 469 (Company Canal South) LEAVES HERE
469 IC  8   21.75  20.429 32.0  0.0  4.3   4.9   0.0  1.2  0.1 22.7    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
470 IC  8   21.50  20.450 32.0  0.0  4.2   4.8   0.0  1.2  0.1 22.7    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
471 IC  8   21.25  20.472 32.0  0.0  4.2   4.8   0.0  1.2  0.1 22.7    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
472 IC  8   21.00  20.493 32.0  0.0  4.1   4.7   0.0  1.2  0.1 22.7    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.26  1.49
473 IC  8   20.75  20.515 32.0  0.0  4.1   4.6   0.0  1.2  0.1 22.6    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
474 IC  8   20.50  20.536 32.0  0.0  4.0   4.6   0.0  1.2  0.1 22.6    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
475 IC  8   20.25  20.558 32.0  0.0  4.0   4.5   0.0  1.2  0.1 22.6    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
476 IC  8   20.00  20.579 32.0  0.0  3.9   4.5   0.0  1.2  0.1 22.6    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
477 IC  8   19.75  20.600 32.0  0.0  3.9   4.5   0.0  1.2  0.1 22.6    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
478 IC  8   19.50  20.622 32.0  0.0  3.9   4.4   0.0  1.2  0.1 22.5    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
479 IC  8   19.25  20.643 32.0  0.0  3.8   4.4   0.0  1.2  0.1 22.5    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
480 IC  8   19.00  20.665 32.0  0.0  3.8   4.3   0.0  1.2  0.1 22.5    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
481 IC  8   18.75  20.686 32.0  0.0  3.8   4.3   0.0  1.2  0.1 22.5    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
482 IC  8   18.50  20.707 32.0  0.0  3.7   4.3   0.0  1.2  0.1 22.5    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
483 IC  8   18.25  20.729 32.0  0.0  3.7   4.2   0.0  1.2  0.1 22.4    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
484 IC  8   18.00  20.750 32.0  0.0  3.7   4.2   0.0  1.2  0.1 22.4    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
485 IC  8   17.75  20.772 32.0  0.0  3.7   4.2   0.0  1.2  0.1 22.4    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
486 IC  8   17.50  20.793 32.0  0.0  3.7   4.2   0.0  1.2  0.1 22.4    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
487 IC  8   17.25  20.815 32.0  0.0  3.7   4.1   0.0  1.2  0.1 22.4    0.9  12.80 155.8  0.010  0.010   7.3  0.068 0.26 0.00 0.00 0.00 0.25  1.49
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488	IC	8	17.00	20.836	32.0	0.0	3.6	4.1	0.0	1.2	0.1	22.3	0.9	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
489	IC	8	16.75	20.857	32.0	0.0	3.6	4.1	0.0	1.2	0.1	22.3	0.9	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
490	IC	8	16.50	20.879	32.0	0.0	3.6	4.1	0.0	1.2	0.1	22.3	0.9	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
491	IC	8	16.25	20.900	32.0	0.0	3.6	4.1	0.0	1.2	0.1	22.3	0.9	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
492	IC	8	16.00	20.922	32.0	0.0	3.6	4.1	0.0	1.2	0.1	22.3	0.9	12.80	155.8	0.010	0.010	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
WASTELOAD # 493 (St Louis Canal) ENTERS HERE																									
493	IC	8	15.75	21.396	32.0	0.0	3.6	4.1	0.0	1.2	0.1	22.2	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
494	IC	8	15.50	21.418	32.0	0.0	3.6	4.1	0.0	1.2	0.1	22.2	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
495	IC	8	15.25	21.439	32.0	0.0	3.6	4.1	0.0	1.2	0.1	22.2	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
496	IC	8	15.00	21.460	32.0	0.0	3.6	4.1	0.0	1.2	0.1	22.2	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
497	IC	8	14.75	21.482	32.0	0.0	3.6	4.1	0.0	1.2	0.1	22.2	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
498	IC	8	14.50	21.503	32.0	0.0	3.5	4.0	0.0	1.2	0.1	22.1	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
499	IC	8	14.25	21.525	32.0	0.0	3.5	4.0	0.0	1.2	0.1	22.1	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
500	IC	8	14.00	21.546	32.0	0.0	3.5	4.0	0.0	1.2	0.1	22.1	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
501	IC	8	13.75	21.567	32.0	0.0	3.5	4.0	0.0	1.2	0.1	22.1	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
502	IC	8	13.50	21.589	32.0	0.0	3.5	4.0	0.0	1.2	0.1	22.1	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
503	IC	8	13.25	21.610	32.0	0.0	3.5	4.0	0.0	1.2	0.1	22.0	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
504	IC	8	13.00	21.632	32.0	0.0	3.5	4.0	0.0	1.2	0.1	22.0	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
505	IC	8	12.75	21.653	32.0	0.0	3.5	4.0	0.0	1.2	0.1	22.0	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
506	IC	8	12.50	21.675	32.0	0.0	3.5	4.0	0.0	1.2	0.1	22.0	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
507	IC	8	12.25	21.696	32.0	0.0	3.5	4.0	0.0	1.2	0.1	22.0	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
508	IC	8	12.00	21.717	32.0	0.0	3.5	3.9	0.0	1.2	0.1	21.9	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
509	IC	8	11.75	21.739	32.0	0.0	3.5	3.9	0.0	1.2	0.1	21.9	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
510	IC	8	11.50	21.760	32.0	0.0	3.5	3.9	0.0	1.2	0.1	21.9	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
511	IC	8	11.25	21.782	32.0	0.0	3.5	3.9	0.0	1.2	0.1	21.9	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
512	IC	8	11.00	21.803	32.0	0.0	3.5	3.9	0.0	1.2	0.1	21.9	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
513	IC	8	10.75	21.825	32.0	0.0	3.5	3.9	0.0	1.2	0.1	21.8	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
514	IC	8	10.50	21.846	32.0	0.0	3.5	3.9	0.0	1.2	0.1	21.8	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
515	IC	8	10.25	21.867	32.0	0.0	3.5	3.9	0.0	1.2	0.1	21.8	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
516	IC	8	10.00	21.889	32.0	0.0	3.5	3.9	0.0	1.2	0.1	21.8	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
517	IC	8	9.75	21.910	32.0	0.0	3.5	3.9	0.0	1.2	0.1	21.8	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.49
518	IC	8	9.50	21.932	32.0	0.0	3.5	3.9	0.0	1.2	0.1	21.8	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.50
519	IC	8	9.25	21.953	32.1	0.0	3.5	3.9	0.0	1.2	0.1	21.7	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.50
520	IC	8	9.00	21.974	32.1	0.0	3.5	3.9	0.0	1.2	0.1	21.7	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.50
521	IC	8	8.75	21.996	32.1	0.0	3.5	3.9	0.0	1.2	0.1	21.7	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.50
522	IC	8	8.50	22.017	32.1	0.0	3.5	3.9	0.0	1.2	0.1	21.7	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.50
523	IC	8	8.25	22.039	32.1	0.0	3.5	3.9	0.0	1.2	0.1	21.7	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.50
524	IC	8	8.00	22.060	32.1	0.0	3.5	3.9	0.0	1.2	0.1	21.6	0.9	12.80	155.8	0.011	0.011	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.50
WASTELOAD # 525 (Bayou Bleu North) ENTERS HERE																									
525	IC	8	7.75	23.299	32.1	0.0	3.5	4.1	0.0	1.1	0.1	21.6	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
526	IC	8	7.50	23.320	32.1	0.0	3.4	4.1	0.0	1.1	0.1	21.6	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
527	IC	8	7.25	23.342	32.1	0.0	3.4	4.1	0.0	1.1	0.1	21.6	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
528	IC	8	7.00	23.363	32.1	0.0	3.4	4.1	0.0	1.1	0.1	21.6	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
529	IC	8	6.75	23.385	32.1	0.0	3.4	4.0	0.0	1.1	0.1	21.5	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
530	IC	8	6.50	23.406	32.1	0.0	3.4	4.0	0.0	1.1	0.1	21.5	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
531	IC	8	6.25	23.428	32.1	0.0	3.4	4.0	0.0	1.1	0.1	21.5	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50

EXPANDED CAPSULE SUMMARY FOR ICWW

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

532	IC	8	6.00	23.449	32.1	0.0	3.4	4.0	0.0	1.1	0.1	21.5	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
533	IC	8	5.75	23.470	32.1	0.0	3.4	4.0	0.0	1.1	0.1	21.5	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
534	IC	8	5.50	23.492	32.1	0.0	3.4	4.0	0.0	1.1	0.1	21.4	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
535	IC	8	5.25	23.513	32.1	0.0	3.4	4.0	0.0	1.1	0.1	21.4	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
536	IC	8	5.00	23.535	32.1	0.0	3.4	4.0	0.0	1.1	0.1	21.4	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
537	IC	8	4.75	23.556	32.1	0.0	3.3	4.0	0.0	1.1	0.1	21.4	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
538	IC	8	4.50	23.578	32.1	0.0	3.3	4.0	0.0	1.1	0.1	21.4	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
539	IC	8	4.25	23.599	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.3	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
540	IC	8	4.00	23.620	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.3	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
DIVERSION # 541 (Bayou Bleu South) LEAVES HERE																									
541	IC	8	3.75	23.245	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.3	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
542	IC	8	3.50	23.267	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.3	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
543	IC	8	3.25	23.288	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.3	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
544	IC	8	3.00	23.310	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.2	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
545	IC	8	2.75	23.331	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.2	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
546	IC	8	2.50	23.353	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.2	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
547	IC	8	2.25	23.374	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.2	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
548	IC	8	2.00	23.395	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.2	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
WASTELOAD # 549 (PS ICWW#2) ENTERS HERE																									
549	IC	8	1.75	23.417	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.1	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
550	IC	8	1.50	23.438	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.1	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
551	IC	8	1.25	23.460	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.1	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
552	IC	8	1.00	23.481	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.1	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
553	IC	8	0.75	23.502	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.1	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
554	IC	8	0.50	23.524	32.1	0.0	3.3	3.9	0.0	1.1	0.1	21.0	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
555	IC	8	0.25	23.545	32.1	0.0	3.4	3.9	0.0	1.0	0.1	21.0	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.24	1.50
556	IC	8	0.00	23.567	32.1	0.0	3.8	3.8	0.0	0.7	0.1	21.0	0.9	12.80	155.8	0.012	0.012	7.3	0.068	0.26	0.00	0.00	0.00	0.25	1.50

EXPANDED CAPSULE SUMMARY FOR Bayou Black

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	WIDTH	VELO	VELO	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
225	BB	5	44.75	0.011	32.1	0.0	10.7	0.4	0.0	0.2	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
226	BB	5	44.50	0.015	32.1	0.0	10.8	0.4	0.0	0.2	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
227	BB	5	44.25	0.019	32.1	0.0	10.8	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
228	BB	5	44.00	0.023	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
229	BB	5	43.75	0.027	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
230	BB	5	43.50	0.031	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
231	BB	5	43.25	0.035	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
232	BB	5	43.00	0.039	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
233	BB	5	42.75	0.043	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
234	BB	5	42.50	0.047	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
235	BB	5	42.25	0.051	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
236	BB	5	42.00	0.055	32.1	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.50
237	BB	5	41.75	0.059	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
238	BB	5	41.50	0.063	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
239	BB	5	41.25	0.067	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
240	BB	5	41.00	0.071	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
241	BB	5	40.75	0.075	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
242	BB	5	40.50	0.079	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
243	BB	5	40.25	0.083	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49

244	BB	5	40.00	0.087	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
245	BB	5	39.75	0.091	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
246	BB	5	39.50	0.095	32.0	0.0	10.9	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
247	BB	5	39.25	0.099	32.0	0.0	10.8	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
248	BB	5	39.00	0.103	32.0	0.0	10.7	0.4	0.0	0.1	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
249	BB	5	38.75	0.107	32.0	0.0	10.6	0.5	0.0	0.2	0.0	25.0	0.2	4.57	196.7	0.000	0.000	7.3	0.191	0.26	0.00	0.00	0.00	0.45	1.49
250	BB	6	38.50	0.110	32.0	0.0	10.0	0.9	0.0	0.2	0.0	25.7	0.0	1.16	31.2	0.003	0.003	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
251	BB	6	38.25	0.113	32.0	0.0	8.4	2.2	0.0	0.2	0.0	26.4	0.0	1.16	31.2	0.003	0.003	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
252	BB	6	38.00	0.116	32.0	0.0	7.4	3.2	0.0	0.3	0.0	27.1	0.0	1.16	31.2	0.003	0.003	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
253	BB	6	37.75	0.118	32.0	0.0	6.8	4.0	0.0	0.4	0.0	27.9	0.0	1.16	31.2	0.003	0.003	7.3	0.751	0.26	0.00	0.00	0.00	0.44	1.49
254	BB	6	37.50	0.121	32.0	0.0	6.3	4.6	0.0	0.4	0.0	28.6	0.0	1.16	31.2	0.003	0.003	7.3	0.751	0.26	0.00	0.00	0.00	0.43	1.49
255	BB	6	37.25	0.124	32.0	0.0	6.0	5.0	0.0	0.5	0.0	29.3	0.0	1.16	31.2	0.003	0.003	7.3	0.751	0.26	0.00	0.00	0.00	0.43	1.49
256	BB	6	37.00	0.127	32.0	0.0	5.8	5.4	0.0	0.6	0.0	30.0	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.43	1.49
257	BB	6	36.75	0.130	32.0	0.0	5.6	5.7	0.0	0.6	0.0	30.7	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
258	BB	6	36.50	0.133	32.0	0.0	5.5	5.9	0.0	0.7	0.0	31.4	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
259	BB	6	36.25	0.136	32.0	0.0	5.4	6.1	0.0	0.7	0.0	32.1	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
WASTELOAD # 260 (LAG531469) ENTERS HERE																									
260	BB	6	36.00	0.139	32.0	0.0	5.4	6.4	0.0	0.7	0.0	32.9	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
261	BB	6	35.75	0.141	32.0	0.0	5.3	6.5	0.0	0.8	0.0	33.6	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
262	BB	6	35.50	0.144	32.0	0.0	5.3	6.5	0.0	0.8	0.0	34.3	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
263	BB	6	35.25	0.147	32.0	0.0	5.3	6.6	0.0	0.9	0.0	35.0	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
264	BB	6	35.00	0.150	32.0	0.0	5.3	6.7	0.0	0.9	0.1	35.7	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
265	BB	6	34.75	0.153	32.0	0.0	5.3	6.7	0.0	0.9	0.1	36.4	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
266	BB	6	34.50	0.156	32.0	0.0	5.3	6.8	0.0	0.9	0.1	37.1	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
267	BB	6	34.25	0.159	32.0	0.0	5.3	6.8	0.0	1.0	0.1	37.9	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
WASTELOAD # 268 (LAG540726) ENTERS HERE																									
268	BB	6	34.00	0.161	32.0	0.0	5.4	6.8	0.0	1.0	0.1	38.6	0.0	1.16	31.2	0.004	0.004	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
269	BB	6	33.75	0.164	32.0	0.0	5.4	6.8	0.0	1.0	0.1	39.3	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
270	BB	6	33.50	0.167	32.0	0.0	5.4	6.9	0.0	1.1	0.1	40.0	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
271	BB	6	33.25	0.170	32.0	0.0	5.4	6.9	0.0	1.1	0.1	40.7	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
272	BB	6	33.00	0.173	32.0	0.0	5.5	6.9	0.0	1.1	0.1	41.4	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
273	BB	6	32.75	0.176	32.0	0.0	5.5	6.9	0.0	1.1	0.1	42.1	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
274	BB	6	32.50	0.179	32.0	0.0	5.5	6.9	0.0	1.1	0.1	42.9	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
275	BB	6	32.25	0.181	32.0	0.0	5.6	6.9	0.0	1.2	0.1	43.6	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
276	BB	6	32.00	0.184	32.0	0.0	5.6	6.9	0.0	1.2	0.1	44.3	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
277	BB	6	31.75	0.187	32.0	0.0	5.6	6.9	0.0	1.2	0.1	45.0	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
WASTELOAD # 278 (PS Black Bayou#1) ENTERS HERE																									
278	BB	6	31.50	0.192	32.0	0.0	5.6	7.3	0.0	1.2	0.1	45.7	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
279	BB	6	31.25	0.194	32.0	0.0	5.6	7.2	0.0	1.2	0.1	46.4	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
280	BB	6	31.00	0.197	32.0	0.0	5.7	7.2	0.0	1.2	0.1	47.1	0.0	1.16	31.2	0.005	0.005	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
281	BB	6	30.75	0.200	32.0	0.0	5.7	7.2	0.0	1.3	0.1	47.9	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.26	0.00	0.00	0.00	0.42	1.49
282	BB	6	30.50	0.203	32.0	0.0	5.7	7.1	0.0	1.3	0.1	48.6	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.26	0.00	0.00	0.00	0.43	1.49
283	BB	6	30.25	0.206	32.0	0.0	5.8	7.1	0.0	1.3	0.1	49.3	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.26	0.00	0.00	0.00	0.43	1.49
284	BB	6	30.00	0.209	32.0	0.0	5.8	7.1	0.0	1.3	0.1	50.0	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.26	0.00	0.00	0.00	0.43	1.49
285	BB	7	29.75	0.210	32.0	0.0	5.4	6.6	0.0	1.3	0.1	49.8	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
286	BB	7	29.50	0.212	32.0	0.0	5.2	6.1	0.0	1.3	0.1	49.6	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
287	BB	7	29.25	0.213	32.0	0.0	5.0	5.8	0.0	1.3	0.1	49.3	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
288	BB	7	29.00	0.214	32.0	0.0	5.0	5.4	0.0	1.3	0.1	49.1	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
289	BB	7	28.75	0.216	32.0	0.0	4.9	5.2	0.0	1.3	0.1	48.9	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
290	BB	7	28.50	0.217	32.0	0.0	4.9	4.9	0.0	1.2	0.1	48.7	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77

291	BB	7	28.25	0.219	32.0	0.0	5.0	4.7	0.0	1.2	0.1	48.5	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
WASTELOAD # 292 (PS Black Bayou#2) ENTERS HERE																									
292	BB	7	28.00	0.222	32.0	0.0	4.9	4.9	0.0	1.2	0.1	48.3	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
293	BB	7	27.75	0.224	32.0	0.0	4.9	4.7	0.0	1.2	0.1	48.0	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
294	BB	7	27.50	0.225	32.0	0.0	5.0	4.5	0.0	1.2	0.1	47.8	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77

EXPANDED CAPSULE SUMMARY FOR Bayou Black

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
295	BB	7	27.25	0.226	32.0	0.0	5.0	4.4	0.0	1.2	0.1	47.6	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
296	BB	7	27.00	0.228	32.0	0.0	5.0	4.2	0.0	1.2	0.1	47.4	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
297	BB	7	26.75	0.229	32.0	0.0	5.1	4.1	0.0	1.2	0.1	47.2	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
298	BB	7	26.50	0.231	32.0	0.0	5.1	4.0	0.0	1.2	0.1	47.0	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.77
299	BB	7	26.25	0.232	32.0	0.0	5.1	3.9	0.0	1.2	0.1	46.8	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
300	BB	7	26.00	0.234	32.0	0.0	5.1	3.9	0.0	1.2	0.1	46.5	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
301	BB	7	25.75	0.235	32.0	0.0	5.2	3.8	0.0	1.2	0.1	46.3	0.0	1.16	31.2	0.006	0.006	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
302	BB	7	25.50	0.236	32.0	0.0	5.2	3.7	0.0	1.2	0.1	46.1	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
303	BB	7	25.25	0.238	32.0	0.0	5.2	3.7	0.0	1.2	0.1	45.9	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.77
304	BB	7	25.00	0.239	32.0	0.0	5.2	3.6	0.0	1.2	0.1	45.7	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
305	BB	7	24.75	0.241	32.0	0.0	5.2	3.6	0.0	1.2	0.1	45.5	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
306	BB	7	24.50	0.242	32.0	0.0	5.2	3.6	0.0	1.2	0.1	45.2	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
307	BB	7	24.25	0.244	32.0	0.0	5.2	3.5	0.0	1.1	0.1	45.0	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
308	BB	7	24.00	0.245	32.0	0.0	5.3	3.5	0.0	1.1	0.1	44.8	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
309	BB	7	23.75	0.246	32.0	0.0	5.3	3.5	0.0	1.1	0.1	44.6	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
310	BB	7	23.50	0.248	32.0	0.0	5.3	3.5	0.0	1.1	0.1	44.4	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
311	BB	7	23.25	0.249	32.0	0.0	5.3	3.4	0.0	1.1	0.1	44.2	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
WASTELOAD # 312 (LAG541223) ENTERS HERE																									
312	BB	7	23.00	0.251	32.0	0.0	5.2	3.6	0.0	1.1	0.1	43.9	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
313	BB	7	22.75	0.253	32.0	0.0	5.2	3.6	0.0	1.1	0.1	43.7	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
314	BB	7	22.50	0.254	32.0	0.0	5.2	3.5	0.0	1.1	0.1	43.5	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
315	BB	7	22.25	0.256	32.0	0.0	5.2	3.5	0.0	1.1	0.1	43.3	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
316	BB	7	22.00	0.257	32.0	0.0	5.2	3.5	0.0	1.1	0.1	43.1	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
317	BB	7	21.75	0.259	32.0	0.0	5.2	3.5	0.0	1.1	0.1	42.8	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
318	BB	7	21.50	0.260	32.0	0.0	5.2	3.4	0.0	1.1	0.1	42.6	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
319	BB	7	21.25	0.261	32.0	0.0	5.2	3.4	0.0	1.1	0.1	42.4	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
320	BB	7	21.00	0.263	32.0	0.0	5.2	3.4	0.0	1.1	0.1	42.2	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.42	2.76
321	BB	7	20.75	0.264	32.0	0.0	5.2	3.4	0.0	1.1	0.1	42.0	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
322	BB	7	20.50	0.266	32.0	0.0	5.2	3.4	0.0	1.1	0.1	41.8	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
323	BB	7	20.25	0.267	32.0	0.0	5.2	3.4	0.0	1.1	0.1	41.5	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
324	BB	7	20.00	0.269	32.0	0.0	5.2	3.4	0.0	1.1	0.1	41.3	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
325	BB	7	19.75	0.270	32.0	0.0	5.1	3.4	0.0	1.1	0.1	41.1	0.0	1.16	31.2	0.007	0.007	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
326	BB	7	19.50	0.272	32.0	0.0	5.1	3.4	0.0	1.1	0.1	40.9	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
327	BB	7	19.25	0.273	32.0	0.0	5.1	3.4	0.0	1.1	0.1	40.7	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
328	BB	7	19.00	0.274	32.0	0.0	5.1	3.3	0.0	1.1	0.1	40.5	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
329	BB	7	18.75	0.276	32.0	0.0	5.1	3.3	0.0	1.1	0.1	40.2	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
330	BB	7	18.50	0.277	32.0	0.0	5.1	3.3	0.0	1.1	0.1	40.0	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
WASTELOAD # 331 (PS Black Bayou#3) ENTERS HERE																									
331	BB	7	18.25	0.279	32.0	0.0	5.1	3.4	0.0	1.1	0.1	39.8	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
332	BB	7	18.00	0.280	32.0	0.0	5.1	3.4	0.0	1.1	0.1	39.6	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
333	BB	7	17.75	0.282	32.0	0.0	5.1	3.4	0.0	1.1	0.1	39.4	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76

334	BB	7	17.50	0.283	32.0	0.0	5.0	3.4	0.0	1.0	0.1	39.2	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
335	BB	7	17.25	0.285	32.0	0.0	5.0	3.4	0.0	1.0	0.1	39.0	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
336	BB	7	17.00	0.286	32.0	0.0	5.0	3.4	0.0	1.0	0.1	38.7	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
337	BB	7	16.75	0.287	32.0	0.0	5.0	3.4	0.0	1.0	0.1	38.5	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
338	BB	7	16.50	0.289	32.0	0.0	5.0	3.3	0.0	1.0	0.1	38.3	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
WASTELOAD # 339 (LAG541317) ENTERS HERE																									
339	BB	7	16.25	0.291	32.0	0.0	5.0	3.4	0.0	1.0	0.1	38.1	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
340	BB	7	16.00	0.292	32.0	0.0	5.0	3.4	0.0	1.0	0.1	37.9	0.0	1.16	31.2	0.008	0.008	7.3	0.751	0.29	0.00	0.00	0.00	0.41	2.76
341	BB	7	15.75	0.294	32.0	0.0	5.0	3.4	0.0	1.0	0.1	37.7	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
342	BB	7	15.50	0.295	32.0	0.0	4.9	3.4	0.0	1.0	0.1	37.4	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
343	BB	7	15.25	0.296	32.0	0.0	4.9	3.4	0.0	1.0	0.1	37.2	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
344	BB	7	15.00	0.298	32.0	0.0	4.9	3.4	0.0	1.0	0.1	37.0	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
345	BB	7	14.75	0.299	31.9	0.0	4.9	3.4	0.0	1.0	0.1	36.8	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
346	BB	7	14.50	0.301	31.9	0.0	4.9	3.4	0.0	1.0	0.1	36.6	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
347	BB	7	14.25	0.302	31.9	0.0	4.9	3.4	0.0	1.0	0.1	36.3	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
348	BB	7	14.00	0.304	31.9	0.0	4.9	3.4	0.0	1.0	0.1	36.1	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
349	BB	7	13.75	0.305	31.9	0.0	4.9	3.4	0.0	1.0	0.1	35.9	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
350	BB	7	13.50	0.307	31.9	0.0	4.9	3.3	0.0	1.0	0.1	35.7	0.0	1.16	31.2	0.008	0.008	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
351	BB	7	13.25	0.308	31.9	0.0	4.8	3.3	0.0	1.0	0.1	35.5	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.76
WASTELOAD # 352 (LA0111236) ENTERS HERE																									
352	BB	7	13.00	0.324	31.9	0.0	4.3	5.5	0.0	1.0	0.8	35.3	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.76
353	BB	7	12.75	0.325	31.9	0.0	4.0	5.3	0.0	1.0	0.7	35.0	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.76
354	BB	7	12.50	0.326	31.9	0.0	3.7	5.1	0.0	1.0	0.7	34.8	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.38	2.76
355	BB	7	12.25	0.328	31.9	0.0	3.6	5.0	0.0	1.0	0.6	34.6	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.38	2.76
356	BB	7	12.00	0.329	31.9	0.0	3.5	4.8	0.0	1.0	0.5	34.4	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.38	2.76
357	BB	7	11.75	0.331	31.9	0.0	3.5	4.7	0.0	1.0	0.5	34.2	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.37	2.76
358	BB	7	11.50	0.332	31.9	0.0	3.5	4.6	0.0	1.0	0.4	34.0	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.37	2.76
359	BB	7	11.25	0.334	31.9	0.0	3.5	4.4	0.0	1.0	0.4	33.8	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.38	2.76
360	BB	7	11.00	0.335	31.9	0.0	3.5	4.3	0.0	1.0	0.4	33.5	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.38	2.76
361	BB	7	10.75	0.336	31.9	0.0	3.6	4.3	0.0	1.0	0.3	33.3	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.38	2.76
362	BB	7	10.50	0.338	31.9	0.0	3.6	4.2	0.0	1.0	0.3	33.1	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.38	2.76
363	BB	7	10.25	0.339	31.9	0.0	3.7	4.1	0.0	1.0	0.3	32.9	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.38	2.76
364	BB	7	10.00	0.341	31.9	0.0	3.7	4.0	0.0	1.0	0.3	32.7	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.38	2.76

EXPANDED CAPSULE SUMMARY FOR Bayou Black

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
365	BB	7	9.75	0.342	31.9	0.0	3.8	4.0	0.0	1.0	0.2	32.5	0.0	1.16	31.2	0.009	0.009	7.3	0.750	0.29	0.00	0.00	0.00	0.38	2.76
366	BB	7	9.50	0.344	31.9	0.0	3.8	3.9	0.0	1.0	0.2	32.2	0.0	1.16	31.2	0.010	0.010	7.3	0.750	0.29	0.00	0.00	0.00	0.38	2.76
367	BB	7	9.25	0.345	31.9	0.0	3.9	3.9	0.0	1.0	0.2	32.0	0.0	1.16	31.2	0.010	0.010	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.76
368	BB	7	9.00	0.346	31.9	0.0	3.9	3.8	0.0	1.0	0.2	31.8	0.0	1.16	31.2	0.010	0.010	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.76
WASTELOAD # 369 (PS Hanson Canal) ENTERS HERE																									
369	BB	7	8.75	0.350	31.9	0.0	4.0	3.9	0.0	1.0	0.2	31.6	0.0	1.16	31.2	0.010	0.010	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.76
370	BB	7	8.50	0.351	31.9	0.0	4.0	3.8	0.0	1.0	0.2	31.4	0.0	1.16	31.2	0.010	0.010	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.76
371	BB	7	8.25	0.352	31.9	0.0	4.1	3.8	0.0	1.0	0.2	31.1	0.0	1.16	31.2	0.010	0.010	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.76
WASTELOAD # 372 (LA0074331) ENTERS HERE																									
372	BB	7	8.00	0.354	31.9	0.0	4.1	3.7	0.0	1.0	0.1	30.9	0.0	1.16	31.2	0.010	0.010	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.76
WASTELOAD # 373 (Minors Canal) ENTERS HERE																									
373	BB	7	7.75	0.882	31.9	0.0	7.5	5.7	0.0	1.2	0.1	30.7	0.0	1.16	31.2	0.024	0.024	7.3	0.750	0.29	0.00	0.00	0.00	0.44	2.75
374	BB	7	7.50	0.883	31.9	0.0	7.2	5.6	0.0	1.2	0.1	30.5	0.0	1.16	31.2	0.024	0.024	7.3	0.750	0.29	0.00	0.00	0.00	0.44	2.75

375	BB	7	7.25	0.885	31.9	0.0	6.9	5.6	0.0	1.2	0.1	30.3	0.0	1.16	31.2	0.024	0.024	7.3	0.750	0.29	0.00	0.00	0.00	0.44	2.75
376	BB	7	7.00	0.886	31.9	0.0	6.6	5.5	0.0	1.2	0.1	30.1	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
377	BB	7	6.75	0.888	31.9	0.0	6.3	5.4	0.0	1.2	0.1	29.9	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
378	BB	7	6.50	0.889	31.9	0.0	6.1	5.3	0.0	1.2	0.1	29.6	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
379	BB	7	6.25	0.890	31.9	0.0	5.9	5.3	0.0	1.2	0.1	29.4	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
380	BB	7	6.00	0.892	31.9	0.0	5.7	5.2	0.0	1.2	0.1	29.2	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
381	BB	7	5.75	0.893	31.9	0.0	5.6	5.1	0.0	1.2	0.1	29.0	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
382	BB	7	5.50	0.895	31.9	0.0	5.4	5.1	0.0	1.2	0.1	28.8	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
383	BB	7	5.25	0.896	31.9	0.0	5.3	5.0	0.0	1.2	0.1	28.5	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.75
384	BB	7	5.00	0.898	31.9	0.0	5.1	4.9	0.0	1.2	0.1	28.3	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.75
385	BB	7	4.75	0.899	31.9	0.0	5.0	4.9	0.0	1.2	0.1	28.1	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.75
386	BB	7	4.50	0.901	31.9	0.0	4.9	4.8	0.0	1.2	0.1	27.9	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.75
387	BB	7	4.25	0.902	31.9	0.0	4.8	4.8	0.0	1.2	0.1	27.7	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.41	2.75
388	BB	7	4.00	0.903	31.9	0.0	4.7	4.7	0.0	1.2	0.1	27.5	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
389	BB	7	3.75	0.905	31.9	0.0	4.6	4.7	0.0	1.2	0.1	27.2	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
390	BB	7	3.50	0.906	31.9	0.0	4.6	4.6	0.0	1.2	0.1	27.0	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
391	BB	7	3.25	0.908	31.9	0.0	4.5	4.6	0.0	1.2	0.1	26.8	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
392	BB	7	3.00	0.909	31.9	0.0	4.5	4.5	0.0	1.2	0.1	26.6	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
393	BB	7	2.75	0.911	31.9	0.0	4.4	4.5	0.0	1.2	0.1	26.4	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
394	BB	7	2.50	0.912	31.9	0.0	4.3	4.5	0.0	1.2	0.1	26.2	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.40	2.75
395	BB	7	2.25	0.913	31.9	0.0	4.3	4.4	0.0	1.2	0.1	25.9	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.75
396	BB	7	2.00	0.915	31.9	0.0	4.3	4.4	0.0	1.2	0.1	25.7	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.75
397	BB	7	1.75	0.916	31.9	0.0	4.2	4.3	0.0	1.2	0.1	25.5	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.75
398	BB	7	1.50	0.918	31.9	0.0	4.2	4.3	0.0	1.2	0.1	25.3	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.75
399	BB	7	1.25	0.919	31.9	0.0	4.2	4.3	0.0	1.2	0.1	25.1	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.75
400	BB	7	1.00	0.921	31.9	0.0	4.1	4.2	0.0	1.2	0.1	24.9	0.0	1.16	31.2	0.025	0.025	7.3	0.750	0.29	0.00	0.00	0.00	0.39	2.75

WASTELOAD # 401 (Little Bayou Black) ENTERS HERE

401	BB	7	0.75	2.224	31.9	0.0	3.0	7.2	0.0	1.4	0.1	24.6	0.0	1.16	31.2	0.062	0.062	7.3	0.750	0.29	0.00	0.00	0.00	0.36	2.75

WASTELOAD # 402 (PS Lil Bayou Black) ENTERS HERE

402	BB	7	0.50	2.226	31.9	0.0	3.0	7.2	0.0	1.4	0.1	24.4	0.0	1.16	31.2	0.062	0.062	7.3	0.750	0.29	0.00	0.00	0.00	0.36	2.75
403	BB	7	0.25	2.228	31.9	0.0	3.0	7.1	0.0	1.4	0.1	24.2	0.0	1.16	31.2	0.062	0.062	7.3	0.750	0.29	0.00	0.00	0.00	0.36	2.75
404	BB	7	0.00	2.229	31.9	0.0	3.0	7.1	0.0	1.4	0.1	24.0	0.0	1.16	31.2	0.062	0.062	7.3	0.750	0.29	0.00	0.00	0.00	0.36	2.75

SPECIAL REPORT: ICWW

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 µg/L	TOTN **	PHOS #/100mL	CHL A *	MACRO	COLI	NCM
1	93.750	31.22	0.0	0.0	0.0	6.59	2.41	0.00	2.41	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
2	93.500	31.24	0.0	0.0	0.0	6.59	2.38	0.00	2.38	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
3	93.250	31.26	0.0	0.0	0.0	6.60	2.35	0.00	2.35	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
4	93.000	31.28	0.0	0.0	0.0	6.62	2.34	0.00	2.34	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
5	92.750	31.31	0.0	0.0	0.0	6.63	2.33	0.00	2.33	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
6	92.500	31.33	0.0	0.0	0.0	6.64	2.32	0.00	2.32	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
7	92.250	31.35	0.0	0.0	0.0	6.65	2.31	0.00	2.31	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
8	92.000	31.37	0.0	0.0	0.0	6.66	2.31	0.00	2.31	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
9	91.750	31.39	0.0	0.0	0.0	6.67	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
10	91.500	31.41	0.0	0.0	0.0	6.68	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
11	91.250	31.43	0.0	0.0	0.0	6.68	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
12	91.000	31.45	0.0	0.0	0.0	6.69	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
13	90.750	31.47	0.0	0.0	0.0	6.69	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
14	90.500	31.49	0.0	0.0	0.0	6.70	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00

15	90.250	31.52	0.0	0.0	0.0	6.70	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
16	90.000	31.54	0.0	0.0	0.0	6.70	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
17	89.750	31.56	0.0	0.0	0.0	6.71	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
18	89.500	31.58	0.0	0.0	0.0	6.71	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
19	89.250	31.60	0.0	0.0	0.0	6.71	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
20	89.000	31.62	0.0	0.0	0.0	6.71	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
21	88.750	31.64	0.0	0.0	0.0	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
22	88.500	31.66	0.0	0.0	0.0	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
23	88.250	31.68	0.0	0.0	0.0	6.70	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
24	88.000	31.71	0.0	0.0	0.0	6.70	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
25	87.750	31.73	0.0	0.0	0.0	6.69	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
26	87.500	31.75	0.0	0.0	0.0	6.67	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
27	87.250	31.77	0.0	0.0	0.0	6.65	2.27	0.00	2.27	0.00	1.32	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
28	87.000	31.79	0.0	0.0	0.0	6.62	2.27	0.00	2.27	0.00	1.32	0.12	0.00	1.44	0.00	20.0	0.0	0.	0.00
29	86.750	31.81	0.0	0.0	0.0	6.58	2.27	0.00	2.27	0.00	1.32	0.12	0.00	1.44	0.00	20.0	0.0	0.	0.00
30	86.500	31.83	0.0	0.0	0.0	6.52	2.28	0.00	2.28	0.00	1.33	0.12	0.00	1.45	0.00	20.0	0.0	0.	0.00
31	86.250	31.85	0.0	0.0	0.0	6.45	2.29	0.00	2.29	0.00	1.34	0.12	0.00	1.46	0.00	20.0	0.0	0.	0.00
32	86.000	31.87	0.0	0.0	0.0	6.34	2.31	0.00	2.31	0.00	1.35	0.12	0.00	1.47	0.00	20.0	0.0	0.	0.00
33	85.750	31.89	0.0	0.0	0.0	6.20	2.35	0.00	2.35	0.00	1.36	0.12	0.00	1.48	0.00	20.0	0.0	0.	0.00
34	85.500	31.92	0.0	0.0	0.0	6.01	2.42	0.00	2.42	0.00	1.38	0.12	0.00	1.50	0.00	20.0	0.0	0.	0.00
35	85.250	31.94	0.0	0.0	0.0	5.77	2.53	0.00	2.53	0.00	1.40	0.12	0.00	1.52	0.00	20.0	0.0	0.	0.00
36	85.000	31.96	0.0	0.0	0.0	5.47	2.73	0.00	2.73	0.00	1.43	0.12	0.00	1.55	0.00	20.0	0.0	0.	0.00
37	84.750	31.98	0.0	0.0	0.0	5.11	3.08	0.00	3.08	0.00	1.47	0.12	0.00	1.59	0.00	20.0	0.0	0.	0.00
38	84.500	32.00	0.0	0.0	0.0	4.72	3.67	0.00	3.67	0.00	1.52	0.12	0.00	1.63	0.00	20.0	0.0	0.	0.00
39	84.250	32.00	0.0	0.0	0.0	4.38	4.73	0.00	4.73	0.00	1.59	0.10	0.00	1.69	0.00	20.0	0.0	0.	0.00
40	84.000	32.00	0.0	0.0	0.0	4.31	4.63	0.00	4.63	0.00	1.58	0.11	0.00	1.69	0.00	20.0	0.0	0.	0.00
41	83.750	32.01	0.0	0.0	0.0	4.26	4.54	0.00	4.54	0.00	1.58	0.11	0.00	1.69	0.00	20.0	0.0	0.	0.00
42	83.500	32.01	0.0	0.0	0.0	4.20	4.45	0.00	4.45	0.00	1.57	0.11	0.00	1.68	0.00	20.0	0.0	0.	0.00
43	83.250	32.01	0.0	0.0	0.0	4.15	4.36	0.00	4.36	0.00	1.57	0.11	0.00	1.68	0.00	20.0	0.0	0.	0.00
44	83.000	32.01	0.0	0.0	0.0	4.11	4.28	0.00	4.28	0.00	1.57	0.11	0.00	1.68	0.00	20.0	0.0	0.	0.00
45	82.750	32.01	0.0	0.0	0.0	4.06	4.20	0.00	4.20	0.00	1.56	0.12	0.00	1.68	0.00	20.0	0.0	0.	0.00
46	82.500	32.02	0.0	0.0	0.0	4.03	4.13	0.00	4.13	0.00	1.56	0.12	0.00	1.68	0.00	20.0	0.0	0.	0.00
47	82.250	32.02	0.0	0.0	0.0	3.99	4.05	0.00	4.05	0.00	1.55	0.12	0.00	1.67	0.00	20.0	0.0	0.	0.00
48	82.000	32.02	0.0	0.0	0.0	3.96	3.98	0.00	3.98	0.00	1.55	0.12	0.00	1.67	0.00	20.0	0.0	0.	0.00
49	81.750	32.02	0.0	0.0	0.0	3.93	3.92	0.00	3.92	0.00	1.55	0.12	0.00	1.67	0.00	20.0	0.0	0.	0.00
50	81.500	32.02	0.0	0.0	0.0	3.90	3.85	0.00	3.85	0.00	1.54	0.12	0.00	1.67	0.00	20.0	0.0	0.	0.00
51	81.250	32.03	0.0	0.0	0.0	3.88	3.79	0.00	3.79	0.00	1.54	0.12	0.00	1.66	0.00	20.0	0.0	0.	0.00
52	81.000	32.03	0.0	0.0	0.0	3.85	3.73	0.00	3.73	0.00	1.54	0.12	0.00	1.66	0.00	20.0	0.0	0.	0.00
53	80.750	32.03	0.0	0.0	0.0	3.84	3.68	0.00	3.68	0.00	1.53	0.13	0.00	1.66	0.00	20.0	0.0	0.	0.00
54	80.500	32.03	0.0	0.0	0.0	3.82	3.62	0.00	3.62	0.00	1.53	0.13	0.00	1.66	0.00	20.0	0.0	0.	0.00
55	80.250	32.03	0.0	0.0	0.0	3.80	3.57	0.00	3.57	0.00	1.52	0.13	0.00	1.65	0.00	20.0	0.0	0.	0.00
56	80.000	32.03	0.0	0.0	0.0	3.79	3.52	0.00	3.52	0.00	1.52	0.13	0.00	1.65	0.00	20.0	0.0	0.	0.00
57	79.750	32.04	0.0	0.0	0.0	3.78	3.46	0.00	3.46	0.00	1.52	0.13	0.00	1.65	0.00	20.0	0.0	0.	0.00
58	79.500	32.04	0.0	0.0	0.0	3.77	3.32	0.00	3.32	0.00	1.50	0.13	0.00	1.64	0.00	20.0	0.0	0.	0.00
59	79.250	32.04	0.0	0.0	0.0	3.78	3.19	0.00	3.19	0.00	1.49	0.13	0.00	1.62	0.00	20.0	0.0	0.	0.00
60	79.000	32.04	0.0	0.0	0.0	3.80	3.08	0.00	3.08	0.00	1.48	0.14	0.00	1.61	0.00	20.0	0.0	0.	0.00
61	78.750	32.04	0.0	0.0	0.0	3.84	2.98	0.00	2.98	0.00	1.46	0.14	0.00	1.60	0.00	20.0	0.0	0.	0.00
62	78.500	32.05	0.0	0.0	0.0	3.88	2.90	0.00	2.90	0.00	1.45	0.14	0.00	1.59	0.00	20.0	0.0	0.	0.00
63	78.250	32.05	0.0	0.0	0.0	3.93	2.83	0.00	2.83	0.00	1.44	0.14	0.00	1.58	0.00	20.0	0.0	0.	0.00
64	78.000	32.05	0.0	0.0	0.0	3.99	2.76	0.00	2.76	0.00	1.43	0.14	0.00	1.57	0.00	20.0	0.0	0.	0.00

65	77.750	32.05	0.0	0.0	0.0	4.05	2.71	0.00	2.71	0.00	1.42	0.14	0.00	1.55	0.00	20.0	0.0	0.	0.00
66	77.500	32.05	0.0	0.0	0.0	4.12	2.66	0.00	2.66	0.00	1.40	0.14	0.00	1.54	0.00	20.0	0.0	0.	0.00
67	77.250	32.06	0.0	0.0	0.0	4.19	2.62	0.00	2.62	0.00	1.39	0.14	0.00	1.53	0.00	20.0	0.0	0.	0.00
68	77.000	32.06	0.0	0.0	0.0	4.27	2.59	0.00	2.59	0.00	1.38	0.14	0.00	1.52	0.00	20.0	0.0	0.	0.00
69	76.750	32.06	0.0	0.0	0.0	4.34	2.56	0.00	2.56	0.00	1.37	0.14	0.00	1.51	0.00	20.0	0.0	0.	0.00
70	76.500	32.06	0.0	0.0	0.0	4.42	2.53	0.00	2.53	0.00	1.36	0.14	0.00	1.50	0.00	20.0	0.0	0.	0.00
71	76.250	32.06	0.0	0.0	0.0	4.49	2.51	0.00	2.51	0.00	1.35	0.14	0.00	1.48	0.00	20.0	0.0	0.	0.00
72	76.000	32.07	0.0	0.0	0.0	4.57	2.49	0.00	2.49	0.00	1.34	0.13	0.00	1.47	0.00	20.0	0.0	0.	0.00
73	75.750	32.07	0.0	0.0	0.0	4.65	2.47	0.00	2.47	0.00	1.33	0.13	0.00	1.46	0.00	20.0	0.0	0.	0.00
74	75.500	32.07	0.0	0.0	0.0	4.72	2.45	0.00	2.45	0.00	1.32	0.13	0.00	1.45	0.00	20.0	0.0	0.	0.00
75	75.250	32.07	0.0	0.0	0.0	4.80	2.44	0.00	2.44	0.00	1.31	0.13	0.00	1.44	0.00	20.0	0.0	0.	0.00
76	75.000	32.07	0.0	0.0	0.0	4.87	2.43	0.00	2.43	0.00	1.30	0.13	0.00	1.43	0.00	20.0	0.0	0.	0.00
77	74.750	32.08	0.0	0.0	0.0	4.94	2.42	0.00	2.42	0.00	1.29	0.13	0.00	1.42	0.00	20.0	0.0	0.	0.00
78	74.500	32.08	0.0	0.0	0.0	5.02	2.41	0.00	2.41	0.00	1.28	0.13	0.00	1.41	0.00	20.0	0.0	0.	0.00
79	74.250	32.08	0.0	0.0	0.0	5.09	2.40	0.00	2.40	0.00	1.27	0.13	0.00	1.40	0.00	20.0	0.0	0.	0.00
80	74.000	32.08	0.0	0.0	0.0	5.16	2.40	0.00	2.40	0.00	1.26	0.13	0.00	1.39	0.00	20.0	0.0	0.	0.00
81	73.750	32.08	0.0	0.0	0.0	5.22	2.39	0.00	2.39	0.00	1.25	0.12	0.00	1.38	0.00	20.0	0.0	0.	0.00
82	73.500	32.08	0.0	0.0	0.0	5.29	2.39	0.00	2.39	0.00	1.24	0.12	0.00	1.37	0.00	20.0	0.0	0.	0.00
83	73.250	32.09	0.0	0.0	0.0	5.36	2.38	0.00	2.38	0.00	1.23	0.12	0.00	1.36	0.00	20.0	0.0	0.	0.00
84	73.000	32.09	0.0	0.0	0.0	5.42	2.38	0.00	2.38	0.00	1.23	0.12	0.00	1.35	0.00	20.0	0.0	0.	0.00
85	72.750	32.09	0.0	0.0	0.0	5.48	2.38	0.00	2.38	0.00	1.22	0.12	0.00	1.34	0.00	20.0	0.0	0.	0.00
86	72.500	32.09	0.0	0.0	0.0	5.54	2.38	0.00	2.38	0.00	1.21	0.12	0.00	1.33	0.00	20.0	0.0	0.	0.00
87	72.250	32.09	0.0	0.0	0.0	5.60	2.39	0.00	2.39	0.00	1.20	0.12	0.00	1.32	0.00	20.0	0.0	0.	0.00
88	72.000	32.10	0.0	0.0	0.0	5.65	2.45	0.00	2.45	0.00	1.20	0.12	0.00	1.31	0.00	20.0	0.0	0.	0.00
89	71.750	32.10	0.0	0.0	0.0	5.72	2.69	0.00	2.69	0.00	1.21	0.11	0.00	1.32	0.00	20.0	0.0	0.	0.00
90	71.500	32.10	0.0	0.0	0.0	5.70	2.64	0.00	2.64	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00
91	71.250	32.11	0.0	0.0	0.0	5.58	2.60	0.00	2.60	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00
92	71.000	32.11	0.0	0.0	0.0	5.48	2.56	0.00	2.56	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00
93	70.750	32.12	0.0	0.0	0.0	5.40	2.53	0.00	2.53	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00
94	70.500	32.12	0.0	0.0	0.0	5.32	2.51	0.00	2.51	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
95	70.250	32.13	0.0	0.0	0.0	5.26	2.49	0.00	2.49	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
96	70.000	32.13	0.0	0.0	0.0	5.20	2.47	0.00	2.47	0.00	1.17	0.11	0.00	1.28	0.00	20.0	0.0	0.	0.00
97	69.750	32.14	0.0	0.0	0.0	5.15	2.46	0.00	2.46	0.00	1.17	0.11	0.00	1.28	0.00	20.0	0.0	0.	0.00
98	69.500	32.14	0.0	0.0	0.0	5.11	2.45	0.00	2.45	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00
99	69.250	32.15	0.0	0.0	0.0	5.07	2.44	0.00	2.44	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00
100	69.000	32.15	0.0	0.0	0.0	5.03	2.44	0.00	2.44	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00
101	68.750	32.16	0.0	0.0	0.0	5.00	2.43	0.00	2.43	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
102	68.500	32.16	0.0	0.0	0.0	4.97	2.42	0.00	2.42	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
103	68.250	32.17	0.0	0.0	0.0	4.95	2.42	0.00	2.42	0.00	1.15	0.11	0.00	1.25	0.00	20.0	0.0	0.	0.00
104	68.000	32.17	0.0	0.0	0.0	4.93	2.42	0.00	2.42	0.00	1.14	0.11	0.00	1.25	0.00	20.0	0.0	0.	0.00
105	67.750	32.18	0.0	0.0	0.0	4.91	2.41	0.00	2.41	0.00	1.14	0.11	0.00	1.25	0.00	20.0	0.0	0.	0.00
106	67.500	32.18	0.0	0.0	0.0	4.89	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.24	0.00	20.0	0.0	0.	0.00
107	67.250	32.19	0.0	0.0	0.0	4.87	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.24	0.00	20.0	0.0	0.	0.00
108	67.000	32.19	0.0	0.0	0.0	4.86	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.24	0.00	20.0	0.0	0.	0.00
109	66.750	32.20	0.0	0.0	0.0	4.84	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.23	0.00	20.0	0.0	0.	0.00
110	66.500	32.21	0.0	0.0	0.0	4.83	2.40	0.00	2.40	0.00	1.12	0.11	0.00	1.23	0.00	20.0	0.0	0.	0.00
111	66.250	32.21	0.0	0.0	0.0	4.82	2.40	0.00	2.40	0.00	1.12	0.11	0.00	1.23	0.00	20.0	0.0	0.	0.00
112	66.000	32.22	0.0	0.0	0.0	4.81	2.40	0.00	2.40	0.00	1.12	0.11	0.00	1.22	0.00	20.0	0.0	0.	0.00
113	65.750	32.22	0.0	0.0	0.0	4.80	2.41	0.00	2.41	0.00	1.11	0.11	0.00	1.22	0.00	20.0	0.0	0.	0.00
114	65.500	32.23	0.0	0.0	0.0	4.79	2.42	0.00	2.42	0.00	1.11	0.11	0.00	1.22	0.00	20.0	0.0	0.	0.00

115	65.250	32.23	0.0	0.0	0.0	4.79	2.48	0.00	2.48	0.00	1.12	0.11	0.00	1.23	0.00	20.0	0.0	0.	0.00
116	65.000	32.24	0.0	0.0	0.0	4.86	2.76	0.00	2.76	0.00	1.15	0.11	0.00	1.25	0.00	20.0	0.0	0.	0.00
117	64.750	32.24	0.0	0.0	0.0	5.36	3.99	0.00	3.99	0.00	1.25	0.10	0.00	1.35	0.00	20.0	0.0	0.	0.00
118	64.500	32.25	0.0	0.0	0.0	5.17	3.82	0.00	3.82	0.00	1.24	0.11	0.00	1.35	0.00	20.0	0.0	0.	0.00
119	64.250	32.25	0.0	0.0	0.0	5.01	3.66	0.00	3.66	0.00	1.24	0.11	0.00	1.35	0.00	20.0	0.0	0.	0.00
120	64.000	32.26	0.0	0.0	0.0	4.86	3.52	0.00	3.52	0.00	1.24	0.11	0.00	1.35	0.00	20.0	0.0	0.	0.00
121	63.750	32.26	0.0	0.0	0.0	4.74	3.40	0.00	3.40	0.00	1.24	0.11	0.00	1.34	0.00	20.0	0.0	0.	0.00
122	63.500	32.27	0.0	0.0	0.0	4.63	3.29	0.00	3.29	0.00	1.23	0.11	0.00	1.34	0.00	20.0	0.0	0.	0.00
123	63.250	32.27	0.0	0.0	0.0	4.53	3.19	0.00	3.19	0.00	1.23	0.11	0.00	1.34	0.00	20.0	0.0	0.	0.00
124	63.000	32.28	0.0	0.0	0.0	4.45	3.10	0.00	3.10	0.00	1.23	0.11	0.00	1.34	0.00	20.0	0.0	0.	0.00
125	62.750	32.28	0.0	0.0	0.0	4.38	3.03	0.00	3.03	0.00	1.22	0.11	0.00	1.34	0.00	20.0	0.0	0.	0.00
126	62.500	32.29	0.0	0.0	0.0	4.32	2.96	0.00	2.96	0.00	1.22	0.11	0.00	1.33	0.00	20.0	0.0	0.	0.00
127	62.250	32.29	0.0	0.0	0.0	4.27	2.90	0.00	2.90	0.00	1.22	0.11	0.00	1.33	0.00	20.0	0.0	0.	0.00
128	62.000	32.30	0.0	0.0	0.0	4.23	2.85	0.00	2.85	0.00	1.22	0.11	0.00	1.33	0.00	20.0	0.0	0.	0.00
129	61.750	32.30	0.0	0.0	0.0	4.21	2.82	0.00	2.82	0.00	1.22	0.11	0.00	1.33	0.00	20.0	0.0	0.	0.00
130	61.500	32.29	0.0	0.0	0.0	4.19	2.79	0.00	2.79	0.00	1.21	0.11	0.00	1.33	0.00	20.1	0.0	0.	0.00
131	61.250	32.29	0.0	0.0	0.0	4.17	2.76	0.00	2.76	0.00	1.21	0.11	0.00	1.33	0.00	20.1	0.0	0.	0.00
132	61.000	32.28	0.0	0.0	0.0	4.15	2.74	0.00	2.74	0.00	1.21	0.11	0.00	1.33	0.00	20.2	0.0	0.	0.00
133	60.750	32.28	0.0	0.0	0.0	4.13	2.71	0.00	2.71	0.00	1.21	0.12	0.00	1.33	0.00	20.2	0.0	0.	0.00
134	60.500	32.27	0.0	0.0	0.0	4.11	2.69	0.00	2.69	0.00	1.21	0.12	0.00	1.32	0.00	20.2	0.0	0.	0.00
135	60.250	32.27	0.0	0.0	0.0	4.10	2.67	0.00	2.67	0.00	1.21	0.12	0.00	1.32	0.00	20.3	0.0	0.	0.00
136	60.000	32.27	0.0	0.0	0.0	4.09	2.65	0.00	2.65	0.00	1.21	0.12	0.00	1.32	0.00	20.3	0.0	0.	0.00
137	59.750	32.26	0.0	0.0	0.0	4.08	2.63	0.00	2.63	0.00	1.21	0.12	0.00	1.32	0.00	20.4	0.0	0.	0.00
138	59.500	32.26	0.0	0.0	0.0	4.07	2.61	0.00	2.61	0.00	1.20	0.12	0.00	1.32	0.00	20.4	0.0	0.	0.00
139	59.250	32.25	0.0	0.0	0.0	4.07	2.59	0.00	2.59	0.00	1.20	0.12	0.00	1.32	0.00	20.5	0.0	0.	0.00
140	59.000	32.25	0.0	0.0	0.0	4.06	2.58	0.00	2.58	0.00	1.20	0.12	0.00	1.32	0.00	20.5	0.0	0.	0.00
141	58.750	32.25	0.0	0.0	0.0	4.06	2.56	0.00	2.56	0.00	1.20	0.12	0.00	1.32	0.00	20.5	0.0	0.	0.00
142	58.500	32.24	0.0	0.0	0.0	4.05	2.55	0.00	2.55	0.00	1.20	0.12	0.00	1.32	0.00	20.6	0.0	0.	0.00
143	58.250	32.24	0.0	0.0	0.0	4.05	2.53	0.00	2.53	0.00	1.20	0.12	0.00	1.32	0.00	20.6	0.0	0.	0.00
144	58.000	32.23	0.0	0.0	0.0	4.05	2.52	0.00	2.52	0.00	1.20	0.12	0.00	1.32	0.00	20.7	0.0	0.	0.00
145	57.750	32.23	0.0	0.0	0.0	4.05	2.51	0.00	2.51	0.00	1.20	0.12	0.00	1.31	0.00	20.7	0.0	0.	0.00
146	57.500	32.22	0.0	0.0	0.0	4.05	2.50	0.00	2.50	0.00	1.20	0.12	0.00	1.31	0.00	20.8	0.0	0.	0.00
147	57.250	32.22	0.0	0.0	0.0	4.06	2.49	0.00	2.49	0.00	1.20	0.12	0.00	1.31	0.00	20.8	0.0	0.	0.00
148	57.000	32.22	0.0	0.0	0.0	4.06	2.48	0.00	2.48	0.00	1.19	0.12	0.00	1.31	0.00	20.8	0.0	0.	0.00
149	56.750	32.21	0.0	0.0	0.0	4.06	2.47	0.00	2.47	0.00	1.19	0.12	0.00	1.31	0.00	20.9	0.0	0.	0.00
150	56.500	32.21	0.0	0.0	0.0	4.07	2.46	0.00	2.46	0.00	1.19	0.12	0.00	1.31	0.00	20.9	0.0	0.	0.00
151	56.250	32.20	0.0	0.0	0.0	4.08	2.45	0.00	2.45	0.00	1.19	0.12	0.00	1.31	0.00	21.0	0.0	0.	0.00
152	56.000	32.20	0.0	0.0	0.0	4.08	2.44	0.00	2.44	0.00	1.19	0.12	0.00	1.31	0.00	21.0	0.0	0.	0.00
153	55.750	32.20	0.0	0.0	0.0	4.09	2.44	0.00	2.44	0.00	1.19	0.12	0.00	1.31	0.00	21.0	0.0	0.	0.00
154	55.500	32.19	0.0	0.0	0.0	4.10	2.43	0.00	2.43	0.00	1.19	0.12	0.00	1.31	0.00	21.1	0.0	0.	0.00
155	55.250	32.19	0.0	0.0	0.0	4.11	2.42	0.00	2.42	0.00	1.19	0.12	0.00	1.30	0.00	21.1	0.0	0.	0.00
156	55.000	32.18	0.0	0.0	0.0	4.12	2.42	0.00	2.42	0.00	1.19	0.12	0.00	1.30	0.00	21.2	0.0	0.	0.00
157	54.750	32.18	0.0	0.0	0.0	4.13	2.41	0.00	2.41	0.00	1.19	0.12	0.00	1.30	0.00	21.2	0.0	0.	0.00
158	54.500	32.17	0.0	0.0	0.0	4.14	2.40	0.00	2.40	0.00	1.18	0.12	0.00	1.30	0.00	21.2	0.0	0.	0.00
159	54.250	32.17	0.0	0.0	0.0	4.15	2.40	0.00	2.40	0.00	1.18	0.12	0.00	1.30	0.00	21.3	0.0	0.	0.00
160	54.000	32.17	0.0	0.0	0.0	4.16	2.39	0.00	2.39	0.00	1.18	0.12	0.00	1.30	0.00	21.3	0.0	0.	0.00
161	53.750	32.16	0.0	0.0	0.0	4.17	2.39	0.00	2.39	0.00	1.18	0.12	0.00	1.30	0.00	21.4	0.0	0.	0.00
162	53.500	32.16	0.0	0.0	0.0	4.18	2.38	0.00	2.38	0.00	1.18	0.12	0.00	1.30	0.00	21.4	0.0	0.	0.00
163	53.250	32.15	0.0	0.0	0.0	4.20	2.38	0.00	2.38	0.00	1.18	0.12	0.00	1.30	0.00	21.5	0.0	0.	0.00
164	53.000	32.15	0.0	0.0	0.0	4.21	2.38	0.00	2.38	0.00	1.18	0.12	0.00	1.30	0.00	21.5	0.0	0.	0.00

165	52.750	32.15	0.0	0.0	0.0	4.22	2.37	0.00	2.37	0.00	1.18	0.12	0.00	1.29	0.00	21.5	0.0	0.	0.00
166	52.500	32.14	0.0	0.0	0.0	4.24	2.37	0.00	2.37	0.00	1.18	0.12	0.00	1.29	0.00	21.6	0.0	0.	0.00
167	52.250	32.14	0.0	0.0	0.0	4.25	2.37	0.00	2.37	0.00	1.18	0.12	0.00	1.29	0.00	21.6	0.0	0.	0.00
168	52.000	32.13	0.0	0.0	0.0	4.27	2.36	0.00	2.36	0.00	1.18	0.12	0.00	1.29	0.00	21.7	0.0	0.	0.00
169	51.750	32.13	0.0	0.0	0.0	4.28	2.36	0.00	2.36	0.00	1.17	0.12	0.00	1.29	0.00	21.7	0.0	0.	0.00
170	51.500	32.12	0.0	0.0	0.0	4.30	2.36	0.00	2.36	0.00	1.17	0.12	0.00	1.29	0.00	21.8	0.0	0.	0.00
171	51.250	32.12	0.0	0.0	0.0	4.31	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.8	0.0	0.	0.00
172	51.000	32.12	0.0	0.0	0.0	4.33	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.8	0.0	0.	0.00
173	50.750	32.11	0.0	0.0	0.0	4.35	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.9	0.0	0.	0.00
174	50.500	32.11	0.0	0.0	0.0	4.36	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.9	0.0	0.	0.00
175	50.250	32.10	0.0	0.0	0.0	4.38	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	22.0	0.0	0.	0.00
176	50.000	32.10	0.0	0.0	0.0	4.40	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.0	0.0	0.	0.00
177	49.750	32.10	0.0	0.0	0.0	4.42	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.0	0.0	0.	0.00
178	49.500	32.09	0.0	0.0	0.0	4.43	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.1	0.0	0.	0.00
179	49.250	32.09	0.0	0.0	0.0	4.45	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.1	0.0	0.	0.00
180	49.000	32.08	0.0	0.0	0.0	4.52	2.38	0.00	2.38	0.00	1.17	0.11	0.00	1.28	0.00	22.2	0.0	0.	0.00
181	48.750	32.08	0.0	0.0	0.0	5.17	2.90	0.00	2.90	0.00	1.19	0.11	0.00	1.31	0.00	22.2	0.0	0.	0.00
182	48.500	32.08	0.0	0.0	0.0	5.15	2.88	0.00	2.88	0.00	1.19	0.11	0.00	1.31	0.00	22.2	0.0	0.	0.00
183	48.250	32.07	0.0	0.0	0.0	5.14	2.85	0.00	2.85	0.00	1.19	0.11	0.00	1.30	0.00	22.3	0.0	0.	0.00
184	48.000	32.07	0.0	0.0	0.0	5.12	2.82	0.00	2.82	0.00	1.19	0.11	0.00	1.30	0.00	22.3	0.0	0.	0.00
185	47.750	32.06	0.0	0.0	0.0	5.11	2.80	0.00	2.80	0.00	1.19	0.11	0.00	1.30	0.00	22.4	0.0	0.	0.00
186	47.500	32.06	0.0	0.0	0.0	5.09	2.78	0.00	2.78	0.00	1.19	0.11	0.00	1.30	0.00	22.4	0.0	0.	0.00
187	47.250	32.05	0.0	0.0	0.0	5.08	2.76	0.00	2.76	0.00	1.19	0.11	0.00	1.30	0.00	22.5	0.0	0.	0.00
188	47.000	32.05	0.0	0.0	0.0	5.07	2.74	0.00	2.74	0.00	1.19	0.11	0.00	1.30	0.00	22.5	0.0	0.	0.00
189	46.750	32.05	0.0	0.0	0.0	5.07	2.72	0.00	2.72	0.00	1.19	0.11	0.00	1.30	0.00	22.5	0.0	0.	0.00
190	46.500	32.04	0.0	0.0	0.0	5.06	2.70	0.00	2.70	0.00	1.19	0.11	0.00	1.30	0.00	22.6	0.0	0.	0.00
191	46.250	32.04	0.0	0.0	0.0	5.06	2.68	0.00	2.68	0.00	1.19	0.11	0.00	1.30	0.00	22.6	0.0	0.	0.00
192	46.000	32.03	0.0	0.0	0.0	5.05	2.66	0.00	2.66	0.00	1.18	0.11	0.00	1.30	0.00	22.7	0.0	0.	0.00
193	45.750	32.03	0.0	0.0	0.0	5.05	2.65	0.00	2.65	0.00	1.18	0.11	0.00	1.30	0.00	22.7	0.0	0.	0.00
194	45.500	32.02	0.0	0.0	0.0	5.05	2.63	0.00	2.63	0.00	1.18	0.11	0.00	1.30	0.00	22.8	0.0	0.	0.00
195	45.250	32.02	0.0	0.0	0.0	5.05	2.62	0.00	2.62	0.00	1.18	0.11	0.00	1.29	0.00	22.8	0.0	0.	0.00
196	45.000	32.02	0.0	0.0	0.0	5.05	2.60	0.00	2.60	0.00	1.18	0.11	0.00	1.29	0.00	22.8	0.0	0.	0.00
197	44.750	32.01	0.0	0.0	0.0	5.05	2.59	0.00	2.59	0.00	1.18	0.11	0.00	1.29	0.00	22.9	0.0	0.	0.00
198	44.500	32.01	0.0	0.0	0.0	5.05	2.58	0.00	2.58	0.00	1.18	0.11	0.00	1.29	0.00	22.9	0.0	0.	0.00
199	44.250	32.00	0.0	0.0	0.0	5.06	2.57	0.00	2.57	0.00	1.18	0.11	0.00	1.29	0.00	23.0	0.0	0.	0.00
200	44.000	32.00	0.0	0.0	0.0	5.06	2.55	0.00	2.55	0.00	1.18	0.11	0.00	1.29	0.00	23.0	0.0	0.	0.00
201	43.750	32.00	0.0	0.0	0.0	5.07	2.54	0.00	2.54	0.00	1.18	0.11	0.00	1.29	0.00	23.0	0.0	0.	0.00
202	43.500	31.99	0.0	0.0	0.0	5.07	2.53	0.00	2.53	0.00	1.18	0.11	0.00	1.29	0.00	23.1	0.0	0.	0.00
203	43.250	31.99	0.0	0.0	0.0	5.08	2.52	0.00	2.52	0.00	1.18	0.11	0.00	1.29	0.00	23.1	0.0	0.	0.00
204	43.000	31.98	0.0	0.0	0.0	5.09	2.51	0.00	2.51	0.00	1.18	0.11	0.00	1.29	0.00	23.2	0.0	0.	0.00
205	42.750	31.98	0.0	0.0	0.0	5.10	2.51	0.00	2.51	0.00	1.17	0.11	0.00	1.29	0.00	23.2	0.0	0.	0.00
206	42.500	31.98	0.0	0.0	0.0	5.10	2.50	0.00	2.50	0.00	1.17	0.11	0.00	1.29	0.00	23.2	0.0	0.	0.00
207	42.250	31.97	0.0	0.0	0.0	5.11	2.49	0.00	2.49	0.00	1.17	0.11	0.00	1.28	0.00	23.3	0.0	0.	0.00
208	42.000	31.97	0.0	0.0	0.0	5.12	2.48	0.00	2.48	0.00	1.17	0.11	0.00	1.28	0.00	23.3	0.0	0.	0.00
209	41.750	31.96	0.0	0.0	0.0	5.13	2.47	0.00	2.47	0.00	1.17	0.11	0.00	1.28	0.00	23.4	0.0	0.	0.00
210	41.500	31.96	0.0	0.0	0.0	5.15	2.47	0.00	2.47	0.00	1.17	0.11	0.00	1.28	0.00	23.4	0.0	0.	0.00
211	41.250	31.95	0.0	0.0	0.0	5.16	2.46	0.00	2.46	0.00	1.17	0.11	0.00	1.28	0.00	23.5	0.0	0.	0.00
212	41.000	31.95	0.0	0.0	0.0	5.17	2.46	0.00	2.46	0.00	1.17	0.11	0.00	1.28	0.00	23.5	0.0	0.	0.00
213	40.750	31.95	0.0	0.0	0.0	5.18	2.45	0.00	2.45	0.00	1.17	0.11	0.00	1.28	0.00	23.5	0.0	0.	0.00
214	40.500	31.94	0.0	0.0	0.0	5.20	2.44	0.00	2.44	0.00	1.17	0.11	0.00	1.28	0.00	23.6	0.0	0.	0.00

215	40.250	31.94	0.0	0.0	0.0	5.21	2.44	0.00	2.44	0.00	1.17	0.11	0.00	1.28	0.00	23.6	0.0	0.	0.00
216	40.000	31.93	0.0	0.0	0.0	5.22	2.43	0.00	2.43	0.00	1.17	0.11	0.00	1.28	0.00	23.7	0.0	0.	0.00
217	39.750	31.93	0.0	0.0	0.0	5.24	2.43	0.00	2.43	0.00	1.17	0.11	0.00	1.28	0.00	23.7	0.0	0.	0.00
218	39.500	31.92	0.0	0.0	0.0	5.25	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.28	0.00	23.8	0.0	0.	0.00
219	39.250	31.92	0.0	0.0	0.0	5.27	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.28	0.00	23.8	0.0	0.	0.00
220	39.000	31.92	0.0	0.0	0.0	5.28	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.27	0.00	23.8	0.0	0.	0.00
221	38.750	31.91	0.0	0.0	0.0	5.30	2.41	0.00	2.41	0.00	1.16	0.11	0.00	1.27	0.00	23.9	0.0	0.	0.00
222	38.500	31.91	0.0	0.0	0.0	5.34	2.41	0.00	2.41	0.00	1.16	0.11	0.00	1.27	0.00	23.9	0.0	0.	0.00
223	38.250	31.90	0.0	0.0	0.0	5.37	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.27	0.00	24.0	0.0	0.	0.00
224	38.000	31.90	0.0	0.0	0.0	5.33	2.58	0.00	2.58	0.00	1.17	0.11	0.00	1.28	0.00	24.0	0.0	0.	0.00
405	37.750	31.90	0.0	0.0	0.0	5.13	3.16	0.00	3.16	0.00	1.20	0.11	0.00	1.31	0.00	24.0	0.0	0.	0.00
406	37.500	31.90	0.0	0.0	0.0	5.19	3.22	0.00	3.22	0.00	1.20	0.11	0.00	1.31	0.00	24.0	0.0	0.	0.00
407	37.250	31.90	0.0	0.0	0.0	5.23	3.28	0.00	3.28	0.00	1.20	0.11	0.00	1.31	0.00	23.9	0.0	0.	0.00
408	37.000	31.91	0.0	0.0	0.0	5.27	3.33	0.00	3.33	0.00	1.19	0.11	0.00	1.31	0.00	23.9	0.0	0.	0.00
409	36.750	31.91	0.0	0.0	0.0	5.31	3.38	0.00	3.38	0.00	1.19	0.11	0.00	1.31	0.00	23.9	0.0	0.	0.00
410	36.500	31.91	0.0	0.0	0.0	5.33	3.43	0.00	3.43	0.00	1.19	0.11	0.00	1.31	0.00	23.9	0.0	0.	0.00
411	36.250	31.91	0.0	0.0	0.0	5.32	3.49	0.00	3.49	0.00	1.20	0.11	0.00	1.31	0.00	23.9	0.0	0.	0.00
412	36.000	31.91	0.0	0.0	0.0	5.27	3.62	0.00	3.62	0.00	1.20	0.11	0.00	1.31	0.00	23.8	0.0	0.	0.00
413	35.750	31.91	0.0	0.0	0.0	5.08	3.95	0.00	3.95	0.00	1.23	0.11	0.00	1.34	0.00	23.8	0.0	0.	0.00
414	35.500	31.91	0.0	0.0	0.0	5.06	3.95	0.00	3.95	0.00	1.22	0.11	0.00	1.34	0.00	23.8	0.0	0.	0.00
415	35.250	31.91	0.0	0.0	0.0	5.05	3.94	0.00	3.94	0.00	1.22	0.12	0.00	1.34	0.00	23.8	0.0	0.	0.00
416	35.000	31.92	0.0	0.0	0.0	5.04	3.93	0.00	3.93	0.00	1.22	0.12	0.00	1.34	0.00	23.8	0.0	0.	0.00
417	34.750	31.92	0.0	0.0	0.0	5.02	3.93	0.00	3.93	0.00	1.22	0.12	0.00	1.34	0.00	23.7	0.0	0.	0.00
418	34.500	31.92	0.0	0.0	0.0	5.01	3.92	0.00	3.92	0.00	1.22	0.12	0.00	1.33	0.00	23.7	0.0	0.	0.00
419	34.250	31.92	0.0	0.0	0.0	5.00	3.91	0.00	3.91	0.00	1.22	0.12	0.00	1.33	0.00	23.7	0.0	0.	0.00
420	34.000	31.92	0.0	0.0	0.0	4.99	3.91	0.00	3.91	0.00	1.22	0.12	0.00	1.33	0.00	23.7	0.0	0.	0.00
421	33.750	31.92	0.0	0.0	0.0	4.98	3.90	0.00	3.90	0.00	1.21	0.12	0.00	1.33	0.00	23.7	0.0	0.	0.00
422	33.500	31.92	0.0	0.0	0.0	4.97	3.90	0.00	3.90	0.00	1.21	0.12	0.00	1.33	0.00	23.6	0.0	0.	0.00
423	33.250	31.92	0.0	0.0	0.0	4.96	3.90	0.00	3.90	0.00	1.21	0.12	0.00	1.33	0.00	23.6	0.0	0.	0.00
424	33.000	31.93	0.0	0.0	0.0	4.95	3.89	0.00	3.89	0.00	1.21	0.12	0.00	1.33	0.00	23.6	0.0	0.	0.00
425	32.750	31.93	0.0	0.0	0.0	4.94	3.89	0.00	3.89	0.00	1.21	0.12	0.00	1.33	0.00	23.6	0.0	0.	0.00
426	32.500	31.93	0.0	0.0	0.0	4.93	3.89	0.00	3.89	0.00	1.21	0.12	0.00	1.32	0.00	23.6	0.0	0.	0.00
427	32.250	31.93	0.0	0.0	0.0	4.92	3.88	0.00	3.88	0.00	1.21	0.12	0.00	1.32	0.00	23.5	0.0	0.	0.00
428	32.000	31.93	0.0	0.0	0.0	4.91	3.88	0.00	3.88	0.00	1.21	0.12	0.00	1.32	0.00	23.5	0.0	0.	0.00
429	31.750	31.93	0.0	0.0	0.0	4.90	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	23.5	0.0	0.	0.00
430	31.500	31.93	0.0	0.0	0.0	4.89	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	23.5	0.0	0.	0.00
431	31.250	31.94	0.0	0.0	0.0	4.88	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	23.5	0.0	0.	0.00
432	31.000	31.94	0.0	0.0	0.0	4.87	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.32	0.00	23.4	0.0	0.	0.00
433	30.750	31.94	0.0	0.0	0.0	4.87	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.32	0.00	23.4	0.0	0.	0.00
434	30.500	31.94	0.0	0.0	0.0	4.86	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.31	0.00	23.4	0.0	0.	0.00
435	30.250	31.94	0.0	0.0	0.0	4.85	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.31	0.00	23.4	0.0	0.	0.00
436	30.000	31.94	0.0	0.0	0.0	4.84	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.31	0.00	23.4	0.0	0.	0.00
437	29.750	31.94	0.0	0.0	0.0	4.83	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.31	0.00	23.3	0.0	0.	0.00
438	29.500	31.94	0.0	0.0	0.0	4.82	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	23.3	0.0	0.	0.00
439	29.250	31.95	0.0	0.0	0.0	4.82	3.86	0.00	3.86	0.00	1.19	0.12	0.00	1.31	0.00	23.3	0.0	0.	0.00
440	29.000	31.95	0.0	0.0	0.0	4.81	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.31	0.00	23.3	0.0	0.	0.00
441	28.750	31.95	0.0	0.0	0.0	4.80	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.31	0.00	23.3	0.0	0.	0.00
442	28.500	31.95	0.0	0.0	0.0	4.79	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.30	0.00	23.2	0.0	0.	0.00
443	28.250	31.95	0.0	0.0	0.0	4.78	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.30	0.00	23.2	0.0	0.	0.00
444	28.000	31.95	0.0	0.0	0.0	4.78	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.30	0.00	23.2	0.0	0.	0.00

445	27.750	31.95	0.0	0.0	0.0	4.77	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.30	0.00	23.2	0.0	0.	0.00
446	27.500	31.96	0.0	0.0	0.0	4.76	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.30	0.00	23.2	0.0	0.	0.00
447	27.250	31.96	0.0	0.0	0.0	4.75	3.86	0.00	3.86	0.00	1.18	0.11	0.00	1.30	0.00	23.2	0.0	0.	0.00
448	27.000	31.96	0.0	0.0	0.0	4.74	3.86	0.00	3.86	0.00	1.18	0.11	0.00	1.30	0.00	23.1	0.0	0.	0.00
449	26.750	31.96	0.0	0.0	0.0	4.73	3.86	0.00	3.86	0.00	1.18	0.11	0.00	1.30	0.00	23.1	0.0	0.	0.00
450	26.500	31.96	0.0	0.0	0.0	4.73	3.86	0.00	3.86	0.00	1.18	0.11	0.00	1.30	0.00	23.1	0.0	0.	0.00
451	26.250	31.96	0.0	0.0	0.0	4.72	3.86	0.00	3.86	0.00	1.18	0.11	0.00	1.30	0.00	23.1	0.0	0.	0.00
452	26.000	31.96	0.0	0.0	0.0	4.71	3.85	0.00	3.85	0.00	1.18	0.11	0.00	1.29	0.00	23.1	0.0	0.	0.00
453	25.750	31.96	0.0	0.0	0.0	4.70	3.85	0.00	3.85	0.00	1.18	0.11	0.00	1.29	0.00	23.0	0.0	0.	0.00
454	25.500	31.97	0.0	0.0	0.0	4.69	3.85	0.00	3.85	0.00	1.18	0.11	0.00	1.29	0.00	23.0	0.0	0.	0.00
455	25.250	31.97	0.0	0.0	0.0	4.69	3.85	0.00	3.85	0.00	1.18	0.11	0.00	1.29	0.00	23.0	0.0	0.	0.00
456	25.000	31.97	0.0	0.0	0.0	4.68	3.85	0.00	3.85	0.00	1.18	0.11	0.00	1.29	0.00	23.0	0.0	0.	0.00
457	24.750	31.97	0.0	0.0	0.0	4.67	3.85	0.00	3.85	0.00	1.18	0.11	0.00	1.29	0.00	23.0	0.0	0.	0.00
458	24.500	31.97	0.0	0.0	0.0	4.66	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.29	0.00	22.9	0.0	0.	0.00
459	24.250	31.97	0.0	0.0	0.0	4.65	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.29	0.00	22.9	0.0	0.	0.00
460	24.000	31.97	0.0	0.0	0.0	4.64	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.29	0.00	22.9	0.0	0.	0.00
461	23.750	31.97	0.0	0.0	0.0	4.64	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.29	0.00	22.9	0.0	0.	0.00
462	23.500	31.98	0.0	0.0	0.0	4.63	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.28	0.00	22.9	0.0	0.	0.00
463	23.250	31.98	0.0	0.0	0.0	4.62	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.28	0.00	22.8	0.0	0.	0.00
464	23.000	31.98	0.0	0.0	0.0	4.61	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.28	0.00	22.8	0.0	0.	0.00
465	22.750	31.98	0.0	0.0	0.0	4.60	3.86	0.00	3.86	0.00	1.17	0.11	0.00	1.28	0.00	22.8	0.0	0.	0.00
466	22.500	31.98	0.0	0.0	0.0	4.58	3.87	0.00	3.87	0.00	1.17	0.11	0.00	1.28	0.00	22.8	0.0	0.	0.00
467	22.250	31.98	0.0	0.0	0.0	4.55	3.94	0.00	3.94	0.00	1.17	0.11	0.00	1.28	0.00	22.8	0.0	0.	0.00
468	22.000	31.98	0.0	0.0	0.0	4.48	4.15	0.00	4.15	0.00	1.18	0.11	0.00	1.29	0.00	22.7	0.0	0.	0.00
469	21.750	31.99	0.0	0.0	0.0	4.31	4.91	0.00	4.91	0.00	1.20	0.11	0.00	1.31	0.00	22.7	0.0	0.	0.00
470	21.500	31.99	0.0	0.0	0.0	4.24	4.84	0.00	4.84	0.00	1.20	0.11	0.00	1.31	0.00	22.7	0.0	0.	0.00
471	21.250	31.99	0.0	0.0	0.0	4.18	4.77	0.00	4.77	0.00	1.20	0.11	0.00	1.31	0.00	22.7	0.0	0.	0.00
472	21.000	31.99	0.0	0.0	0.0	4.12	4.71	0.00	4.71	0.00	1.20	0.11	0.00	1.31	0.00	22.7	0.0	0.	0.00
473	20.750	31.99	0.0	0.0	0.0	4.07	4.65	0.00	4.65	0.00	1.20	0.11	0.00	1.31	0.00	22.6	0.0	0.	0.00
474	20.500	31.99	0.0	0.0	0.0	4.02	4.59	0.00	4.59	0.00	1.20	0.11	0.00	1.31	0.00	22.6	0.0	0.	0.00
475	20.250	31.99	0.0	0.0	0.0	3.97	4.54	0.00	4.54	0.00	1.19	0.11	0.00	1.31	0.00	22.6	0.0	0.	0.00
476	20.000	31.99	0.0	0.0	0.0	3.93	4.50	0.00	4.50	0.00	1.19	0.11	0.00	1.31	0.00	22.6	0.0	0.	0.00
477	19.750	32.00	0.0	0.0	0.0	3.89	4.45	0.00	4.45	0.00	1.19	0.11	0.00	1.31	0.00	22.6	0.0	0.	0.00
478	19.500	32.00	0.0	0.0	0.0	3.86	4.41	0.00	4.41	0.00	1.19	0.12	0.00	1.31	0.00	22.5	0.0	0.	0.00
479	19.250	32.00	0.0	0.0	0.0	3.83	4.37	0.00	4.37	0.00	1.19	0.12	0.00	1.31	0.00	22.5	0.0	0.	0.00
480	19.000	32.00	0.0	0.0	0.0	3.80	4.34	0.00	4.34	0.00	1.19	0.12	0.00	1.31	0.00	22.5	0.0	0.	0.00
481	18.750	32.00	0.0	0.0	0.0	3.77	4.30	0.00	4.30	0.00	1.19	0.12	0.00	1.31	0.00	22.5	0.0	0.	0.00
482	18.500	32.00	0.0	0.0	0.0	3.75	4.27	0.00	4.27	0.00	1.19	0.12	0.00	1.30	0.00	22.5	0.0	0.	0.00
483	18.250	32.00	0.0	0.0	0.0	3.73	4.24	0.00	4.24	0.00	1.19	0.12	0.00	1.30	0.00	22.4	0.0	0.	0.00
484	18.000	32.01	0.0	0.0	0.0	3.71	4.22	0.00	4.22	0.00	1.19	0.12	0.00	1.30	0.00	22.4	0.0	0.	0.00
485	17.750	32.01	0.0	0.0	0.0	3.69	4.19	0.00	4.19	0.00	1.19	0.12	0.00	1.30	0.00	22.4	0.0	0.	0.00
486	17.500	32.01	0.0	0.0	0.0	3.68	4.17	0.00	4.17	0.00	1.19	0.12	0.00	1.30	0.00	22.4	0.0	0.	0.00
487	17.250	32.01	0.0	0.0	0.0	3.66	4.15	0.00	4.15	0.00	1.18	0.12	0.00	1.30	0.00	22.4	0.0	0.	0.00
488	17.000	32.01	0.0	0.0	0.0	3.65	4.13	0.00	4.13	0.00	1.18	0.12	0.00	1.30	0.00	22.3	0.0	0.	0.00
489	16.750	32.01	0.0	0.0	0.0	3.64	4.11	0.00	4.11	0.00	1.18	0.12	0.00	1.30	0.00	22.3	0.0	0.	0.00
490	16.500	32.01	0.0	0.0	0.0	3.63	4.09	0.00	4.09	0.00	1.18	0.12	0.00	1.30	0.00	22.3	0.0	0.	0.00
491	16.250	32.01	0.0	0.0	0.0	3.62	4.08	0.00	4.08	0.00	1.18	0.12	0.00	1.30	0.00	22.3	0.0	0.	0.00
492	16.000	32.02	0.0	0.0	0.0	3.61	4.08	0.00	4.08	0.00	1.18	0.12	0.00	1.30	0.00	22.3	0.0	0.	0.00
493	15.750	32.02	0.0	0.0	0.0	3.59	4.13	0.00	4.13	0.00	1.17	0.12	0.00	1.29	0.00	22.2	0.0	0.	0.00
494	15.500	32.02	0.0	0.0	0.0	3.58	4.11	0.00	4.11	0.00	1.17	0.12	0.00	1.29	0.00	22.2	0.0	0.	0.00

495	15.250	32.02	0.0	0.0	0.0	3.57	4.09	0.00	4.09	0.00	1.17	0.12	0.00	1.29	0.00	22.2	0.0	0.	0.00
496	15.000	32.02	0.0	0.0	0.0	3.56	4.08	0.00	4.08	0.00	1.17	0.12	0.00	1.29	0.00	22.2	0.0	0.	0.00
497	14.750	32.02	0.0	0.0	0.0	3.55	4.06	0.00	4.06	0.00	1.17	0.12	0.00	1.29	0.00	22.2	0.0	0.	0.00
498	14.500	32.02	0.0	0.0	0.0	3.54	4.05	0.00	4.05	0.00	1.17	0.12	0.00	1.29	0.00	22.1	0.0	0.	0.00
499	14.250	32.02	0.0	0.0	0.0	3.54	4.03	0.00	4.03	0.00	1.17	0.12	0.00	1.29	0.00	22.1	0.0	0.	0.00
500	14.000	32.03	0.0	0.0	0.0	3.53	4.02	0.00	4.02	0.00	1.17	0.12	0.00	1.29	0.00	22.1	0.0	0.	0.00
501	13.750	32.03	0.0	0.0	0.0	3.53	4.01	0.00	4.01	0.00	1.17	0.12	0.00	1.29	0.00	22.1	0.0	0.	0.00
502	13.500	32.03	0.0	0.0	0.0	3.52	4.00	0.00	4.00	0.00	1.17	0.12	0.00	1.29	0.00	22.1	0.0	0.	0.00
503	13.250	32.03	0.0	0.0	0.0	3.52	3.99	0.00	3.99	0.00	1.17	0.12	0.00	1.29	0.00	22.0	0.0	0.	0.00
504	13.000	32.03	0.0	0.0	0.0	3.51	3.98	0.00	3.98	0.00	1.17	0.12	0.00	1.29	0.00	22.0	0.0	0.	0.00
505	12.750	32.03	0.0	0.0	0.0	3.51	3.97	0.00	3.97	0.00	1.17	0.12	0.00	1.29	0.00	22.0	0.0	0.	0.00
506	12.500	32.03	0.0	0.0	0.0	3.51	3.96	0.00	3.96	0.00	1.17	0.12	0.00	1.28	0.00	22.0	0.0	0.	0.00
507	12.250	32.04	0.0	0.0	0.0	3.51	3.95	0.00	3.95	0.00	1.16	0.12	0.00	1.28	0.00	22.0	0.0	0.	0.00
508	12.000	32.04	0.0	0.0	0.0	3.50	3.95	0.00	3.95	0.00	1.16	0.12	0.00	1.28	0.00	21.9	0.0	0.	0.00
509	11.750	32.04	0.0	0.0	0.0	3.50	3.94	0.00	3.94	0.00	1.16	0.12	0.00	1.28	0.00	21.9	0.0	0.	0.00
510	11.500	32.04	0.0	0.0	0.0	3.50	3.93	0.00	3.93	0.00	1.16	0.12	0.00	1.28	0.00	21.9	0.0	0.	0.00
511	11.250	32.04	0.0	0.0	0.0	3.50	3.93	0.00	3.93	0.00	1.16	0.12	0.00	1.28	0.00	21.9	0.0	0.	0.00
512	11.000	32.04	0.0	0.0	0.0	3.50	3.92	0.00	3.92	0.00	1.16	0.12	0.00	1.28	0.00	21.9	0.0	0.	0.00
513	10.750	32.04	0.0	0.0	0.0	3.50	3.91	0.00	3.91	0.00	1.16	0.12	0.00	1.28	0.00	21.8	0.0	0.	0.00
514	10.500	32.04	0.0	0.0	0.0	3.50	3.91	0.00	3.91	0.00	1.16	0.12	0.00	1.28	0.00	21.8	0.0	0.	0.00
515	10.250	32.05	0.0	0.0	0.0	3.49	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	21.8	0.0	0.	0.00
516	10.000	32.05	0.0	0.0	0.0	3.49	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	21.8	0.0	0.	0.00
517	9.750	32.05	0.0	0.0	0.0	3.49	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	21.8	0.0	0.	0.00
518	9.500	32.05	0.0	0.0	0.0	3.49	3.89	0.00	3.89	0.00	1.16	0.12	0.00	1.28	0.00	21.8	0.0	0.	0.00
519	9.250	32.05	0.0	0.0	0.0	3.49	3.89	0.00	3.89	0.00	1.16	0.12	0.00	1.28	0.00	21.7	0.0	0.	0.00
520	9.000	32.05	0.0	0.0	0.0	3.49	3.88	0.00	3.88	0.00	1.16	0.12	0.00	1.28	0.00	21.7	0.0	0.	0.00
521	8.750	32.05	0.0	0.0	0.0	3.49	3.88	0.00	3.88	0.00	1.16	0.12	0.00	1.28	0.00	21.7	0.0	0.	0.00
522	8.500	32.06	0.0	0.0	0.0	3.49	3.88	0.00	3.88	0.00	1.16	0.12	0.00	1.28	0.00	21.7	0.0	0.	0.00
523	8.250	32.06	0.0	0.0	0.0	3.49	3.89	0.00	3.89	0.00	1.15	0.12	0.00	1.27	0.00	21.7	0.0	0.	0.00
524	8.000	32.06	0.0	0.0	0.0	3.48	3.93	0.00	3.93	0.00	1.15	0.12	0.00	1.27	0.00	21.6	0.0	0.	0.00
525	7.750	32.06	0.0	0.0	0.0	3.46	4.10	0.00	4.10	0.00	1.14	0.12	0.00	1.26	0.00	21.6	0.0	0.	0.00
526	7.500	32.06	0.0	0.0	0.0	3.44	4.08	0.00	4.08	0.00	1.14	0.12	0.00	1.26	0.00	21.6	0.0	0.	0.00
527	7.250	32.06	0.0	0.0	0.0	3.43	4.07	0.00	4.07	0.00	1.14	0.12	0.00	1.26	0.00	21.6	0.0	0.	0.00
528	7.000	32.06	0.0	0.0	0.0	3.42	4.05	0.00	4.05	0.00	1.14	0.12	0.00	1.26	0.00	21.6	0.0	0.	0.00
529	6.750	32.06	0.0	0.0	0.0	3.41	4.04	0.00	4.04	0.00	1.14	0.12	0.00	1.26	0.00	21.5	0.0	0.	0.00
530	6.500	32.07	0.0	0.0	0.0	3.40	4.03	0.00	4.03	0.00	1.14	0.12	0.00	1.26	0.00	21.5	0.0	0.	0.00
531	6.250	32.07	0.0	0.0	0.0	3.39	4.02	0.00	4.02	0.00	1.14	0.12	0.00	1.26	0.00	21.5	0.0	0.	0.00
532	6.000	32.07	0.0	0.0	0.0	3.38	4.00	0.00	4.00	0.00	1.14	0.12	0.00	1.26	0.00	21.5	0.0	0.	0.00
533	5.750	32.07	0.0	0.0	0.0	3.38	3.99	0.00	3.99	0.00	1.14	0.12	0.00	1.26	0.00	21.5	0.0	0.	0.00
534	5.500	32.07	0.0	0.0	0.0	3.37	3.98	0.00	3.98	0.00	1.14	0.12	0.00	1.26	0.00	21.4	0.0	0.	0.00
535	5.250	32.07	0.0	0.0	0.0	3.36	3.97	0.00	3.97	0.00	1.14	0.12	0.00	1.26	0.00	21.4	0.0	0.	0.00
536	5.000	32.07	0.0	0.0	0.0	3.36	3.97	0.00	3.97	0.00	1.14	0.12	0.00	1.26	0.00	21.4	0.0	0.	0.00
537	4.750	32.07	0.0	0.0	0.0	3.35	3.96	0.00	3.96	0.00	1.14	0.12	0.00	1.26	0.00	21.4	0.0	0.	0.00
538	4.500	32.08	0.0	0.0	0.0	3.34	3.95	0.00	3.95	0.00	1.14	0.12	0.00	1.25	0.00	21.4	0.0	0.	0.00
539	4.250	32.08	0.0	0.0	0.0	3.34	3.94	0.00	3.94	0.00	1.14	0.12	0.00	1.25	0.00	21.3	0.0	0.	0.00
540	4.000	32.08	0.0	0.0	0.0	3.33	3.94	0.00	3.94	0.00	1.14	0.12	0.00	1.25	0.00	21.3	0.0	0.	0.00
541	3.750	32.08	0.0	0.0	0.0	3.33	3.93	0.00	3.93	0.00	1.14	0.12	0.00	1.25	0.00	21.3	0.0	0.	0.00
542	3.500	32.08	0.0	0.0	0.0	3.32	3.92	0.00	3.92	0.00	1.14	0.12	0.00	1.25	0.00	21.3	0.0	0.	0.00
543	3.250	32.08	0.0	0.0	0.0	3.32	3.92	0.00	3.92	0.00	1.13	0.12	0.00	1.25	0.00	21.3	0.0	0.	0.00
544	3.000	32.08	0.0	0.0	0.0	3.32	3.91	0.00	3.91	0.00	1.13	0.12	0.00	1.25	0.00	21.2	0.0	0.	0.00

545	2.750	32.09	0.0	0.0	0.0	3.31	3.91	0.00	3.91	0.00	1.13	0.12	0.00	1.25	0.00	21.2	0.0	0.	0.00
546	2.500	32.09	0.0	0.0	0.0	3.31	3.90	0.00	3.90	0.00	1.13	0.12	0.00	1.25	0.00	21.2	0.0	0.	0.00
547	2.250	32.09	0.0	0.0	0.0	3.31	3.90	0.00	3.90	0.00	1.13	0.12	0.00	1.25	0.00	21.2	0.0	0.	0.00
548	2.000	32.09	0.0	0.0	0.0	3.30	3.89	0.00	3.89	0.00	1.13	0.12	0.00	1.25	0.00	21.2	0.0	0.	0.00
549	1.750	32.09	0.0	0.0	0.0	3.30	3.89	0.00	3.89	0.00	1.13	0.12	0.00	1.25	0.00	21.1	0.0	0.	0.00
550	1.500	32.09	0.0	0.0	0.0	3.30	3.89	0.00	3.89	0.00	1.13	0.12	0.00	1.25	0.00	21.1	0.0	0.	0.00
551	1.250	32.09	0.0	0.0	0.0	3.29	3.88	0.00	3.88	0.00	1.13	0.12	0.00	1.25	0.00	21.1	0.0	0.	0.00
552	1.000	32.09	0.0	0.0	0.0	3.29	3.88	0.00	3.88	0.00	1.13	0.12	0.00	1.25	0.00	21.1	0.0	0.	0.00
553	0.750	32.10	0.0	0.0	0.0	3.29	3.88	0.00	3.88	0.00	1.13	0.12	0.00	1.24	0.00	21.1	0.0	0.	0.00
554	0.500	32.10	0.0	0.0	0.0	3.31	3.87	0.00	3.87	0.00	1.11	0.12	0.00	1.23	0.00	21.0	0.0	0.	0.00
555	0.250	32.10	0.0	0.0	0.0	3.39	3.86	0.00	3.86	0.00	1.03	0.12	0.00	1.15	0.00	21.0	0.0	0.	0.00
556	0.000	32.10	0.0	0.0	0.0	3.77	3.84	0.00	3.84	0.00	0.70	0.13	0.00	0.83	0.00	21.0	0.0	0.	0.00

SPECIAL REPORT: Bayou Black

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 #/100mL	MACRO *	COLI	NCM
225	44.750	32.10	0.0	0.0	0.0	10.74	0.42	0.00	0.42	0.00	0.16	0.01	0.00	0.17	0.00	25.0	0.0	0.	0.00		
226	44.500	32.09	0.0	0.0	0.0	10.80	0.38	0.00	0.38	0.00	0.15	0.01	0.00	0.16	0.00	25.0	0.0	0.	0.00		
227	44.250	32.09	0.0	0.0	0.0	10.84	0.37	0.00	0.37	0.00	0.15	0.01	0.00	0.16	0.00	25.0	0.0	0.	0.00		
228	44.000	32.08	0.0	0.0	0.0	10.86	0.36	0.00	0.36	0.00	0.14	0.01	0.00	0.15	0.00	25.0	0.0	0.	0.00		
229	43.750	32.08	0.0	0.0	0.0	10.87	0.36	0.00	0.36	0.00	0.14	0.01	0.00	0.15	0.00	25.0	0.0	0.	0.00		
230	43.500	32.08	0.0	0.0	0.0	10.88	0.36	0.00	0.36	0.00	0.14	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
231	43.250	32.07	0.0	0.0	0.0	10.88	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
232	43.000	32.07	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
233	42.750	32.06	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
234	42.500	32.06	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
235	42.250	32.06	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
236	42.000	32.05	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
237	41.750	32.05	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
238	41.500	32.04	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
239	41.250	32.04	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
240	41.000	32.04	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
241	40.750	32.03	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
242	40.500	32.03	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
243	40.250	32.02	0.0	0.0	0.0	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
244	40.000	32.02	0.0	0.0	0.0	10.88	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
245	39.750	32.02	0.0	0.0	0.0	10.87	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
246	39.500	32.01	0.0	0.0	0.0	10.85	0.37	0.00	0.37	0.00	0.14	0.01	0.00	0.14	0.00	25.0	0.0	0.	0.00		
247	39.250	32.01	0.0	0.0	0.0	10.81	0.38	0.00	0.38	0.00	0.14	0.01	0.00	0.15	0.00	25.0	0.0	0.	0.00		
248	39.000	32.00	0.0	0.0	0.0	10.73	0.41	0.00	0.41	0.00	0.14	0.01	0.00	0.15	0.00	25.0	0.0	0.	0.00		
249	38.750	32.00	0.0	0.0	0.0	10.57	0.48	0.00	0.48	0.00	0.15	0.01	0.00	0.16	0.00	25.0	0.0	0.	0.00		
250	38.500	32.00	0.0	0.0	0.0	10.00	0.87	0.00	0.87	0.00	0.17	0.01	0.00	0.18	0.00	25.7	0.0	0.	0.00		
251	38.250	32.00	0.0	0.0	0.0	8.45	2.18	0.00	2.18	0.00	0.25	0.01	0.00	0.26	0.00	26.4	0.0	0.	0.00		
252	38.000	32.00	0.0	0.0	0.0	7.44	3.18	0.00	3.18	0.00	0.32	0.02	0.00	0.33	0.00	27.1	0.0	0.	0.00		
253	37.750	32.00	0.0	0.0	0.0	6.77	3.96	0.00	3.96	0.00	0.38	0.02	0.00	0.40	0.00	27.9	0.0	0.	0.00		
254	37.500	32.00	0.0	0.0	0.0	6.31	4.56	0.00	4.56	0.00	0.44	0.02	0.00	0.47	0.00	28.6	0.0	0.	0.00		
255	37.250	32.00	0.0	0.0	0.0	6.00	5.04	0.00	5.04	0.00	0.50	0.03	0.00	0.53	0.00	29.3	0.0	0.	0.00		
256	37.000	32.00	0.0	0.0	0.0	5.77	5.41	0.00	5.41	0.00	0.56	0.03	0.00	0.58	0.00	30.0	0.0	0.	0.00		
257	36.750	32.00	0.0	0.0	0.0	5.62	5.70	0.00	5.70	0.00	0.61	0.03	0.00	0.64	0.00	30.7	0.0	0.	0.00		
258	36.500	32.00	0.0	0.0	0.0	5.51	5.94	0.00	5.94	0.00	0.65	0.03	0.00	0.69	0.00	31.4	0.0	0.	0.00		

259	36.250	32.00	0.0	0.0	0.0	5.43	6.12	0.00	6.12	0.00	0.70	0.04	0.00	0.74	0.00	32.1	0.0	0.	0.00
260	36.000	32.00	0.0	0.0	0.0	5.36	6.36	0.00	6.36	0.00	0.74	0.04	0.00	0.78	0.00	32.9	0.0	0.	0.00
261	35.750	32.00	0.0	0.0	0.0	5.32	6.46	0.00	6.46	0.00	0.78	0.04	0.00	0.82	0.00	33.6	0.0	0.	0.00
262	35.500	32.00	0.0	0.0	0.0	5.30	6.55	0.00	6.55	0.00	0.82	0.05	0.00	0.86	0.00	34.3	0.0	0.	0.00
263	35.250	32.00	0.0	0.0	0.0	5.29	6.61	0.00	6.61	0.00	0.85	0.05	0.00	0.90	0.00	35.0	0.0	0.	0.00
264	35.000	32.00	0.0	0.0	0.0	5.29	6.67	0.00	6.67	0.00	0.89	0.05	0.00	0.94	0.00	35.7	0.0	0.	0.00
265	34.750	32.00	0.0	0.0	0.0	5.30	6.72	0.00	6.72	0.00	0.92	0.05	0.00	0.97	0.00	36.4	0.0	0.	0.00
266	34.500	32.00	0.0	0.0	0.0	5.32	6.75	0.00	6.75	0.00	0.95	0.05	0.00	1.00	0.00	37.1	0.0	0.	0.00
267	34.250	32.00	0.0	0.0	0.0	5.33	6.79	0.00	6.79	0.00	0.97	0.06	0.00	1.03	0.00	37.9	0.0	0.	0.00
268	34.000	32.00	0.0	0.0	0.0	5.35	6.82	0.00	6.82	0.00	1.00	0.06	0.00	1.06	0.00	38.6	0.0	0.	0.00
269	33.750	32.00	0.0	0.0	0.0	5.38	6.84	0.00	6.84	0.00	1.03	0.06	0.00	1.09	0.00	39.3	0.0	0.	0.00
270	33.500	32.00	0.0	0.0	0.0	5.40	6.86	0.00	6.86	0.00	1.05	0.06	0.00	1.11	0.00	40.0	0.0	0.	0.00
271	33.250	32.00	0.0	0.0	0.0	5.43	6.87	0.00	6.87	0.00	1.07	0.06	0.00	1.14	0.00	40.7	0.0	0.	0.00
272	33.000	32.00	0.0	0.0	0.0	5.46	6.88	0.00	6.88	0.00	1.10	0.06	0.00	1.16	0.00	41.4	0.0	0.	0.00
273	32.750	32.00	0.0	0.0	0.0	5.49	6.89	0.00	6.89	0.00	1.12	0.06	0.00	1.18	0.00	42.1	0.0	0.	0.00
274	32.500	32.00	0.0	0.0	0.0	5.53	6.90	0.00	6.90	0.00	1.14	0.07	0.00	1.20	0.00	42.9	0.0	0.	0.00
275	32.250	32.00	0.0	0.0	0.0	5.56	6.91	0.00	6.91	0.00	1.16	0.07	0.00	1.22	0.00	43.6	0.0	0.	0.00
276	32.000	32.00	0.0	0.0	0.0	5.59	6.91	0.00	6.91	0.00	1.17	0.07	0.00	1.24	0.00	44.3	0.0	0.	0.00
277	31.750	32.00	0.0	0.0	0.0	5.63	6.92	0.00	6.92	0.00	1.19	0.07	0.00	1.26	0.00	45.0	0.0	0.	0.00
278	31.500	32.00	0.0	0.0	0.0	5.62	7.26	0.00	7.26	0.00	1.21	0.08	0.00	1.29	0.00	45.7	0.0	0.	0.00
279	31.250	32.00	0.0	0.0	0.0	5.63	7.22	0.00	7.22	0.00	1.22	0.08	0.00	1.30	0.00	46.4	0.0	0.	0.00
280	31.000	32.00	0.0	0.0	0.0	5.66	7.18	0.00	7.18	0.00	1.24	0.08	0.00	1.32	0.00	47.1	0.0	0.	0.00
281	30.750	32.00	0.0	0.0	0.0	5.69	7.15	0.00	7.15	0.00	1.25	0.08	0.00	1.33	0.00	47.9	0.0	0.	0.00
282	30.500	32.00	0.0	0.0	0.0	5.73	7.13	0.00	7.13	0.00	1.27	0.08	0.00	1.35	0.00	48.6	0.0	0.	0.00
283	30.250	32.00	0.0	0.0	0.0	5.77	7.10	0.00	7.10	0.00	1.28	0.08	0.00	1.36	0.00	49.3	0.0	0.	0.00
284	30.000	32.00	0.0	0.0	0.0	5.81	7.08	0.00	7.08	0.00	1.29	0.08	0.00	1.37	0.00	50.0	0.0	0.	0.00
285	29.750	32.00	0.0	0.0	0.0	5.41	6.58	0.00	6.58	0.00	1.29	0.08	0.00	1.36	0.00	49.8	0.0	0.	0.00
286	29.500	32.00	0.0	0.0	0.0	5.16	6.14	0.00	6.14	0.00	1.28	0.08	0.00	1.36	0.00	49.6	0.0	0.	0.00
287	29.250	32.00	0.0	0.0	0.0	5.02	5.76	0.00	5.76	0.00	1.27	0.08	0.00	1.35	0.00	49.3	0.0	0.	0.00
288	29.000	32.00	0.0	0.0	0.0	4.95	5.44	0.00	5.44	0.00	1.26	0.08	0.00	1.34	0.00	49.1	0.0	0.	0.00
289	28.750	32.00	0.0	0.0	0.0	4.93	5.16	0.00	5.16	0.00	1.25	0.08	0.00	1.33	0.00	48.9	0.0	0.	0.00
290	28.500	32.00	0.0	0.0	0.0	4.93	4.92	0.00	4.92	0.00	1.25	0.08	0.00	1.32	0.00	48.7	0.0	0.	0.00
291	28.250	31.99	0.0	0.0	0.0	4.95	4.71	0.00	4.71	0.00	1.24	0.08	0.00	1.32	0.00	48.5	0.0	0.	0.00
292	28.000	31.99	0.0	0.0	0.0	4.94	4.89	0.00	4.89	0.00	1.23	0.09	0.00	1.32	0.00	48.3	0.0	0.	0.00
293	27.750	31.99	0.0	0.0	0.0	4.95	4.69	0.00	4.69	0.00	1.23	0.09	0.00	1.31	0.00	48.0	0.0	0.	0.00
294	27.500	31.99	0.0	0.0	0.0	4.97	4.52	0.00	4.52	0.00	1.22	0.08	0.00	1.30	0.00	47.8	0.0	0.	0.00
295	27.250	31.99	0.0	0.0	0.0	5.00	4.36	0.00	4.36	0.00	1.21	0.08	0.00	1.30	0.00	47.6	0.0	0.	0.00
296	27.000	31.99	0.0	0.0	0.0	5.03	4.23	0.00	4.23	0.00	1.21	0.08	0.00	1.29	0.00	47.4	0.0	0.	0.00
297	26.750	31.99	0.0	0.0	0.0	5.06	4.12	0.00	4.12	0.00	1.20	0.08	0.00	1.28	0.00	47.2	0.0	0.	0.00
298	26.500	31.99	0.0	0.0	0.0	5.09	4.01	0.00	4.01	0.00	1.20	0.08	0.00	1.28	0.00	47.0	0.0	0.	0.00
299	26.250	31.99	0.0	0.0	0.0	5.12	3.93	0.00	3.93	0.00	1.19	0.08	0.00	1.27	0.00	46.8	0.0	0.	0.00
300	26.000	31.99	0.0	0.0	0.0	5.15	3.85	0.00	3.85	0.00	1.18	0.08	0.00	1.26	0.00	46.5	0.0	0.	0.00
301	25.750	31.99	0.0	0.0	0.0	5.17	3.78	0.00	3.78	0.00	1.18	0.08	0.00	1.26	0.00	46.3	0.0	0.	0.00
302	25.500	31.99	0.0	0.0	0.0	5.19	3.73	0.00	3.73	0.00	1.17	0.08	0.00	1.25	0.00	46.1	0.0	0.	0.00
303	25.250	31.98	0.0	0.0	0.0	5.21	3.68	0.00	3.68	0.00	1.17	0.08	0.00	1.24	0.00	45.9	0.0	0.	0.00
304	25.000	31.98	0.0	0.0	0.0	5.22	3.63	0.00	3.63	0.00	1.16	0.07	0.00	1.24	0.00	45.7	0.0	0.	0.00
305	24.750	31.98	0.0	0.0	0.0	5.23	3.59	0.00	3.59	0.00	1.16	0.07	0.00	1.23	0.00	45.5	0.0	0.	0.00
306	24.500	31.98	0.0	0.0	0.0	5.24	3.56	0.00	3.56	0.00	1.15	0.07	0.00	1.23	0.00	45.2	0.0	0.	0.00
307	24.250	31.98	0.0	0.0	0.0	5.25	3.53	0.00	3.53	0.00	1.15	0.07	0.00	1.22	0.00	45.0	0.0	0.	0.00
308	24.000	31.98	0.0	0.0	0.0	5.25	3.50	0.00	3.50	0.00	1.14	0.07	0.00	1.22	0.00	44.8	0.0	0.	0.00

309	23.750	31.98	0.0	0.0	0.0	5.26	3.48	0.00	3.48	0.00	1.14	0.07	0.00	1.21	0.00	44.6	0.0	0.	0.00
310	23.500	31.98	0.0	0.0	0.0	5.26	3.46	0.00	3.46	0.00	1.13	0.07	0.00	1.21	0.00	44.4	0.0	0.	0.00
311	23.250	31.98	0.0	0.0	0.0	5.26	3.44	0.00	3.44	0.00	1.13	0.07	0.00	1.20	0.00	44.2	0.0	0.	0.00
312	23.000	31.98	0.0	0.0	0.0	5.24	3.59	0.00	3.59	0.00	1.13	0.07	0.00	1.20	0.00	43.9	0.0	0.	0.00
313	22.750	31.98	0.0	0.0	0.0	5.22	3.56	0.00	3.56	0.00	1.12	0.07	0.00	1.20	0.00	43.7	0.0	0.	0.00
314	22.500	31.98	0.0	0.0	0.0	5.21	3.53	0.00	3.53	0.00	1.12	0.07	0.00	1.19	0.00	43.5	0.0	0.	0.00
315	22.250	31.97	0.0	0.0	0.0	5.21	3.50	0.00	3.50	0.00	1.11	0.07	0.00	1.19	0.00	43.3	0.0	0.	0.00
316	22.000	31.97	0.0	0.0	0.0	5.20	3.48	0.00	3.48	0.00	1.11	0.07	0.00	1.18	0.00	43.1	0.0	0.	0.00
317	21.750	31.97	0.0	0.0	0.0	5.19	3.46	0.00	3.46	0.00	1.10	0.07	0.00	1.18	0.00	42.8	0.0	0.	0.00
318	21.500	31.97	0.0	0.0	0.0	5.19	3.44	0.00	3.44	0.00	1.10	0.07	0.00	1.17	0.00	42.6	0.0	0.	0.00
319	21.250	31.97	0.0	0.0	0.0	5.18	3.43	0.00	3.43	0.00	1.10	0.07	0.00	1.17	0.00	42.4	0.0	0.	0.00
320	21.000	31.97	0.0	0.0	0.0	5.18	3.41	0.00	3.41	0.00	1.09	0.07	0.00	1.16	0.00	42.2	0.0	0.	0.00
321	20.750	31.97	0.0	0.0	0.0	5.17	3.40	0.00	3.40	0.00	1.09	0.07	0.00	1.16	0.00	42.0	0.0	0.	0.00
322	20.500	31.97	0.0	0.0	0.0	5.16	3.39	0.00	3.39	0.00	1.09	0.07	0.00	1.16	0.00	41.8	0.0	0.	0.00
323	20.250	31.97	0.0	0.0	0.0	5.16	3.38	0.00	3.38	0.00	1.08	0.07	0.00	1.15	0.00	41.5	0.0	0.	0.00
324	20.000	31.97	0.0	0.0	0.0	5.15	3.37	0.00	3.37	0.00	1.08	0.07	0.00	1.15	0.00	41.3	0.0	0.	0.00
325	19.750	31.97	0.0	0.0	0.0	5.14	3.37	0.00	3.37	0.00	1.08	0.07	0.00	1.14	0.00	41.1	0.0	0.	0.00
326	19.500	31.97	0.0	0.0	0.0	5.13	3.36	0.00	3.36	0.00	1.07	0.07	0.00	1.14	0.00	40.9	0.0	0.	0.00
327	19.250	31.96	0.0	0.0	0.0	5.13	3.35	0.00	3.35	0.00	1.07	0.07	0.00	1.14	0.00	40.7	0.0	0.	0.00
328	19.000	31.96	0.0	0.0	0.0	5.12	3.35	0.00	3.35	0.00	1.07	0.07	0.00	1.13	0.00	40.5	0.0	0.	0.00
329	18.750	31.96	0.0	0.0	0.0	5.11	3.34	0.00	3.34	0.00	1.06	0.07	0.00	1.13	0.00	40.2	0.0	0.	0.00
330	18.500	31.96	0.0	0.0	0.0	5.10	3.34	0.00	3.34	0.00	1.06	0.07	0.00	1.13	0.00	40.0	0.0	0.	0.00
331	18.250	31.96	0.0	0.0	0.0	5.08	3.40	0.00	3.40	0.00	1.06	0.07	0.00	1.13	0.00	39.8	0.0	0.	0.00
332	18.000	31.96	0.0	0.0	0.0	5.07	3.39	0.00	3.39	0.00	1.06	0.07	0.00	1.12	0.00	39.6	0.0	0.	0.00
333	17.750	31.96	0.0	0.0	0.0	5.06	3.38	0.00	3.38	0.00	1.05	0.07	0.00	1.12	0.00	39.4	0.0	0.	0.00
334	17.500	31.96	0.0	0.0	0.0	5.05	3.37	0.00	3.37	0.00	1.05	0.07	0.00	1.12	0.00	39.2	0.0	0.	0.00
335	17.250	31.96	0.0	0.0	0.0	5.04	3.36	0.00	3.36	0.00	1.05	0.07	0.00	1.11	0.00	39.0	0.0	0.	0.00
336	17.000	31.96	0.0	0.0	0.0	5.03	3.36	0.00	3.36	0.00	1.04	0.07	0.00	1.11	0.00	38.7	0.0	0.	0.00
337	16.750	31.96	0.0	0.0	0.0	5.02	3.35	0.00	3.35	0.00	1.04	0.07	0.00	1.11	0.00	38.5	0.0	0.	0.00
338	16.500	31.95	0.0	0.0	0.0	5.00	3.35	0.00	3.35	0.00	1.04	0.07	0.00	1.11	0.00	38.3	0.0	0.	0.00
339	16.250	31.95	0.0	0.0	0.0	4.99	3.43	0.00	3.43	0.00	1.04	0.07	0.00	1.10	0.00	38.1	0.0	0.	0.00
340	16.000	31.95	0.0	0.0	0.0	4.97	3.42	0.00	3.42	0.00	1.03	0.07	0.00	1.10	0.00	37.9	0.0	0.	0.00
341	15.750	31.95	0.0	0.0	0.0	4.96	3.41	0.00	3.41	0.00	1.03	0.07	0.00	1.10	0.00	37.7	0.0	0.	0.00
342	15.500	31.95	0.0	0.0	0.0	4.94	3.40	0.00	3.40	0.00	1.03	0.07	0.00	1.10	0.00	37.4	0.0	0.	0.00
343	15.250	31.95	0.0	0.0	0.0	4.93	3.39	0.00	3.39	0.00	1.03	0.07	0.00	1.09	0.00	37.2	0.0	0.	0.00
344	15.000	31.95	0.0	0.0	0.0	4.92	3.38	0.00	3.38	0.00	1.03	0.07	0.00	1.09	0.00	37.0	0.0	0.	0.00
345	14.750	31.95	0.0	0.0	0.0	4.91	3.37	0.00	3.37	0.00	1.02	0.07	0.00	1.09	0.00	36.8	0.0	0.	0.00
346	14.500	31.95	0.0	0.0	0.0	4.90	3.37	0.00	3.37	0.00	1.02	0.07	0.00	1.09	0.00	36.6	0.0	0.	0.00
347	14.250	31.95	0.0	0.0	0.0	4.89	3.36	0.00	3.36	0.00	1.02	0.07	0.00	1.08	0.00	36.3	0.0	0.	0.00
348	14.000	31.95	0.0	0.0	0.0	4.88	3.36	0.00	3.36	0.00	1.02	0.07	0.00	1.08	0.00	36.1	0.0	0.	0.00
349	13.750	31.95	0.0	0.0	0.0	4.87	3.35	0.00	3.35	0.00	1.01	0.07	0.00	1.08	0.00	35.9	0.0	0.	0.00
350	13.500	31.94	0.0	0.0	0.0	4.86	3.35	0.00	3.35	0.00	1.01	0.07	0.00	1.08	0.00	35.7	0.0	0.	0.00
351	13.250	31.94	0.0	0.0	0.0	4.85	3.34	0.00	3.34	0.00	1.01	0.07	0.00	1.08	0.00	35.5	0.0	0.	0.00
352	13.000	31.94	0.0	0.0	0.0	4.33	5.50	0.00	5.50	0.00	1.03	0.84	0.00	1.86	0.00	35.3	0.0	0.	0.00
353	12.750	31.94	0.0	0.0	0.0	3.98	5.31	0.00	5.31	0.00	1.02	0.75	0.00	1.77	0.00	35.0	0.0	0.	0.00
354	12.500	31.94	0.0	0.0	0.0	3.74	5.13	0.00	5.13	0.00	1.02	0.67	0.00	1.69	0.00	34.8	0.0	0.	0.00
355	12.250	31.94	0.0	0.0	0.0	3.59	4.96	0.00	4.96	0.00	1.02	0.60	0.00	1.62	0.00	34.6	0.0	0.	0.00
356	12.000	31.94	0.0	0.0	0.0	3.51	4.81	0.00	4.81	0.00	1.02	0.55	0.00	1.56	0.00	34.4	0.0	0.	0.00
357	11.750	31.94	0.0	0.0	0.0	3.47	4.68	0.00	4.68	0.00	1.02	0.49	0.00	1.51	0.00	34.2	0.0	0.	0.00
358	11.500	31.94	0.0	0.0	0.0	3.47	4.56	0.00	4.56	0.00	1.01	0.45	0.00	1.46	0.00	34.0	0.0	0.	0.00

359	11.250	31.94	0.0	0.0	0.0	3.49	4.45	0.00	4.45	0.00	1.01	0.41	0.00	1.42	0.00	33.8	0.0	0.	0.00
360	11.000	31.94	0.0	0.0	0.0	3.52	4.35	0.00	4.35	0.00	1.01	0.37	0.00	1.38	0.00	33.5	0.0	0.	0.00
361	10.750	31.94	0.0	0.0	0.0	3.57	4.26	0.00	4.26	0.00	1.01	0.34	0.00	1.34	0.00	33.3	0.0	0.	0.00
362	10.500	31.93	0.0	0.0	0.0	3.62	4.17	0.00	4.17	0.00	1.01	0.31	0.00	1.31	0.00	33.1	0.0	0.	0.00
363	10.250	31.93	0.0	0.0	0.0	3.68	4.10	0.00	4.10	0.00	1.00	0.28	0.00	1.28	0.00	32.9	0.0	0.	0.00
364	10.000	31.93	0.0	0.0	0.0	3.73	4.03	0.00	4.03	0.00	1.00	0.26	0.00	1.26	0.00	32.7	0.0	0.	0.00
365	9.750	31.93	0.0	0.0	0.0	3.79	3.97	0.00	3.97	0.00	1.00	0.24	0.00	1.24	0.00	32.5	0.0	0.	0.00
366	9.500	31.93	0.0	0.0	0.0	3.84	3.91	0.00	3.91	0.00	1.00	0.22	0.00	1.22	0.00	32.2	0.0	0.	0.00
367	9.250	31.93	0.0	0.0	0.0	3.90	3.86	0.00	3.86	0.00	1.00	0.20	0.00	1.20	0.00	32.0	0.0	0.	0.00
368	9.000	31.93	0.0	0.0	0.0	3.94	3.81	0.00	3.81	0.00	1.00	0.19	0.00	1.18	0.00	31.8	0.0	0.	0.00
369	8.750	31.93	0.0	0.0	0.0	3.99	3.86	0.00	3.86	0.00	1.00	0.18	0.00	1.18	0.00	31.6	0.0	0.	0.00
370	8.500	31.93	0.0	0.0	0.0	4.02	3.81	0.00	3.81	0.00	0.99	0.17	0.00	1.16	0.00	31.4	0.0	0.	0.00
371	8.250	31.93	0.0	0.0	0.0	4.05	3.77	0.00	3.77	0.00	0.99	0.16	0.00	1.15	0.00	31.1	0.0	0.	0.00
372	8.000	31.93	0.0	0.0	0.0	4.08	3.74	0.00	3.74	0.00	0.99	0.15	0.00	1.14	0.00	30.9	0.0	0.	0.00
373	7.750	31.93	0.0	0.0	0.0	7.50	5.72	0.00	5.72	0.00	1.23	0.12	0.00	1.35	0.00	30.7	0.0	0.	0.00
374	7.500	31.92	0.0	0.0	0.0	7.17	5.64	0.00	5.64	0.00	1.23	0.11	0.00	1.35	0.00	30.5	0.0	0.	0.00
375	7.250	31.92	0.0	0.0	0.0	6.86	5.55	0.00	5.55	0.00	1.23	0.11	0.00	1.34	0.00	30.3	0.0	0.	0.00
376	7.000	31.92	0.0	0.0	0.0	6.59	5.47	0.00	5.47	0.00	1.23	0.11	0.00	1.34	0.00	30.1	0.0	0.	0.00
377	6.750	31.92	0.0	0.0	0.0	6.34	5.40	0.00	5.40	0.00	1.23	0.11	0.00	1.34	0.00	29.9	0.0	0.	0.00
378	6.500	31.92	0.0	0.0	0.0	6.12	5.33	0.00	5.33	0.00	1.23	0.11	0.00	1.33	0.00	29.6	0.0	0.	0.00
379	6.250	31.92	0.0	0.0	0.0	5.91	5.26	0.00	5.26	0.00	1.22	0.10	0.00	1.33	0.00	29.4	0.0	0.	0.00
380	6.000	31.92	0.0	0.0	0.0	5.72	5.19	0.00	5.19	0.00	1.22	0.10	0.00	1.33	0.00	29.2	0.0	0.	0.00
381	5.750	31.92	0.0	0.0	0.0	5.55	5.12	0.00	5.12	0.00	1.22	0.10	0.00	1.32	0.00	29.0	0.0	0.	0.00
382	5.500	31.92	0.0	0.0	0.0	5.40	5.06	0.00	5.06	0.00	1.22	0.10	0.00	1.32	0.00	28.8	0.0	0.	0.00
383	5.250	31.92	0.0	0.0	0.0	5.26	5.00	0.00	5.00	0.00	1.22	0.10	0.00	1.32	0.00	28.5	0.0	0.	0.00
384	5.000	31.92	0.0	0.0	0.0	5.13	4.94	0.00	4.94	0.00	1.22	0.10	0.00	1.31	0.00	28.3	0.0	0.	0.00
385	4.750	31.92	0.0	0.0	0.0	5.02	4.88	0.00	4.88	0.00	1.21	0.10	0.00	1.31	0.00	28.1	0.0	0.	0.00
386	4.500	31.91	0.0	0.0	0.0	4.91	4.83	0.00	4.83	0.00	1.21	0.10	0.00	1.31	0.00	27.9	0.0	0.	0.00
387	4.250	31.91	0.0	0.0	0.0	4.81	4.78	0.00	4.78	0.00	1.21	0.10	0.00	1.31	0.00	27.7	0.0	0.	0.00
388	4.000	31.91	0.0	0.0	0.0	4.73	4.73	0.00	4.73	0.00	1.21	0.09	0.00	1.30	0.00	27.5	0.0	0.	0.00
389	3.750	31.91	0.0	0.0	0.0	4.65	4.68	0.00	4.68	0.00	1.21	0.09	0.00	1.30	0.00	27.2	0.0	0.	0.00
390	3.500	31.91	0.0	0.0	0.0	4.58	4.63	0.00	4.63	0.00	1.21	0.09	0.00	1.30	0.00	27.0	0.0	0.	0.00
391	3.250	31.91	0.0	0.0	0.0	4.51	4.59	0.00	4.59	0.00	1.20	0.09	0.00	1.30	0.00	26.8	0.0	0.	0.00
392	3.000	31.91	0.0	0.0	0.0	4.45	4.54	0.00	4.54	0.00	1.20	0.09	0.00	1.29	0.00	26.6	0.0	0.	0.00
393	2.750	31.91	0.0	0.0	0.0	4.40	4.50	0.00	4.50	0.00	1.20	0.09	0.00	1.29	0.00	26.4	0.0	0.	0.00
394	2.500	31.91	0.0	0.0	0.0	4.35	4.46	0.00	4.46	0.00	1.20	0.09	0.00	1.29	0.00	26.2	0.0	0.	0.00
395	2.250	31.91	0.0	0.0	0.0	4.30	4.42	0.00	4.42	0.00	1.20	0.09	0.00	1.29	0.00	25.9	0.0	0.	0.00
396	2.000	31.91	0.0	0.0	0.0	4.26	4.38	0.00	4.38	0.00	1.20	0.09	0.00	1.29	0.00	25.7	0.0	0.	0.00
397	1.750	31.91	0.0	0.0	0.0	4.23	4.35	0.00	4.35	0.00	1.20	0.09	0.00	1.28	0.00	25.5	0.0	0.	0.00
398	1.500	31.90	0.0	0.0	0.0	4.19	4.31	0.00	4.31	0.00	1.19	0.09	0.00	1.28	0.00	25.3	0.0	0.	0.00
399	1.250	31.90	0.0	0.0	0.0	4.16	4.28	0.00	4.28	0.00	1.19	0.09	0.00	1.28	0.00	25.1	0.0	0.	0.00
400	1.000	31.90	0.0	0.0	0.0	4.13	4.25	0.00	4.25	0.00	1.19	0.09	0.00	1.28	0.00	24.9	0.0	0.	0.00
401	0.750	31.90	0.0	0.0	0.0	3.04	7.21	0.00	7.21	0.00	1.45	0.12	0.00	1.56	0.00	24.6	0.0	0.	0.00
402	0.500	31.90	0.0	0.0	0.0	3.03	7.17	0.00	7.17	0.00	1.45	0.12	0.00	1.56	0.00	24.4	0.0	0.	0.00
403	0.250	31.90	0.0	0.0	0.0	3.01	7.12	0.00	7.12	0.00	1.44	0.12	0.00	1.56	0.00	24.2	0.0	0.	0.00
404	0.000	31.90	0.0	0.0	0.0	3.00	7.06	0.00	7.06	0.00	1.44	0.12	0.00	1.56	0.00	24.0	0.0	0.	0.00

SPECIAL REPORT: ICWW

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#1 SETT	BOD#2 DECAY	ABOD#2 SOD	FULL SOD	CORR DECAY	ORG-N SETT	ORG-N DECAY	NH3 SRCE	NH3 RATE	NH3 SRCE	DENIT PROD	PO4 PROD	ALG DECAY	MAC DECAY	COLI SETT	NCM	NCM

	km	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	93.750	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
2	93.500	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
3	93.250	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
4	93.000	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
5	92.750	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
6	92.500	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
7	92.250	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
8	92.000	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
9	91.750	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
10	91.500	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
11	91.250	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
12	91.000	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
13	90.750	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
14	90.500	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
15	90.250	7.36	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
16	90.000	7.36	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
17	89.750	7.36	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
18	89.500	7.36	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
19	89.250	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
20	89.000	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
21	88.750	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
22	88.500	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
23	88.250	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
24	88.000	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
25	87.750	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
26	87.500	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
27	87.250	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
28	87.000	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
29	86.750	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
30	86.500	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
31	86.250	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
32	86.000	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
33	85.750	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
34	85.500	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
35	85.250	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
36	85.000	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
37	84.750	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
38	84.500	7.30	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
39	84.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
40	84.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
41	83.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
42	83.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
43	83.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
44	83.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
45	82.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
46	82.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
47	82.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
48	82.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
49	81.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

50	81.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
51	81.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
52	81.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
53	80.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
54	80.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
55	80.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
56	80.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
57	79.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
58	79.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
59	79.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
60	79.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
61	78.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
62	78.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
63	78.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
64	78.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
65	77.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
66	77.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
67	77.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
68	77.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
69	76.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
70	76.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
71	76.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
72	76.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
73	75.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
74	75.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
75	75.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
76	75.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
77	74.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
78	74.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
79	74.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
80	74.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
81	73.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
82	73.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
83	73.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
84	73.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
85	72.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
86	72.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
87	72.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
88	72.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
89	71.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
90	71.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
91	71.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
92	71.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
93	70.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
94	70.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
95	70.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
96	70.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
97	69.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
98	69.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
99	69.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00

100	69.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
101	68.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
102	68.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
103	68.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
104	68.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
105	67.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
106	67.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
107	67.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
108	67.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
109	66.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
110	66.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
111	66.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
112	66.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
113	65.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
114	65.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
115	65.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
116	65.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
117	64.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
118	64.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
119	64.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
120	64.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
121	63.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
122	63.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
123	63.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
124	63.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
125	62.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
126	62.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
127	62.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
128	62.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
129	61.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
130	61.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
131	61.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
132	61.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
133	60.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
134	60.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
135	60.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
136	60.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
137	59.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
138	59.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
139	59.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
140	59.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
141	58.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
142	58.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
143	58.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
144	58.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
145	57.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
146	57.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
147	57.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
148	57.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
149	56.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00

150	56.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
151	56.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
152	56.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
153	55.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
154	55.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
155	55.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
156	55.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
157	54.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
158	54.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
159	54.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
160	54.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
161	53.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
162	53.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
163	53.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
164	53.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
165	52.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
166	52.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
167	52.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
168	52.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
169	51.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
170	51.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
171	51.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
172	51.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
173	50.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
174	50.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
175	50.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
176	50.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
177	49.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
178	49.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
179	49.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
180	49.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
181	48.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
182	48.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
183	48.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
184	48.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
185	47.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
186	47.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
187	47.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
188	47.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
189	46.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
190	46.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
191	46.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
192	46.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
193	45.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
194	45.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
195	45.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
196	45.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
197	44.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
198	44.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
199	44.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00

200	44.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
201	43.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
202	43.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
203	43.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
204	43.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
205	42.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
206	42.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
207	42.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
208	42.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
209	41.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
210	41.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
211	41.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
212	41.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
213	40.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
214	40.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
215	40.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
216	40.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
217	39.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
218	39.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
219	39.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
220	39.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
221	38.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
222	38.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
223	38.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
224	38.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
405	37.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
406	37.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
407	37.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
408	37.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
409	36.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
410	36.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
411	36.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
412	36.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
413	35.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
414	35.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
415	35.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
416	35.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
417	34.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
418	34.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
419	34.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
420	34.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
421	33.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
422	33.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
423	33.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
424	33.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
425	32.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
426	32.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
427	32.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
428	32.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
429	31.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00

430	31.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
431	31.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
432	31.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
433	30.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
434	30.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
435	30.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
436	30.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
437	29.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
438	29.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
439	29.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
440	29.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
441	28.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
442	28.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
443	28.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
444	28.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
445	27.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
446	27.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
447	27.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
448	27.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
449	26.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
450	26.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
451	26.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
452	26.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
453	25.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
454	25.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
455	25.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
456	25.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
457	24.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
458	24.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
459	24.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
460	24.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
461	23.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
462	23.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
463	23.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
464	23.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
465	22.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
466	22.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
467	22.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
468	22.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
469	21.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
470	21.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
471	21.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
472	21.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
473	20.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
474	20.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
475	20.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
476	20.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
477	19.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
478	19.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
479	19.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00

480	19.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
481	18.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
482	18.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
483	18.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
484	18.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
485	17.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
486	17.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
487	17.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
488	17.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
489	16.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
490	16.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
491	16.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
492	16.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
493	15.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
494	15.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
495	15.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
496	15.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
497	14.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
498	14.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
499	14.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
500	14.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
501	13.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
502	13.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
503	13.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
504	13.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
505	12.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
506	12.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
507	12.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
508	12.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
509	11.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
510	11.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
511	11.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
512	11.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
513	10.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
514	10.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
515	10.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
516	10.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
517	9.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
518	9.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
519	9.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
520	9.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
521	8.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
522	8.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
523	8.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
524	8.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
525	7.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
526	7.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
527	7.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
528	7.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
529	6.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00

530	6.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
531	6.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
532	6.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
533	5.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
534	5.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
535	5.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
536	5.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
537	4.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
538	4.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
539	4.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
540	4.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
541	3.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
542	3.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
543	3.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
544	3.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
545	2.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
546	2.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
547	2.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
548	2.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
549	1.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
550	1.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
551	1.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
552	1.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
553	0.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
554	0.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
555	0.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
556	0.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00

SPECIAL REPORT: Bayou Black

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 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SOD *	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
225	44.750	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
226	44.500	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
227	44.250	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
228	44.000	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
229	43.750	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
230	43.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
231	43.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
232	43.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
233	42.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
234	42.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
235	42.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
236	42.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
237	41.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
238	41.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
239	41.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
240	41.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
241	40.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
242	40.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00

243	40.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
244	40.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
245	39.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
246	39.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
247	39.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
248	39.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
249	38.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
250	38.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
251	38.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
252	38.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
253	37.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.44	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
254	37.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
255	37.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
256	37.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
257	36.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
258	36.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
259	36.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
260	36.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
261	35.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
262	35.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
263	35.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
264	35.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
265	34.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
266	34.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
267	34.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
268	34.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
269	33.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
270	33.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00
271	33.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
272	33.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
273	32.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
274	32.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
275	32.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
276	32.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
277	31.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
278	31.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
279	31.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
280	31.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
281	30.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
282	30.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
283	30.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
284	30.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00
285	29.750	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
286	29.500	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
287	29.250	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.00
288	29.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
289	28.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.21	0.00	0.00	0.00	0.00
290	28.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
291	28.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
292	28.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00

293	27.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00
294	27.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
295	27.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
296	27.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.14	0.00	0.00	0.00	0.00
297	26.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
298	26.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
299	26.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
300	26.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
301	25.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
302	25.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
303	25.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
304	25.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
305	24.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
306	24.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.04	0.00	0.00	0.00	0.00
307	24.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
308	24.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
309	23.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00
310	23.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
311	23.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.99	0.00	0.00	0.00	0.00
312	23.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00
313	22.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
314	22.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.96	0.00	0.00	0.00	0.00
315	22.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00
316	22.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.94	0.00	0.00	0.00	0.00
317	21.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
318	21.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
319	21.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.91	0.00	0.00	0.00	0.00
320	21.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
321	20.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.89	0.00	0.00	0.00	0.00
322	20.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00
323	20.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
324	20.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.86	0.00	0.00	0.00	0.00
325	19.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
326	19.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
327	19.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
328	19.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
329	18.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
330	18.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00
331	18.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.79	0.00	0.00	0.00	0.00
332	18.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.00
333	17.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
334	17.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00
335	17.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00
336	17.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
337	16.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
338	16.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
339	16.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
340	16.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
341	15.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
342	15.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00

343	15.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
344	15.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00
345	14.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
346	14.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
347	14.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
348	14.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00
349	13.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
350	13.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
351	13.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
352	13.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
353	12.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
354	12.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.57	0.00	0.00	0.00	0.00
355	12.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
356	12.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
357	11.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.37	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.00
358	11.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.37	0.00	0.00	0.00	1.53	0.00	0.00	0.00	0.00
359	11.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
360	11.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
361	10.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00
362	10.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
363	10.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
364	10.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
365	9.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
366	9.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
367	9.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00
368	9.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
369	8.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
370	8.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
371	8.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
372	8.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
373	7.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.44	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
374	7.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.44	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
375	7.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.44	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
376	7.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
377	6.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
378	6.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
379	6.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
380	6.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
381	5.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
382	5.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
383	5.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
384	5.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
385	4.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
386	4.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
387	4.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
388	4.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
389	3.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
390	3.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
391	3.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
392	3.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00

393	2.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
394	2.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
395	2.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00
396	2.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
397	1.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
398	1.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
399	1.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
400	1.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
401	0.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
402	0.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
403	0.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
404	0.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00

FINAL REPORT ICWW LA-QUAL calibration for Gulf ICWW and Bayou Black

REACH NO. 1 Gulf ICWW FTN Field Survey calibration

********** 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
1	HDWTR	0.25500	31.20	0.00	0.00	0.00	6.70	3.70	0.00	3.70	0.00	1.30	0.10	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.02632	30.90	0.00	0.00	0.00	7.22	6.67	0.00			1.40	0.10	0.00	0.00	0.00	0.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
1	94.00	93.75	0.28132	0.0	0.00017	17.46	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
2	93.75	93.50	0.30763	0.0	0.00018	15.96	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
3	93.50	93.25	0.33395	0.0	0.00020	14.71	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
4	93.25	93.00	0.36026	0.0	0.00021	13.63	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
5	93.00	92.75	0.38658	0.0	0.00023	12.70	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
6	92.75	92.50	0.41289	0.0	0.00024	11.89	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
7	92.50	92.25	0.43921	0.0	0.00026	11.18	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
8	92.25	92.00	0.46553	0.0	0.00027	10.55	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
9	92.00	91.75	0.49184	0.0	0.00029	9.98	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
10	91.75	91.50	0.51816	0.0	0.00031	9.48	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
11	91.50	91.25	0.54447	0.0	0.00032	9.02	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
12	91.25	91.00	0.57079	0.0	0.00034	8.60	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
13	91.00	90.75	0.59711	0.0	0.00035	8.22	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
14	90.75	90.50	0.62342	0.0	0.00037	7.88	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
15	90.50	90.25	0.64974	0.0	0.00038	7.56	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
16	90.25	90.00	0.67605	0.0	0.00040	7.26	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
17	90.00	89.75	0.70237	0.0	0.00041	6.99	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
18	89.75	89.50	0.72868	0.0	0.00043	6.74	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
19	89.50	89.25	0.75500	0.0	0.00044	6.50	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
20	89.25	89.00	0.78132	0.0	0.00046	6.29	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
21	89.00	88.75	0.80763	0.0	0.00048	6.08	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
22	88.75	88.50	0.83395	0.0	0.00049	5.89	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
23	88.50	88.25	0.86026	0.0	0.00051	5.71	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
24	88.25	88.00	0.88658	0.0	0.00052	5.54	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
25	88.00	87.75	0.91289	0.0	0.00054	5.38	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
26	87.75	87.50	0.93921	0.0	0.00055	5.23	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
27	87.50	87.25	0.96553	0.0	0.00057	5.09	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001

28	87.25	87.00	0.99184	0.0	0.00058	4.95	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
29	87.00	86.75	1.01816	0.0	0.00060	4.82	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
30	86.75	86.50	1.04447	0.0	0.00062	4.70	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
31	86.50	86.25	1.07079	0.0	0.00063	4.59	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
32	86.25	86.00	1.09711	0.0	0.00065	4.48	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
33	86.00	85.75	1.12342	0.0	0.00066	4.37	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
34	85.75	85.50	1.14974	0.0	0.00068	4.27	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
35	85.50	85.25	1.17605	0.0	0.00069	4.18	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
36	85.25	85.00	1.20237	0.0	0.00071	4.08	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
37	85.00	84.75	1.22868	0.0	0.00072	4.00	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
38	84.75	84.50	1.25500	0.0	0.00074	3.91	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
TOT					289.87				16122990.00	1733655.00					
AVG				0.0004			9.30	182.49			1697.16				
CUM					289.87										

********** 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	93.750	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
2	93.500	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
3	93.250	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
4	93.000	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
5	92.750	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
6	92.500	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
7	92.250	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
8	92.000	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
9	91.750	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
10	91.500	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
11	91.250	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
12	91.000	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
13	90.750	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
14	90.500	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
15	90.250	7.36	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
16	90.000	7.36	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
17	89.750	7.36	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
18	89.500	7.36	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
19	89.250	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
20	89.000	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
21	88.750	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
22	88.500	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
23	88.250	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
24	88.000	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
25	87.750	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
26	87.500	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
27	87.250	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
28	87.000	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
29	86.750	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
30	86.500	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
31	86.250	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
32	86.000	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	

33	85.750	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
34	85.500	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
35	85.250	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
36	85.000	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
37	84.750	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
38	84.500	7.30	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.08	0.15	0.00	0.00	0.00	0.00	0.00	1.00			0.02	0.00	0.13	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
1	93.750	31.22	0.00	0.00	0.00	6.59	2.41	0.00	2.41	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
2	93.500	31.24	0.00	0.00	0.00	6.59	2.38	0.00	2.38	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
3	93.250	31.26	0.00	0.00	0.00	6.60	2.35	0.00	2.35	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
4	93.000	31.28	0.00	0.00	0.00	6.62	2.34	0.00	2.34	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
5	92.750	31.31	0.00	0.00	0.00	6.63	2.33	0.00	2.33	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
6	92.500	31.33	0.00	0.00	0.00	6.64	2.32	0.00	2.32	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
7	92.250	31.35	0.00	0.00	0.00	6.65	2.31	0.00	2.31	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
8	92.000	31.37	0.00	0.00	0.00	6.66	2.31	0.00	2.31	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
9	91.750	31.39	0.00	0.00	0.00	6.67	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
10	91.500	31.41	0.00	0.00	0.00	6.68	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
11	91.250	31.43	0.00	0.00	0.00	6.68	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
12	91.000	31.45	0.00	0.00	0.00	6.69	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
13	90.750	31.47	0.00	0.00	0.00	6.69	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
14	90.500	31.49	0.00	0.00	0.00	6.70	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
15	90.250	31.52	0.00	0.00	0.00	6.70	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
16	90.000	31.54	0.00	0.00	0.00	6.70	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
17	89.750	31.56	0.00	0.00	0.00	6.71	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
18	89.500	31.58	0.00	0.00	0.00	6.71	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
19	89.250	31.60	0.00	0.00	0.00	6.71	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
20	89.000	31.62	0.00	0.00	0.00	6.71	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00
21	88.750	31.64	0.00	0.00	0.00	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
22	88.500	31.66	0.00	0.00	0.00	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
23	88.250	31.68	0.00	0.00	0.00	6.70	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
24	88.000	31.71	0.00	0.00	0.00	6.70	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
25	87.750	31.73	0.00	0.00	0.00	6.69	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
26	87.500	31.75	0.00	0.00	0.00	6.67	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
27	87.250	31.77	0.00	0.00	0.00	6.65	2.27	0.00	2.27	0.00	1.32	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00
28	87.000	31.79	0.00	0.00	0.00	6.62	2.27	0.00	2.27	0.00	1.32	0.12	0.00	1.44	0.00	20.00	0.00	0.	0.00
29	86.750	31.81	0.00	0.00	0.00	6.58	2.27	0.00	2.27	0.00	1.32	0.12	0.00	1.44	0.00	20.00	0.00	0.	0.00
30	86.500	31.83	0.00	0.00	0.00	6.52	2.28	0.00	2.28	0.00	1.33	0.12	0.00	1.45	0.00	20.00	0.00	0.	0.00
31	86.250	31.85	0.00	0.00	0.00	6.45	2.29	0.00	2.29	0.00	1.34	0.12	0.00	1.46	0.00	20.00	0.00	0.	0.00
32	86.000	31.87	0.00	0.00	0.00	6.34	2.31	0.00	2.31	0.00	1.35	0.12	0.00	1.47	0.00	20.00	0.00	0.	0.00
33	85.750	31.89	0.00	0.00	0.00	6.20	2.35	0.00	2.35	0.00	1.36	0.12	0.00	1.48	0.00	20.00	0.00	0.	0.00
34	85.500	31.92	0.00	0.00	0.00	6.01	2.42	0.00	2.42	0.00	1.38	0.12	0.00	1.50	0.00	20.00	0.00	0.	0.00
35	85.250	31.94	0.00	0.00	0.00	5.77	2.53	0.00	2.53	0.00	1.40	0.12	0.00	1.52	0.00	20.00	0.00	0.	0.00
36	85.000	31.96	0.00	0.00	0.00	5.47	2.73	0.00	2.73	0.00	1.43	0.12	0.00	1.55	0.00	20.00	0.00	0.	0.00
37	84.750	31.98	0.00	0.00	0.00	5.11	3.08	0.00	3.08	0.00	1.47	0.12	0.00	1.59	0.00	20.00	0.00	0.	0.00
38	84.500	32.00	0.00	0.00	0.00	4.72	3.67	0.00	3.67	0.00	1.52	0.12	0.00	1.63	0.00	20.00	0.00	0.	0.00

FINAL REPORT ICWW LA-QUAL calibration for Gulf ICWW and Bayou Black

REACH NO. 2 Gulf ICWW FTN Field Survey calibration

********** 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 #/100mL	CHL A	COLI	NCM
39	UPR RCH	1.25500	32.00	0.00	0.00	0.00	4.72	3.67	0.00	3.67	0.00	1.52	0.12	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.01644	30.90	0.00	0.00	0.00	7.22	6.67	0.00			1.40	0.10	0.00	0.00	0.00	0.00	
39	WSTLD	47.90509	31.20	0.00	0.00	0.00	4.40	5.00	0.00	5.00	0.00	1.60	0.10	0.00	0.00	0.00	0.00	0.00
57	WSTLD	-36.47580	32.04	0.00	0.00	0.00	3.78	3.46	0.00	3.46	0.00	1.52	0.13	0.00	0.00	20.00	0.00	0.00
89	WSTLD	1.55720	31.20	0.00	0.00	0.00	6.60	6.20	0.00	6.20	0.00	1.40	0.10	0.00	0.00	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 m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
39	84.50	84.25	49.17653	97.4	0.01762	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
40	84.25	84.00	49.19297	97.4	0.01763	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
41	84.00	83.75	49.20942	97.3	0.01763	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
42	83.75	83.50	49.22586	97.3	0.01764	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
43	83.50	83.25	49.24230	97.3	0.01764	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
44	83.25	83.00	49.25874	97.3	0.01765	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
45	83.00	82.75	49.27518	97.2	0.01766	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
46	82.75	82.50	49.29162	97.2	0.01766	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
47	82.50	82.25	49.30806	97.2	0.01767	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
48	82.25	82.00	49.32450	97.1	0.01767	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
49	82.00	81.75	49.34095	97.1	0.01768	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
50	81.75	81.50	49.35739	97.1	0.01768	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
51	81.50	81.25	49.37383	97.0	0.01769	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
52	81.25	81.00	49.39027	97.0	0.01770	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
53	81.00	80.75	49.40671	97.0	0.01770	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
54	80.75	80.50	49.42315	96.9	0.01771	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
55	80.50	80.25	49.43959	96.9	0.01771	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
56	80.25	80.00	49.45604	96.9	0.01772	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
57	80.00	79.75	12.99668	96.8	0.00466	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
58	79.75	79.50	13.01312	96.7	0.00466	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
59	79.50	79.25	13.02956	96.6	0.00467	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
60	79.25	79.00	13.04600	96.5	0.00467	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
61	79.00	78.75	13.06245	96.3	0.00468	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
62	78.75	78.50	13.07889	96.2	0.00469	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
63	78.50	78.25	13.09533	96.1	0.00469	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
64	78.25	78.00	13.11177	96.0	0.00470	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
65	78.00	77.75	13.12822	95.9	0.00470	0.62	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
66	77.75	77.50	13.14466	95.7	0.00471	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
67	77.50	77.25	13.16110	95.6	0.00472	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
68	77.25	77.00	13.17754	95.5	0.00472	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
69	77.00	76.75	13.19398	95.4	0.00473	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
70	76.75	76.50	13.21043	95.3	0.00473	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
71	76.50	76.25	13.22687	95.1	0.00474	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
72	76.25	76.00	13.24331	95.0	0.00475	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
73	76.00	75.75	13.25975	94.9	0.00475	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
74	75.75	75.50	13.27620	94.8	0.00476	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
75	75.50	75.25	13.29264	94.7	0.00476	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005

76	75.25	75.00	13.30908	94.6	0.00477	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
77	75.00	74.75	13.32552	94.4	0.00477	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
78	74.75	74.50	13.34197	94.3	0.00478	0.61	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
79	74.50	74.25	13.35841	94.2	0.00479	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
80	74.25	74.00	13.37485	94.1	0.00479	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
81	74.00	73.75	13.39129	94.0	0.00480	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
82	73.75	73.50	13.40773	93.9	0.00480	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
83	73.50	73.25	13.42418	93.7	0.00481	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
84	73.25	73.00	13.44062	93.6	0.00482	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
85	73.00	72.75	13.45706	93.5	0.00482	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
86	72.75	72.50	13.47350	93.4	0.00483	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
87	72.50	72.25	13.48995	93.3	0.00483	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
88	72.25	72.00	13.50639	93.2	0.00484	0.60	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
89	72.00	71.75	15.08003	93.8	0.00540	0.54	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
90	71.75	71.50	15.09647	93.7	0.00541	0.53	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.005
TOT				23.52				36282368.00	2717780.00						
AVG			0.0064				13.35	209.06			2790.95				
CUM				313.39											

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

ELEM NO.	ENDING DIST mg/L	SAT D.O. 1/da	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#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	SRCE 1/da	DENIT PROD 1/da	PO4 PROD 1/da	ALG DECAY 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
39	84.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
40	84.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
41	83.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
42	83.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
43	83.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
44	83.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
45	82.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
46	82.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
47	82.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
48	82.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
49	81.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
50	81.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
51	81.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
52	81.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
53	80.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
54	80.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
55	80.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
56	80.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
57	79.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
58	79.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
59	79.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
60	79.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
61	78.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
62	78.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
63	78.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
64	78.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
65	77.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
66	77.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		

67	77.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
68	77.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
69	76.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
70	76.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
71	76.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
72	76.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
73	75.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
74	75.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
75	75.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
76	75.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
77	74.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
78	74.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
79	74.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
80	74.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
81	73.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
82	73.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
83	73.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
84	73.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
85	72.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
86	72.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
87	72.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
88	72.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
89	71.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
90	71.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.05	0.15	0.00	0.00	0.00	0.00	0.00	1.00			0.02	0.00	0.13	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
39	84.250	32.00	0.00	0.00	0.00	4.38	4.73	0.00	4.73	0.00	1.59	0.10	0.00	1.69	0.00	20.00	0.00	0.	0.00	
40	84.000	32.00	0.00	0.00	0.00	4.31	4.63	0.00	4.63	0.00	1.58	0.11	0.00	1.69	0.00	20.00	0.00	0.	0.00	
41	83.750	32.01	0.00	0.00	0.00	4.26	4.54	0.00	4.54	0.00	1.58	0.11	0.00	1.69	0.00	20.00	0.00	0.	0.00	
42	83.500	32.01	0.00	0.00	0.00	4.20	4.45	0.00	4.45	0.00	1.57	0.11	0.00	1.68	0.00	20.00	0.00	0.	0.00	
43	83.250	32.01	0.00	0.00	0.00	4.15	4.36	0.00	4.36	0.00	1.57	0.11	0.00	1.68	0.00	20.00	0.00	0.	0.00	
44	83.000	32.01	0.00	0.00	0.00	4.11	4.28	0.00	4.28	0.00	1.57	0.11	0.00	1.68	0.00	20.00	0.00	0.	0.00	
45	82.750	32.01	0.00	0.00	0.00	4.06	4.20	0.00	4.20	0.00	1.56	0.12	0.00	1.68	0.00	20.00	0.00	0.	0.00	
46	82.500	32.02	0.00	0.00	0.00	4.03	4.13	0.00	4.13	0.00	1.56	0.12	0.00	1.68	0.00	20.00	0.00	0.	0.00	
47	82.250	32.02	0.00	0.00	0.00	3.99	4.05	0.00	4.05	0.00	1.55	0.12	0.00	1.67	0.00	20.00	0.00	0.	0.00	
48	82.000	32.02	0.00	0.00	0.00	3.96	3.98	0.00	3.98	0.00	1.55	0.12	0.00	1.67	0.00	20.00	0.00	0.	0.00	
49	81.750	32.02	0.00	0.00	0.00	3.93	3.92	0.00	3.92	0.00	1.55	0.12	0.00	1.67	0.00	20.00	0.00	0.	0.00	
50	81.500	32.02	0.00	0.00	0.00	3.90	3.85	0.00	3.85	0.00	1.54	0.12	0.00	1.67	0.00	20.00	0.00	0.	0.00	
51	81.250	32.03	0.00	0.00	0.00	3.88	3.79	0.00	3.79	0.00	1.54	0.12	0.00	1.66	0.00	20.00	0.00	0.	0.00	
52	81.000	32.03	0.00	0.00	0.00	3.85	3.73	0.00	3.73	0.00	1.54	0.12	0.00	1.66	0.00	20.00	0.00	0.	0.00	
53	80.750	32.03	0.00	0.00	0.00	3.84	3.68	0.00	3.68	0.00	1.53	0.13	0.00	1.66	0.00	20.00	0.00	0.	0.00	
54	80.500	32.03	0.00	0.00	0.00	3.82	3.62	0.00	3.62	0.00	1.53	0.13	0.00	1.66	0.00	20.00	0.00	0.	0.00	
55	80.250	32.03	0.00	0.00	0.00	3.80	3.57	0.00	3.57	0.00	1.52	0.13	0.00	1.65	0.00	20.00	0.00	0.	0.00	
56	80.000	32.03	0.00	0.00	0.00	3.79	3.52	0.00	3.52	0.00	1.52	0.13	0.00	1.65	0.00	20.00	0.00	0.	0.00	
57	79.750	32.04	0.00	0.00	0.00	3.78	3.46	0.00	3.46	0.00	1.52	0.13	0.00	1.65	0.00	20.00	0.00	0.	0.00	
58	79.500	32.04	0.00	0.00	0.00	3.77	3.32	0.00	3.32	0.00	1.50	0.13	0.00	1.64	0.00	20.00	0.00	0.	0.00	
59	79.250	32.04	0.00	0.00	0.00	3.78	3.19	0.00	3.19	0.00	1.49	0.13	0.00	1.62	0.00	20.00	0.00	0.	0.00	

60	79.000	32.04	0.00	0.00	0.00	3.80	3.08	0.00	3.08	0.00	1.48	0.14	0.00	1.61	0.00	20.00	0.00	0.	0.00
61	78.750	32.04	0.00	0.00	0.00	3.84	2.98	0.00	2.98	0.00	1.46	0.14	0.00	1.60	0.00	20.00	0.00	0.	0.00
62	78.500	32.05	0.00	0.00	0.00	3.88	2.90	0.00	2.90	0.00	1.45	0.14	0.00	1.59	0.00	20.00	0.00	0.	0.00
63	78.250	32.05	0.00	0.00	0.00	3.93	2.83	0.00	2.83	0.00	1.44	0.14	0.00	1.58	0.00	20.00	0.00	0.	0.00
64	78.000	32.05	0.00	0.00	0.00	3.99	2.76	0.00	2.76	0.00	1.43	0.14	0.00	1.57	0.00	20.00	0.00	0.	0.00
65	77.750	32.05	0.00	0.00	0.00	4.05	2.71	0.00	2.71	0.00	1.42	0.14	0.00	1.55	0.00	20.00	0.00	0.	0.00
66	77.500	32.05	0.00	0.00	0.00	4.12	2.66	0.00	2.66	0.00	1.40	0.14	0.00	1.54	0.00	20.00	0.00	0.	0.00
67	77.250	32.06	0.00	0.00	0.00	4.19	2.62	0.00	2.62	0.00	1.39	0.14	0.00	1.53	0.00	20.00	0.00	0.	0.00
68	77.000	32.06	0.00	0.00	0.00	4.27	2.59	0.00	2.59	0.00	1.38	0.14	0.00	1.52	0.00	20.00	0.00	0.	0.00
69	76.750	32.06	0.00	0.00	0.00	4.34	2.56	0.00	2.56	0.00	1.37	0.14	0.00	1.51	0.00	20.00	0.00	0.	0.00
70	76.500	32.06	0.00	0.00	0.00	4.42	2.53	0.00	2.53	0.00	1.36	0.14	0.00	1.50	0.00	20.00	0.00	0.	0.00
71	76.250	32.06	0.00	0.00	0.00	4.49	2.51	0.00	2.51	0.00	1.35	0.14	0.00	1.48	0.00	20.00	0.00	0.	0.00
72	76.000	32.07	0.00	0.00	0.00	4.57	2.49	0.00	2.49	0.00	1.34	0.13	0.00	1.47	0.00	20.00	0.00	0.	0.00
73	75.750	32.07	0.00	0.00	0.00	4.65	2.47	0.00	2.47	0.00	1.33	0.13	0.00	1.46	0.00	20.00	0.00	0.	0.00
74	75.500	32.07	0.00	0.00	0.00	4.72	2.45	0.00	2.45	0.00	1.32	0.13	0.00	1.45	0.00	20.00	0.00	0.	0.00
75	75.250	32.07	0.00	0.00	0.00	4.80	2.44	0.00	2.44	0.00	1.31	0.13	0.00	1.44	0.00	20.00	0.00	0.	0.00
76	75.000	32.07	0.00	0.00	0.00	4.87	2.43	0.00	2.43	0.00	1.30	0.13	0.00	1.43	0.00	20.00	0.00	0.	0.00
77	74.750	32.08	0.00	0.00	0.00	4.94	2.42	0.00	2.42	0.00	1.29	0.13	0.00	1.42	0.00	20.00	0.00	0.	0.00
78	74.500	32.08	0.00	0.00	0.00	5.02	2.41	0.00	2.41	0.00	1.28	0.13	0.00	1.41	0.00	20.00	0.00	0.	0.00
79	74.250	32.08	0.00	0.00	0.00	5.09	2.40	0.00	2.40	0.00	1.27	0.13	0.00	1.40	0.00	20.00	0.00	0.	0.00
80	74.000	32.08	0.00	0.00	0.00	5.16	2.40	0.00	2.40	0.00	1.26	0.13	0.00	1.39	0.00	20.00	0.00	0.	0.00
81	73.750	32.08	0.00	0.00	0.00	5.22	2.39	0.00	2.39	0.00	1.25	0.12	0.00	1.38	0.00	20.00	0.00	0.	0.00
82	73.500	32.08	0.00	0.00	0.00	5.29	2.39	0.00	2.39	0.00	1.24	0.12	0.00	1.37	0.00	20.00	0.00	0.	0.00
83	73.250	32.09	0.00	0.00	0.00	5.36	2.38	0.00	2.38	0.00	1.23	0.12	0.00	1.36	0.00	20.00	0.00	0.	0.00
84	73.000	32.09	0.00	0.00	0.00	5.42	2.38	0.00	2.38	0.00	1.23	0.12	0.00	1.35	0.00	20.00	0.00	0.	0.00
85	72.750	32.09	0.00	0.00	0.00	5.48	2.38	0.00	2.38	0.00	1.22	0.12	0.00	1.34	0.00	20.00	0.00	0.	0.00
86	72.500	32.09	0.00	0.00	0.00	5.54	2.38	0.00	2.38	0.00	1.21	0.12	0.00	1.33	0.00	20.00	0.00	0.	0.00
87	72.250	32.09	0.00	0.00	0.00	5.60	2.39	0.00	2.39	0.00	1.20	0.12	0.00	1.32	0.00	20.00	0.00	0.	0.00
88	72.000	32.10	0.00	0.00	0.00	5.65	2.45	0.00	2.45	0.00	1.20	0.12	0.00	1.31	0.00	20.00	0.00	0.	0.00
89	71.750	32.10	0.00	0.00	0.00	5.72	2.69	0.00	2.69	0.00	1.21	0.11	0.00	1.32	0.00	20.00	0.00	0.	0.00
90	71.500	32.10	0.00	0.00	0.00	5.70	2.64	0.00	2.64	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00

FINAL REPORT ICWW LA-QUAL calibration for Gulf ICWW and Bayou Black
REACH NO. 3 Gulf ICWW FTN Field Survey calibration

********** 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
91	UPR RCH	15.09647	32.10	0.00	0.00	0.00	5.70	2.64	0.00	2.64	0.00	1.20	0.11	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.01645	30.90	0.00	0.00	0.00	7.22	6.67	0.00			1.40	0.10	0.00	0.00	0.00	0.00	
117	WSTLD	15.28886	31.20	0.00	0.00	0.00	6.60	6.20	0.00	6.20	0.00	1.40	0.10	0.00	0.00	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
91	71.50	71.25	15.11292	93.6	0.00299	0.97	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
92	71.25	71.00	15.12937	93.5	0.00300	0.97	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
93	71.00	70.75	15.14581	93.4	0.00300	0.96	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
94	70.75	70.50	15.16226	93.3	0.00300	0.96	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
95	70.50	70.25	15.17871	93.2	0.00301	0.96	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
96	70.25	70.00	15.19516	93.1	0.00301	0.96	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
97	70.00	69.75	15.21160	93.0	0.00301	0.96	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003

98	69.75	69.50	15.22805	92.9	0.00302	0.96	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
99	69.50	69.25	15.24450	92.8	0.00302	0.96	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
100	69.25	69.00	15.26094	92.7	0.00302	0.96	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
101	69.00	68.75	15.27739	92.6	0.00303	0.96	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
102	68.75	68.50	15.29384	92.5	0.00303	0.96	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
103	68.50	68.25	15.31028	92.4	0.00303	0.95	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
104	68.25	68.00	15.32673	92.3	0.00304	0.95	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
105	68.00	67.75	15.34318	92.2	0.00304	0.95	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
106	67.75	67.50	15.35963	92.1	0.00304	0.95	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
107	67.50	67.25	15.37607	92.0	0.00305	0.95	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
108	67.25	67.00	15.39252	91.9	0.00305	0.95	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
109	67.00	66.75	15.40897	91.8	0.00305	0.95	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
110	66.75	66.50	15.42541	91.7	0.00306	0.95	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
111	66.50	66.25	15.44186	91.6	0.00306	0.95	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
112	66.25	66.00	15.45831	91.5	0.00306	0.94	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
113	66.00	65.75	15.47476	91.4	0.00307	0.94	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
114	65.75	65.50	15.49120	91.3	0.00307	0.94	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
115	65.50	65.25	15.50765	91.2	0.00307	0.94	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
116	65.25	65.00	15.52410	91.1	0.00308	0.94	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.003
117	65.00	64.75	30.82940	95.5	0.00611	0.47	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.006
118	64.75	64.50	30.84585	95.4	0.00611	0.47	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.006
119	64.50	64.25	30.86230	95.4	0.00611	0.47	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.006
120	64.25	64.00	30.87874	95.3	0.00612	0.47	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.006
121	64.00	63.75	30.89519	95.3	0.00612	0.47	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.006
122	63.75	63.50	30.91164	95.2	0.00612	0.47	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.006
123	63.50	63.25	30.92809	95.2	0.00613	0.47	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.006
124	63.25	63.00	30.94453	95.1	0.00613	0.47	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.006
125	63.00	62.75	30.96098	95.1	0.00613	0.47	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.006
126	62.75	62.50	30.97743	95.0	0.00614	0.47	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.006
127	62.50	62.25	30.99387	95.0	0.00614	0.47	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.006
128	62.25	62.00	31.01032	94.9	0.00614	0.47	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.006
TOT					30.46			47955836.00	3755350.00						
AVG					0.0036		12.77	395.30			5047.98				
CUM					343.85										

********** 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 DECAY 1/da	BOD#2 SETT *	ABOD#2 DECAY *	BKGD SOD *	FULL SOD 1/da	CORR SOD 1/da	ORGN DECAY *	ORGN SETT 1/da	NH3 DECAY *	NH3 SRCE **	DENIT RATE **	PO4 SRCE 1/da	ALG PROD 1/da	MAC PROD 1/da	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
91	71.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
92	71.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
93	70.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
94	70.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
95	70.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
96	70.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.29	4.29	4.29	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
97	69.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
98	69.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
99	69.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
100	69.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
101	68.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
102	68.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00

103	68.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.30	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
104	68.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
105	67.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
106	67.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
107	67.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
108	67.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
109	66.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
110	66.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.31	4.31	4.31	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
111	66.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
112	66.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
113	65.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
114	65.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
115	65.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
116	65.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
117	64.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.32	4.32	4.32	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
118	64.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
119	64.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
120	64.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
121	63.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
122	63.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
123	63.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
124	63.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.33	4.33	4.33	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
125	62.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
126	62.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
127	62.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
128	62.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.34	4.34	4.34	0.03	0.00	0.26	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.05	0.15	0.00	0.00	0.00	0.00	0.00	2.00			0.02	0.00	0.13	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
91	71.250	32.11	0.00	0.00	0.00	5.58	2.60	0.00	2.60	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
92	71.000	32.11	0.00	0.00	0.00	5.48	2.56	0.00	2.56	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
93	70.750	32.12	0.00	0.00	0.00	5.40	2.53	0.00	2.53	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
94	70.500	32.12	0.00	0.00	0.00	5.32	2.51	0.00	2.51	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
95	70.250	32.13	0.00	0.00	0.00	5.26	2.49	0.00	2.49	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
96	70.000	32.13	0.00	0.00	0.00	5.20	2.47	0.00	2.47	0.00	1.17	0.11	0.00	1.28	0.00	20.00	0.00	0.	0.00
97	69.750	32.14	0.00	0.00	0.00	5.15	2.46	0.00	2.46	0.00	1.17	0.11	0.00	1.28	0.00	20.00	0.00	0.	0.00
98	69.500	32.14	0.00	0.00	0.00	5.11	2.45	0.00	2.45	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
99	69.250	32.15	0.00	0.00	0.00	5.07	2.44	0.00	2.44	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
100	69.000	32.15	0.00	0.00	0.00	5.03	2.44	0.00	2.44	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
101	68.750	32.16	0.00	0.00	0.00	5.00	2.43	0.00	2.43	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
102	68.500	32.16	0.00	0.00	0.00	4.97	2.42	0.00	2.42	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
103	68.250	32.17	0.00	0.00	0.00	4.95	2.42	0.00	2.42	0.00	1.15	0.11	0.00	1.25	0.00	20.00	0.00	0.	0.00
104	68.000	32.17	0.00	0.00	0.00	4.93	2.42	0.00	2.42	0.00	1.14	0.11	0.00	1.25	0.00	20.00	0.00	0.	0.00
105	67.750	32.18	0.00	0.00	0.00	4.91	2.41	0.00	2.41	0.00	1.14	0.11	0.00	1.25	0.00	20.00	0.00	0.	0.00
106	67.500	32.18	0.00	0.00	0.00	4.89	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.24	0.00	20.00	0.00	0.	0.00
107	67.250	32.19	0.00	0.00	0.00	4.87	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.24	0.00	20.00	0.00	0.	0.00
108	67.000	32.19	0.00	0.00	0.00	4.86	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.24	0.00	20.00	0.00	0.	0.00
109	66.750	32.20	0.00	0.00	0.00	4.84	2.41	0.00	2.41	0.00	1.13	0.11	0.00	1.23	0.00	20.00	0.00	0.	0.00

110	66.500	32.21	0.00	0.00	0.00	4.83	2.40	0.00	2.40	0.00	1.12	0.11	0.00	1.23	0.00	20.00	0.00	0.	0.00
111	66.250	32.21	0.00	0.00	0.00	4.82	2.40	0.00	2.40	0.00	1.12	0.11	0.00	1.23	0.00	20.00	0.00	0.	0.00
112	66.000	32.22	0.00	0.00	0.00	4.81	2.40	0.00	2.40	0.00	1.12	0.11	0.00	1.22	0.00	20.00	0.00	0.	0.00
113	65.750	32.22	0.00	0.00	0.00	4.80	2.41	0.00	2.41	0.00	1.11	0.11	0.00	1.22	0.00	20.00	0.00	0.	0.00
114	65.500	32.23	0.00	0.00	0.00	4.79	2.42	0.00	2.42	0.00	1.11	0.11	0.00	1.22	0.00	20.00	0.00	0.	0.00
115	65.250	32.23	0.00	0.00	0.00	4.79	2.48	0.00	2.48	0.00	1.12	0.11	0.00	1.23	0.00	20.00	0.00	0.	0.00
116	65.000	32.24	0.00	0.00	0.00	4.86	2.76	0.00	2.76	0.00	1.15	0.11	0.00	1.25	0.00	20.00	0.00	0.	0.00
117	64.750	32.24	0.00	0.00	0.00	5.36	3.99	0.00	3.99	0.00	1.25	0.10	0.00	1.35	0.00	20.00	0.00	0.	0.00
118	64.500	32.25	0.00	0.00	0.00	5.17	3.82	0.00	3.82	0.00	1.24	0.11	0.00	1.35	0.00	20.00	0.00	0.	0.00
119	64.250	32.25	0.00	0.00	0.00	5.01	3.66	0.00	3.66	0.00	1.24	0.11	0.00	1.35	0.00	20.00	0.00	0.	0.00
120	64.000	32.26	0.00	0.00	0.00	4.86	3.52	0.00	3.52	0.00	1.24	0.11	0.00	1.35	0.00	20.00	0.00	0.	0.00
121	63.750	32.26	0.00	0.00	0.00	4.74	3.40	0.00	3.40	0.00	1.24	0.11	0.00	1.34	0.00	20.00	0.00	0.	0.00
122	63.500	32.27	0.00	0.00	0.00	4.63	3.29	0.00	3.29	0.00	1.23	0.11	0.00	1.34	0.00	20.00	0.00	0.	0.00
123	63.250	32.27	0.00	0.00	0.00	4.53	3.19	0.00	3.19	0.00	1.23	0.11	0.00	1.34	0.00	20.00	0.00	0.	0.00
124	63.000	32.28	0.00	0.00	0.00	4.45	3.10	0.00	3.10	0.00	1.23	0.11	0.00	1.34	0.00	20.00	0.00	0.	0.00
125	62.750	32.28	0.00	0.00	0.00	4.38	3.03	0.00	3.03	0.00	1.22	0.11	0.00	1.34	0.00	20.00	0.00	0.	0.00
126	62.500	32.29	0.00	0.00	0.00	4.32	2.96	0.00	2.96	0.00	1.22	0.11	0.00	1.33	0.00	20.00	0.00	0.	0.00
127	62.250	32.29	0.00	0.00	0.00	4.27	2.90	0.00	2.90	0.00	1.22	0.11	0.00	1.33	0.00	20.00	0.00	0.	0.00
128	62.000	32.30	0.00	0.00	0.00	4.23	2.85	0.00	2.85	0.00	1.22	0.11	0.00	1.33	0.00	20.00	0.00	0.	0.00

FINAL REPORT ICWW LA-QUAL calibration for Gulf ICWW and Bayou Black
REACH NO. 4 Gulf ICWW FTN Field Survey calibration

********** 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
129	UPR RCH	31.01032	32.30	0.00	0.00	0.00	4.23	2.85	0.00	2.85	0.00	1.22	0.11	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.01644	30.90	0.00	0.00	0.00	7.22	6.67	0.00		1.40	0.10	0.00	0.00	0.00	0.00		
181	WSTLD	4.47341	31.20	0.00	0.00	0.00	10.40	7.20	0.00	7.20	0.00	1.40	0.10	0.00	0.00	0.00	0.00	0.00
181	WSTLD	-0.52378	32.08	0.00	0.00	0.00	5.17	2.90	0.00	2.90	0.00	1.19	0.11	0.00	0.00	22.21	0.00	0.00
221	WSTLD	-23.81100	31.91	0.00	0.00	0.00	5.30	2.41	0.00	2.41	0.00	1.16	0.11	0.00	0.00	23.88	0.00	0.00
223	WSTLD	0.00003	31.20	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
129	62.00	61.75	31.02676	94.9	0.01340	0.22	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
130	61.75	61.50	31.04320	94.8	0.01340	0.22	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
131	61.50	61.25	31.05963	94.8	0.01341	0.22	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
132	61.25	61.00	31.07607	94.7	0.01342	0.22	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
133	61.00	60.75	31.09251	94.7	0.01342	0.22	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
134	60.75	60.50	31.10895	94.6	0.01343	0.22	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
135	60.50	60.25	31.12538	94.6	0.01344	0.22	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
136	60.25	60.00	31.14182	94.5	0.01345	0.22	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
137	60.00	59.75	31.15826	94.5	0.01345	0.22	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
138	59.75	59.50	31.17470	94.4	0.01346	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
139	59.50	59.25	31.19113	94.4	0.01347	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
140	59.25	59.00	31.20757	94.3	0.01347	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
141	59.00	58.75	31.22401	94.3	0.01348	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
142	58.75	58.50	31.24045	94.2	0.01349	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
143	58.50	58.25	31.25688	94.2	0.01350	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.013
144	58.25	58.00	31.27332	94.1	0.01350	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014

145	58.00	57.75	31.28976	94.1	0.01351	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
146	57.75	57.50	31.30620	94.0	0.01352	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
147	57.50	57.25	31.32263	94.0	0.01352	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
148	57.25	57.00	31.33907	93.9	0.01353	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
149	57.00	56.75	31.35551	93.9	0.01354	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
150	56.75	56.50	31.37195	93.8	0.01355	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
151	56.50	56.25	31.38838	93.8	0.01355	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
152	56.25	56.00	31.40482	93.7	0.01356	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
153	56.00	55.75	31.42126	93.7	0.01357	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
154	55.75	55.50	31.43770	93.6	0.01357	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
155	55.50	55.25	31.45413	93.6	0.01358	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
156	55.25	55.00	31.47057	93.5	0.01359	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
157	55.00	54.75	31.48701	93.5	0.01359	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
158	54.75	54.50	31.50345	93.4	0.01360	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
159	54.50	54.25	31.51988	93.4	0.01361	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
160	54.25	54.00	31.53632	93.3	0.01362	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
161	54.00	53.75	31.55276	93.3	0.01362	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
162	53.75	53.50	31.56920	93.2	0.01363	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
163	53.50	53.25	31.58563	93.2	0.01364	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
164	53.25	53.00	31.60207	93.1	0.01364	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
165	53.00	52.75	31.61851	93.1	0.01365	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
166	52.75	52.50	31.63495	93.0	0.01366	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
167	52.50	52.25	31.65138	93.0	0.01367	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
168	52.25	52.00	31.66782	92.9	0.01367	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
169	52.00	51.75	31.68426	92.9	0.01368	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
170	51.75	51.50	31.70070	92.8	0.01369	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
171	51.50	51.25	31.71713	92.8	0.01369	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
172	51.25	51.00	31.73357	92.7	0.01370	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
173	51.00	50.75	31.75001	92.7	0.01371	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
174	50.75	50.50	31.76645	92.6	0.01372	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
175	50.50	50.25	31.78288	92.6	0.01372	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
176	50.25	50.00	31.79932	92.6	0.01373	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
177	50.00	49.75	31.81576	92.5	0.01374	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
178	49.75	49.50	31.83220	92.5	0.01374	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
179	49.50	49.25	31.84863	92.4	0.01375	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
180	49.25	49.00	31.86507	92.4	0.01376	0.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.014
181	49.00	48.75	35.83114	93.3	0.01547	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.015
182	48.75	48.50	35.84758	93.2	0.01548	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.015
183	48.50	48.25	35.86401	93.2	0.01548	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.015
184	48.25	48.00	35.88045	93.1	0.01549	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.015
185	48.00	47.75	35.89689	93.1	0.01550	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.015
186	47.75	47.50	35.91333	93.0	0.01551	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
187	47.50	47.25	35.92976	93.0	0.01551	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
188	47.25	47.00	35.94620	93.0	0.01552	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
189	47.00	46.75	35.96264	92.9	0.01553	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
190	46.75	46.50	35.97908	92.9	0.01553	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
191	46.50	46.25	35.99551	92.8	0.01554	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
192	46.25	46.00	36.01195	92.8	0.01555	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
193	46.00	45.75	36.02839	92.7	0.01556	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
194	45.75	45.50	36.04483	92.7	0.01556	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016

195	45.50	45.25	36.06126	92.7	0.01557	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
196	45.25	45.00	36.07770	92.6	0.01558	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
197	45.00	44.75	36.09414	92.6	0.01558	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
198	44.75	44.50	36.11058	92.5	0.01559	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
199	44.50	44.25	36.12701	92.5	0.01560	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
200	44.25	44.00	36.14345	92.5	0.01561	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
201	44.00	43.75	36.15989	92.4	0.01561	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
202	43.75	43.50	36.17633	92.4	0.01562	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
203	43.50	43.25	36.19276	92.3	0.01563	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
204	43.25	43.00	36.20920	92.3	0.01563	0.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
205	43.00	42.75	36.22564	92.2	0.01564	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
206	42.75	42.50	36.24208	92.2	0.01565	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
207	42.50	42.25	36.25851	92.2	0.01565	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
208	42.25	42.00	36.27495	92.1	0.01566	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
209	42.00	41.75	36.29139	92.1	0.01567	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
210	41.75	41.50	36.30783	92.0	0.01568	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
211	41.50	41.25	36.32426	92.0	0.01568	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
212	41.25	41.00	36.34070	92.0	0.01569	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
213	41.00	40.75	36.35714	91.9	0.01570	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
214	40.75	40.50	36.37358	91.9	0.01570	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
215	40.50	40.25	36.39001	91.8	0.01571	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
216	40.25	40.00	36.40645	91.8	0.01572	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
217	40.00	39.75	36.42289	91.7	0.01573	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
218	39.75	39.50	36.43933	91.7	0.01573	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
219	39.50	39.25	36.45576	91.7	0.01574	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
220	39.25	39.00	36.47220	91.6	0.01575	0.18	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.016
221	39.00	38.75	12.67764	91.6	0.00547	0.53	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.005
222	38.75	38.50	12.69408	91.5	0.00548	0.53	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.005
223	38.50	38.25	12.71054	91.3	0.00549	0.53	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.005
224	38.25	38.00	12.72698	91.2	0.00550	0.53	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.005
TOT				20.61		55586332.00			4560000.00						
AVG			0.0135				12.19	190.00			2316.10				
CUM				364.46											

********** 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		
129	61.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	
130	61.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	
131	61.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	
132	61.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	
133	60.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	
134	60.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.77	4.77	4.77	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	
135	60.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	
136	60.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	
137	59.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	
138	59.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	
139	59.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	
140	59.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00	
141	58.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00	

142	58.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.76	4.76	4.76	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
143	58.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
144	58.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
145	57.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
146	57.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
147	57.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
148	57.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
149	56.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
150	56.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.75	4.75	4.75	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
151	56.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
152	56.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
153	55.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
154	55.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
155	55.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
156	55.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
157	54.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
158	54.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.74	4.74	4.74	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
159	54.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
160	54.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
161	53.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
162	53.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
163	53.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
164	53.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
165	52.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
166	52.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.73	4.73	4.73	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
167	52.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
168	52.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
169	51.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
170	51.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
171	51.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
172	51.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
173	50.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
174	50.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.72	4.72	4.72	0.03	0.00	0.26	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
175	50.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
176	50.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
177	49.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
178	49.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
179	49.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
180	49.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
181	48.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
182	48.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.71	4.71	4.71	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
183	48.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
184	48.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
185	47.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
186	47.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
187	47.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
188	47.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
189	46.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
190	46.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
191	46.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.70	4.70	4.70	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00

192	46.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
193	45.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
194	45.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
195	45.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
196	45.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
197	44.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
198	44.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
199	44.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.69	4.69	4.69	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
200	44.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
201	43.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
202	43.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
203	43.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
204	43.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
205	42.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
206	42.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
207	42.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.68	4.68	4.68	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
208	42.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
209	41.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
210	41.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
211	41.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
212	41.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
213	40.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
214	40.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
215	40.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.67	4.67	4.67	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
216	40.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
217	39.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
218	39.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
219	39.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
220	39.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
221	38.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
222	38.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
223	38.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
224	38.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.06 0.15 0.00 0.00 0.00 0.00 0.00 2.20 0.02 0.00 0.13 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
129	61.750	32.30	0.00	0.00	0.00	4.21	2.82	0.00	2.82	0.00	1.22	0.11	0.00	1.33	0.00	20.04	0.00	0.	0.00
130	61.500	32.29	0.00	0.00	0.00	4.19	2.79	0.00	2.79	0.00	1.21	0.11	0.00	1.33	0.00	20.08	0.00	0.	0.00
131	61.250	32.29	0.00	0.00	0.00	4.17	2.76	0.00	2.76	0.00	1.21	0.11	0.00	1.33	0.00	20.12	0.00	0.	0.00
132	61.000	32.28	0.00	0.00	0.00	4.15	2.74	0.00	2.74	0.00	1.21	0.11	0.00	1.33	0.00	20.17	0.00	0.	0.00
133	60.750	32.28	0.00	0.00	0.00	4.13	2.71	0.00	2.71	0.00	1.21	0.12	0.00	1.33	0.00	20.21	0.00	0.	0.00
134	60.500	32.27	0.00	0.00	0.00	4.11	2.69	0.00	2.69	0.00	1.21	0.12	0.00	1.32	0.00	20.25	0.00	0.	0.00
135	60.250	32.27	0.00	0.00	0.00	4.10	2.67	0.00	2.67	0.00	1.21	0.12	0.00	1.32	0.00	20.29	0.00	0.	0.00
136	60.000	32.27	0.00	0.00	0.00	4.09	2.65	0.00	2.65	0.00	1.21	0.12	0.00	1.32	0.00	20.33	0.00	0.	0.00
137	59.750	32.26	0.00	0.00	0.00	4.08	2.63	0.00	2.63	0.00	1.21	0.12	0.00	1.32	0.00	20.38	0.00	0.	0.00
138	59.500	32.26	0.00	0.00	0.00	4.07	2.61	0.00	2.61	0.00	1.20	0.12	0.00	1.32	0.00	20.42	0.00	0.	0.00
139	59.250	32.25	0.00	0.00	0.00	4.07	2.59	0.00	2.59	0.00	1.20	0.12	0.00	1.32	0.00	20.46	0.00	0.	0.00

140	59.000	32.25	0.00	0.00	0.00	4.06	2.58	0.00	2.58	0.00	1.20	0.12	0.00	1.32	0.00	20.50	0.00	0.	0.00
141	58.750	32.25	0.00	0.00	0.00	4.06	2.56	0.00	2.56	0.00	1.20	0.12	0.00	1.32	0.00	20.54	0.00	0.	0.00
142	58.500	32.24	0.00	0.00	0.00	4.05	2.55	0.00	2.55	0.00	1.20	0.12	0.00	1.32	0.00	20.58	0.00	0.	0.00
143	58.250	32.24	0.00	0.00	0.00	4.05	2.53	0.00	2.53	0.00	1.20	0.12	0.00	1.32	0.00	20.62	0.00	0.	0.00
144	58.000	32.23	0.00	0.00	0.00	4.05	2.52	0.00	2.52	0.00	1.20	0.12	0.00	1.32	0.00	20.67	0.00	0.	0.00
145	57.750	32.23	0.00	0.00	0.00	4.05	2.51	0.00	2.51	0.00	1.20	0.12	0.00	1.31	0.00	20.71	0.00	0.	0.00
146	57.500	32.22	0.00	0.00	0.00	4.05	2.50	0.00	2.50	0.00	1.20	0.12	0.00	1.31	0.00	20.75	0.00	0.	0.00
147	57.250	32.22	0.00	0.00	0.00	4.06	2.49	0.00	2.49	0.00	1.20	0.12	0.00	1.31	0.00	20.79	0.00	0.	0.00
148	57.000	32.22	0.00	0.00	0.00	4.06	2.48	0.00	2.48	0.00	1.19	0.12	0.00	1.31	0.00	20.83	0.00	0.	0.00
149	56.750	32.21	0.00	0.00	0.00	4.06	2.47	0.00	2.47	0.00	1.19	0.12	0.00	1.31	0.00	20.88	0.00	0.	0.00
150	56.500	32.21	0.00	0.00	0.00	4.07	2.46	0.00	2.46	0.00	1.19	0.12	0.00	1.31	0.00	20.92	0.00	0.	0.00
151	56.250	32.20	0.00	0.00	0.00	4.08	2.45	0.00	2.45	0.00	1.19	0.12	0.00	1.31	0.00	20.96	0.00	0.	0.00
152	56.000	32.20	0.00	0.00	0.00	4.08	2.44	0.00	2.44	0.00	1.19	0.12	0.00	1.31	0.00	21.00	0.00	0.	0.00
153	55.750	32.20	0.00	0.00	0.00	4.09	2.44	0.00	2.44	0.00	1.19	0.12	0.00	1.31	0.00	21.04	0.00	0.	0.00
154	55.500	32.19	0.00	0.00	0.00	4.10	2.43	0.00	2.43	0.00	1.19	0.12	0.00	1.31	0.00	21.08	0.00	0.	0.00
155	55.250	32.19	0.00	0.00	0.00	4.11	2.42	0.00	2.42	0.00	1.19	0.12	0.00	1.30	0.00	21.12	0.00	0.	0.00
156	55.000	32.18	0.00	0.00	0.00	4.12	2.42	0.00	2.42	0.00	1.19	0.12	0.00	1.30	0.00	21.17	0.00	0.	0.00
157	54.750	32.18	0.00	0.00	0.00	4.13	2.41	0.00	2.41	0.00	1.19	0.12	0.00	1.30	0.00	21.21	0.00	0.	0.00
158	54.500	32.17	0.00	0.00	0.00	4.14	2.40	0.00	2.40	0.00	1.18	0.12	0.00	1.30	0.00	21.25	0.00	0.	0.00
159	54.250	32.17	0.00	0.00	0.00	4.15	2.40	0.00	2.40	0.00	1.18	0.12	0.00	1.30	0.00	21.29	0.00	0.	0.00
160	54.000	32.17	0.00	0.00	0.00	4.16	2.39	0.00	2.39	0.00	1.18	0.12	0.00	1.30	0.00	21.33	0.00	0.	0.00
161	53.750	32.16	0.00	0.00	0.00	4.17	2.39	0.00	2.39	0.00	1.18	0.12	0.00	1.30	0.00	21.38	0.00	0.	0.00
162	53.500	32.16	0.00	0.00	0.00	4.18	2.38	0.00	2.38	0.00	1.18	0.12	0.00	1.30	0.00	21.42	0.00	0.	0.00
163	53.250	32.15	0.00	0.00	0.00	4.20	2.38	0.00	2.38	0.00	1.18	0.12	0.00	1.30	0.00	21.46	0.00	0.	0.00
164	53.000	32.15	0.00	0.00	0.00	4.21	2.38	0.00	2.38	0.00	1.18	0.12	0.00	1.30	0.00	21.50	0.00	0.	0.00
165	52.750	32.15	0.00	0.00	0.00	4.22	2.37	0.00	2.37	0.00	1.18	0.12	0.00	1.29	0.00	21.54	0.00	0.	0.00
166	52.500	32.14	0.00	0.00	0.00	4.24	2.37	0.00	2.37	0.00	1.18	0.12	0.00	1.29	0.00	21.58	0.00	0.	0.00
167	52.250	32.14	0.00	0.00	0.00	4.25	2.37	0.00	2.37	0.00	1.18	0.12	0.00	1.29	0.00	21.62	0.00	0.	0.00
168	52.000	32.13	0.00	0.00	0.00	4.27	2.36	0.00	2.36	0.00	1.18	0.12	0.00	1.29	0.00	21.67	0.00	0.	0.00
169	51.750	32.13	0.00	0.00	0.00	4.28	2.36	0.00	2.36	0.00	1.17	0.12	0.00	1.29	0.00	21.71	0.00	0.	0.00
170	51.500	32.12	0.00	0.00	0.00	4.30	2.36	0.00	2.36	0.00	1.17	0.12	0.00	1.29	0.00	21.75	0.00	0.	0.00
171	51.250	32.12	0.00	0.00	0.00	4.31	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.79	0.00	0.	0.00
172	51.000	32.12	0.00	0.00	0.00	4.33	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.83	0.00	0.	0.00
173	50.750	32.11	0.00	0.00	0.00	4.35	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.88	0.00	0.	0.00
174	50.500	32.11	0.00	0.00	0.00	4.36	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.92	0.00	0.	0.00
175	50.250	32.10	0.00	0.00	0.00	4.38	2.35	0.00	2.35	0.00	1.17	0.12	0.00	1.29	0.00	21.96	0.00	0.	0.00
176	50.000	32.10	0.00	0.00	0.00	4.40	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.00	0.00	0.	0.00
177	49.750	32.10	0.00	0.00	0.00	4.42	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.04	0.00	0.	0.00
178	49.500	32.09	0.00	0.00	0.00	4.43	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.08	0.00	0.	0.00
179	49.250	32.09	0.00	0.00	0.00	4.45	2.34	0.00	2.34	0.00	1.17	0.12	0.00	1.28	0.00	22.12	0.00	0.	0.00
180	49.000	32.08	0.00	0.00	0.00	4.52	2.38	0.00	2.38	0.00	1.17	0.11	0.00	1.28	0.00	22.17	0.00	0.	0.00
181	48.750	32.08	0.00	0.00	0.00	5.17	2.90	0.00	2.90	0.00	1.19	0.11	0.00	1.31	0.00	22.21	0.00	0.	0.00
182	48.500	32.08	0.00	0.00	0.00	5.15	2.88	0.00	2.88	0.00	1.19	0.11	0.00	1.31	0.00	22.25	0.00	0.	0.00
183	48.250	32.07	0.00	0.00	0.00	5.14	2.85	0.00	2.85	0.00	1.19	0.11	0.00	1.30	0.00	22.29	0.00	0.	0.00
184	48.000	32.07	0.00	0.00	0.00	5.12	2.82	0.00	2.82	0.00	1.19	0.11	0.00	1.30	0.00	22.33	0.00	0.	0.00
185	47.750	32.06	0.00	0.00	0.00	5.11	2.80	0.00	2.80	0.00	1.19	0.11	0.00	1.30	0.00	22.38	0.00	0.	0.00
186	47.500	32.06	0.00	0.00	0.00	5.09	2.78	0.00	2.78	0.00	1.19	0.11	0.00	1.30	0.00	22.42	0.00	0.	0.00
187	47.250	32.05	0.00	0.00	0.00	5.08	2.76	0.00	2.76	0.00	1.19	0.11	0.00	1.30	0.00	22.46	0.00	0.	0.00
188	47.000	32.05	0.00	0.00	0.00	5.07	2.74	0.00	2.74	0.00	1.19	0.11	0.00	1.30	0.00	22.50	0.00	0.	0.00
189	46.750	32.05	0.00	0.00	0.00	5.07	2.72	0.00	2.72	0.00	1.19	0.11	0.00	1.30	0.00	22.54	0.00	0.	0.00

190	46.500	32.04	0.00	0.00	0.00	5.06	2.70	0.00	2.70	0.00	1.19	0.11	0.00	1.30	0.00	22.58	0.00	0.	0.00
191	46.250	32.04	0.00	0.00	0.00	5.06	2.68	0.00	2.68	0.00	1.19	0.11	0.00	1.30	0.00	22.62	0.00	0.	0.00
192	46.000	32.03	0.00	0.00	0.00	5.05	2.66	0.00	2.66	0.00	1.18	0.11	0.00	1.30	0.00	22.67	0.00	0.	0.00
193	45.750	32.03	0.00	0.00	0.00	5.05	2.65	0.00	2.65	0.00	1.18	0.11	0.00	1.30	0.00	22.71	0.00	0.	0.00
194	45.500	32.02	0.00	0.00	0.00	5.05	2.63	0.00	2.63	0.00	1.18	0.11	0.00	1.30	0.00	22.75	0.00	0.	0.00
195	45.250	32.02	0.00	0.00	0.00	5.05	2.62	0.00	2.62	0.00	1.18	0.11	0.00	1.29	0.00	22.79	0.00	0.	0.00
196	45.000	32.02	0.00	0.00	0.00	5.05	2.60	0.00	2.60	0.00	1.18	0.11	0.00	1.29	0.00	22.83	0.00	0.	0.00
197	44.750	32.01	0.00	0.00	0.00	5.05	2.59	0.00	2.59	0.00	1.18	0.11	0.00	1.29	0.00	22.88	0.00	0.	0.00
198	44.500	32.01	0.00	0.00	0.00	5.05	2.58	0.00	2.58	0.00	1.18	0.11	0.00	1.29	0.00	22.92	0.00	0.	0.00
199	44.250	32.00	0.00	0.00	0.00	5.06	2.57	0.00	2.57	0.00	1.18	0.11	0.00	1.29	0.00	22.96	0.00	0.	0.00
200	44.000	32.00	0.00	0.00	0.00	5.06	2.55	0.00	2.55	0.00	1.18	0.11	0.00	1.29	0.00	23.00	0.00	0.	0.00
201	43.750	32.00	0.00	0.00	0.00	5.07	2.54	0.00	2.54	0.00	1.18	0.11	0.00	1.29	0.00	23.04	0.00	0.	0.00
202	43.500	31.99	0.00	0.00	0.00	5.07	2.53	0.00	2.53	0.00	1.18	0.11	0.00	1.29	0.00	23.08	0.00	0.	0.00
203	43.250	31.99	0.00	0.00	0.00	5.08	2.52	0.00	2.52	0.00	1.18	0.11	0.00	1.29	0.00	23.12	0.00	0.	0.00
204	43.000	31.98	0.00	0.00	0.00	5.09	2.51	0.00	2.51	0.00	1.18	0.11	0.00	1.29	0.00	23.17	0.00	0.	0.00
205	42.750	31.98	0.00	0.00	0.00	5.10	2.51	0.00	2.51	0.00	1.17	0.11	0.00	1.29	0.00	23.21	0.00	0.	0.00
206	42.500	31.98	0.00	0.00	0.00	5.10	2.50	0.00	2.50	0.00	1.17	0.11	0.00	1.29	0.00	23.25	0.00	0.	0.00
207	42.250	31.97	0.00	0.00	0.00	5.11	2.49	0.00	2.49	0.00	1.17	0.11	0.00	1.28	0.00	23.29	0.00	0.	0.00
208	42.000	31.97	0.00	0.00	0.00	5.12	2.48	0.00	2.48	0.00	1.17	0.11	0.00	1.28	0.00	23.33	0.00	0.	0.00
209	41.750	31.96	0.00	0.00	0.00	5.13	2.47	0.00	2.47	0.00	1.17	0.11	0.00	1.28	0.00	23.38	0.00	0.	0.00
210	41.500	31.96	0.00	0.00	0.00	5.15	2.47	0.00	2.47	0.00	1.17	0.11	0.00	1.28	0.00	23.42	0.00	0.	0.00
211	41.250	31.95	0.00	0.00	0.00	5.16	2.46	0.00	2.46	0.00	1.17	0.11	0.00	1.28	0.00	23.46	0.00	0.	0.00
212	41.000	31.95	0.00	0.00	0.00	5.17	2.46	0.00	2.46	0.00	1.17	0.11	0.00	1.28	0.00	23.50	0.00	0.	0.00
213	40.750	31.95	0.00	0.00	0.00	5.18	2.45	0.00	2.45	0.00	1.17	0.11	0.00	1.28	0.00	23.54	0.00	0.	0.00
214	40.500	31.94	0.00	0.00	0.00	5.20	2.44	0.00	2.44	0.00	1.17	0.11	0.00	1.28	0.00	23.58	0.00	0.	0.00
215	40.250	31.94	0.00	0.00	0.00	5.21	2.44	0.00	2.44	0.00	1.17	0.11	0.00	1.28	0.00	23.62	0.00	0.	0.00
216	40.000	31.93	0.00	0.00	0.00	5.22	2.43	0.00	2.43	0.00	1.17	0.11	0.00	1.28	0.00	23.67	0.00	0.	0.00
217	39.750	31.93	0.00	0.00	0.00	5.24	2.43	0.00	2.43	0.00	1.17	0.11	0.00	1.28	0.00	23.71	0.00	0.	0.00
218	39.500	31.92	0.00	0.00	0.00	5.25	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.28	0.00	23.75	0.00	0.	0.00
219	39.250	31.92	0.00	0.00	0.00	5.27	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.28	0.00	23.79	0.00	0.	0.00
220	39.000	31.92	0.00	0.00	0.00	5.28	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.27	0.00	23.83	0.00	0.	0.00
221	38.750	31.91	0.00	0.00	0.00	5.30	2.41	0.00	2.41	0.00	1.16	0.11	0.00	1.27	0.00	23.88	0.00	0.	0.00
222	38.500	31.91	0.00	0.00	0.00	5.34	2.41	0.00	2.41	0.00	1.16	0.11	0.00	1.27	0.00	23.92	0.00	0.	0.00
223	38.250	31.90	0.00	0.00	0.00	5.37	2.42	0.00	2.42	0.00	1.16	0.11	0.00	1.27	0.00	23.96	0.00	0.	0.00
224	38.000	31.90	0.00	0.00	0.00	5.33	2.58	0.00	2.58	0.00	1.17	0.11	0.00	1.28	0.00	24.00	0.00	0.	0.00

FINAL REPORT ICWW LA-QUAL calibration for Gulf ICWW and Bayou Black
REACH NO. 8 Gulf ICWW FTN Field Survey calibration

********** 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 µg/L	NH3	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
405	UPR RCH	12.72698	31.90	0.00	0.00	0.00	5.33	2.58	0.00	2.58	0.00	1.17	0.11	0.00	0.00	24.00	0.00	0.00
405	TRIB	2.22907	31.90	0.00	0.00	0.00	3.00	7.06	0.00	7.06	0.00	1.44	0.12	0.00	0.00	24.00	0.00	0.00
EACH	INCR	0.02142	32.10	0.00	0.00	0.00	7.22	6.67	0.00			1.40	0.10	0.00	0.00	0.00	0.00	
413	WSTLD	1.41564	31.20	0.00	0.00	0.00	2.30	9.40	0.00	9.40	0.00	1.63	0.14	0.00	0.00	0.00	0.00	0.00
413	WSTLD	-0.96263	31.91	0.00	0.00	0.00	5.08	3.95	0.00	3.95	0.00	1.23	0.11	0.00	0.00	23.82	0.00	0.00
417	WSTLD	0.00001	31.20	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
461	WSTLD	0.00005	31.20	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
467	WSTLD	0.00344	31.20	0.00	0.00	0.00	5.00	70.80	0.00	70.80	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
469	WSTLD	4.16197	31.20	0.00	0.00	0.00	3.89	9.80	0.00	9.80	0.00	1.34	0.10	0.00	0.00	0.00	0.00	0.00
469	WSTLD	-0.53794	31.99	0.00	0.00	0.00	4.31	4.91	0.00	4.91	0.00	1.20	0.11	0.00	0.00	22.72	0.00	0.00

493	WSTLD	0.45300	31.20	0.00	0.00	0.00	3.34	8.70	0.00	8.70	0.00	0.90	0.10	0.00	0.00	0.00	0.00	0.00
525	WSTLD	1.21745	31.20	0.00	0.00	0.00	3.34	8.70	0.00	8.70	0.00	0.90	0.10	0.00	0.00	0.00	0.00	0.00
541	WSTLD	-0.39638	32.08	0.00	0.00	0.00	3.33	3.93	0.00	3.93	0.00	1.14	0.12	0.00	0.00	21.30	0.00	0.00
549	WSTLD	0.00004	31.20	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL VOLUME m³	TIDAL PRISM m/s	DISPRSN VELO m²/s	MEAN VELO m/s
405	38.00	37.75	14.97747	89.9	0.00751	0.39	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
406	37.75	37.50	14.99889	89.7	0.00752	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
407	37.50	37.25	15.02032	89.6	0.00753	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
408	37.25	37.00	15.04174	89.5	0.00754	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
409	37.00	36.75	15.06316	89.4	0.00755	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
410	36.75	36.50	15.08458	89.2	0.00756	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
411	36.50	36.25	15.10600	89.1	0.00757	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
412	36.25	36.00	15.12742	89.0	0.00759	0.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
413	36.00	35.75	15.60185	89.8	0.00782	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
414	35.75	35.50	15.62327	89.7	0.00783	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
415	35.50	35.25	15.64470	89.6	0.00784	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
416	35.25	35.00	15.66612	89.4	0.00786	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
417	35.00	34.75	15.68755	89.3	0.00787	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
418	34.75	34.50	15.70897	89.2	0.00788	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
419	34.50	34.25	15.73039	89.1	0.00789	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
420	34.25	34.00	15.75181	89.0	0.00790	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
421	34.00	33.75	15.77323	88.8	0.00791	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
422	33.75	33.50	15.79466	88.7	0.00792	0.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
423	33.50	33.25	15.81608	88.6	0.00793	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
424	33.25	33.00	15.83750	88.5	0.00794	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
425	33.00	32.75	15.85892	88.3	0.00795	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
426	32.75	32.50	15.88034	88.2	0.00796	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
427	32.50	32.25	15.90176	88.1	0.00797	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
428	32.25	32.00	15.92318	88.0	0.00798	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
429	32.00	31.75	15.94461	87.9	0.00800	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
430	31.75	31.50	15.96603	87.8	0.00801	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
431	31.50	31.25	15.98745	87.6	0.00802	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
432	31.25	31.00	16.00887	87.5	0.00803	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
433	31.00	30.75	16.03029	87.4	0.00804	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
434	30.75	30.50	16.05171	87.3	0.00805	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
435	30.50	30.25	16.07313	87.2	0.00806	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
436	30.25	30.00	16.09455	87.1	0.00807	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
437	30.00	29.75	16.11598	86.9	0.00808	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
438	29.75	29.50	16.13740	86.8	0.00809	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
439	29.50	29.25	16.15882	86.7	0.00810	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
440	29.25	29.00	16.18024	86.6	0.00811	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
441	29.00	28.75	16.20166	86.5	0.00812	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
442	28.75	28.50	16.22308	86.4	0.00813	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
443	28.50	28.25	16.24450	86.3	0.00815	0.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
444	28.25	28.00	16.26593	86.1	0.00816	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
445	28.00	27.75	16.28735	86.0	0.00817	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008

446	27.75	27.50	16.30877	85.9	0.00818	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
447	27.50	27.25	16.33019	85.8	0.00819	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
448	27.25	27.00	16.35161	85.7	0.00820	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
449	27.00	26.75	16.37303	85.6	0.00821	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
450	26.75	26.50	16.39445	85.5	0.00822	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
451	26.50	26.25	16.41588	85.4	0.00823	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
452	26.25	26.00	16.43730	85.2	0.00824	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
453	26.00	25.75	16.45872	85.1	0.00825	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
454	25.75	25.50	16.48014	85.0	0.00826	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
455	25.50	25.25	16.50156	84.9	0.00827	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
456	25.25	25.00	16.52298	84.8	0.00829	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
457	25.00	24.75	16.54440	84.7	0.00830	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
458	24.75	24.50	16.56583	84.6	0.00831	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
459	24.50	24.25	16.58725	84.5	0.00832	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
460	24.25	24.00	16.60867	84.4	0.00833	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
461	24.00	23.75	16.63014	84.3	0.00834	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
462	23.75	23.50	16.65156	84.1	0.00835	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
463	23.50	23.25	16.67298	84.0	0.00836	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
464	23.25	23.00	16.69440	83.9	0.00837	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
465	23.00	22.75	16.71583	83.8	0.00838	0.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
466	22.75	22.50	16.73725	83.7	0.00839	0.34	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
467	22.50	22.25	16.76211	83.6	0.00841	0.34	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
468	22.25	22.00	16.78353	83.5	0.00842	0.34	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.008
469	22.00	21.75	20.42898	86.7	0.01024	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
470	21.75	21.50	20.45040	86.6	0.01025	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
471	21.50	21.25	20.47182	86.5	0.01027	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
472	21.25	21.00	20.49325	86.4	0.01028	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
473	21.00	20.75	20.51467	86.3	0.01029	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
474	20.75	20.50	20.53609	86.2	0.01030	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
475	20.50	20.25	20.55751	86.2	0.01031	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
476	20.25	20.00	20.57893	86.1	0.01032	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
477	20.00	19.75	20.60035	86.0	0.01033	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
478	19.75	19.50	20.62177	85.9	0.01034	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
479	19.50	19.25	20.64320	85.8	0.01035	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
480	19.25	19.00	20.66462	85.7	0.01036	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
481	19.00	18.75	20.68604	85.6	0.01037	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
482	18.75	18.50	20.70746	85.5	0.01038	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
483	18.50	18.25	20.72888	85.4	0.01039	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
484	18.25	18.00	20.75030	85.4	0.01041	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
485	18.00	17.75	20.77172	85.3	0.01042	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
486	17.75	17.50	20.79315	85.2	0.01043	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
487	17.50	17.25	20.81457	85.1	0.01044	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
488	17.25	17.00	20.83599	85.0	0.01045	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
489	17.00	16.75	20.85741	84.9	0.01046	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
490	16.75	16.50	20.87883	84.8	0.01047	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
491	16.50	16.25	20.90025	84.7	0.01048	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
492	16.25	16.00	20.92167	84.7	0.01049	0.28	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.010
493	16.00	15.75	21.39610	84.9	0.01073	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
494	15.75	15.50	21.41752	84.8	0.01074	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
495	15.50	15.25	21.43894	84.7	0.01075	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011

496	15.25	15.00	21.46036	84.6	0.01076	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
497	15.00	14.75	21.48178	84.6	0.01077	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
498	14.75	14.50	21.50320	84.5	0.01078	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
499	14.50	14.25	21.52462	84.4	0.01079	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
500	14.25	14.00	21.54605	84.3	0.01080	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
501	14.00	13.75	21.56747	84.2	0.01081	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
502	13.75	13.50	21.58889	84.1	0.01083	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
503	13.50	13.25	21.61031	84.0	0.01084	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
504	13.25	13.00	21.63173	84.0	0.01085	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
505	13.00	12.75	21.65315	83.9	0.01086	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
506	12.75	12.50	21.67457	83.8	0.01087	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
507	12.50	12.25	21.69600	83.7	0.01088	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
508	12.25	12.00	21.71742	83.6	0.01089	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
509	12.00	11.75	21.73884	83.6	0.01090	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
510	11.75	11.50	21.76026	83.5	0.01091	0.27	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
511	11.50	11.25	21.78168	83.4	0.01092	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
512	11.25	11.00	21.80310	83.3	0.01093	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
513	11.00	10.75	21.82452	83.2	0.01094	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
514	10.75	10.50	21.84595	83.1	0.01095	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
515	10.50	10.25	21.86737	83.1	0.01097	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
516	10.25	10.00	21.88879	83.0	0.01098	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
517	10.00	9.75	21.91021	82.9	0.01099	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
518	9.75	9.50	21.93163	82.8	0.01100	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
519	9.50	9.25	21.95305	82.7	0.01101	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
520	9.25	9.00	21.97447	82.7	0.01102	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
521	9.00	8.75	21.99590	82.6	0.01103	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
522	8.75	8.50	22.01732	82.5	0.01104	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
523	8.50	8.25	22.03874	82.4	0.01105	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
524	8.25	8.00	22.06016	82.3	0.01106	0.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.011
525	8.00	7.75	23.29903	83.2	0.01168	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
526	7.75	7.50	23.32045	83.1	0.01169	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
527	7.50	7.25	23.34187	83.0	0.01170	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
528	7.25	7.00	23.36329	83.0	0.01172	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
529	7.00	6.75	23.38472	82.9	0.01173	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
530	6.75	6.50	23.40614	82.8	0.01174	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
531	6.50	6.25	23.42756	82.7	0.01175	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
532	6.25	6.00	23.44898	82.7	0.01176	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
533	6.00	5.75	23.47040	82.6	0.01177	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
534	5.75	5.50	23.49182	82.5	0.01178	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
535	5.50	5.25	23.51324	82.4	0.01179	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
536	5.25	5.00	23.53467	82.4	0.01180	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
537	5.00	4.75	23.55609	82.3	0.01181	0.24	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
538	4.75	4.50	23.57751	82.2	0.01182	0.24	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
539	4.50	4.25	23.59893	82.1	0.01183	0.24	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
540	4.25	4.00	23.62035	82.1	0.01184	0.24	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
541	4.00	3.75	23.24539	82.0	0.01166	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
542	3.75	3.50	23.26682	81.9	0.01167	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
543	3.50	3.25	23.28824	81.8	0.01168	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
544	3.25	3.00	23.30966	81.8	0.01169	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012
545	3.00	2.75	23.33108	81.7	0.01170	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012

546	2.75	2.50	23.35250	81.6	0.01171	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012			
547	2.50	2.25	23.37392	81.5	0.01172	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012			
548	2.25	2.00	23.39534	81.5	0.01173	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012			
549	2.00	1.75	23.41681	81.4	0.01174	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012			
550	1.75	1.50	23.43823	81.3	0.01175	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012			
551	1.50	1.25	23.45965	81.2	0.01176	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012			
552	1.25	1.00	23.48107	81.2	0.01177	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012			
553	1.00	0.75	23.50249	81.1	0.01179	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012			
554	0.75	0.50	23.52391	81.0	0.01180	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012			
555	0.50	0.25	23.54533	80.9	0.01181	0.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012			
556	0.25	0.00	23.56676	80.9	0.01182	0.24	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.012			
TOT				46.11		75781128.00			5920400.00									
AVG				0.0095			12.80	155.80			1994.24							
CUM				410.57														

********** 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			
405	37.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	
406	37.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	
407	37.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	
408	37.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
409	36.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
410	36.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
411	36.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
412	36.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
413	35.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
414	35.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
415	35.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
416	35.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
417	34.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
418	34.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
419	34.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
420	34.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
421	33.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
422	33.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
423	33.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
424	33.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.27	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
425	32.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
426	32.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
427	32.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
428	32.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
429	31.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
430	31.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
431	31.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
432	31.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	
433	30.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	
434	30.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	
435	30.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	
436	30.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	

437	29.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
438	29.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
439	29.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
440	29.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
441	28.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
442	28.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
443	28.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
444	28.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
445	27.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
446	27.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
447	27.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
448	27.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
449	26.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
450	26.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
451	26.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
452	26.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
453	25.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
454	25.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
455	25.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
456	25.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
457	24.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
458	24.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
459	24.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
460	24.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
461	23.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
462	23.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
463	23.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
464	23.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
465	22.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
466	22.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
467	22.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
468	22.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
469	21.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
470	21.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
471	21.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
472	21.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.26	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
473	20.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
474	20.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
475	20.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
476	20.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
477	19.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
478	19.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
479	19.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
480	19.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
481	18.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
482	18.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
483	18.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
484	18.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
485	17.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
486	17.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00

487	17.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
488	17.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
489	16.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
490	16.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
491	16.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
492	16.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
493	15.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
494	15.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
495	15.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
496	15.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
497	14.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
498	14.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
499	14.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
500	14.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
501	13.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
502	13.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
503	13.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
504	13.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
505	12.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
506	12.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
507	12.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
508	12.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
509	11.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
510	11.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
511	11.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
512	11.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
513	10.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
514	10.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
515	10.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
516	10.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
517	9.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
518	9.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
519	9.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
520	9.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
521	8.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
522	8.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
523	8.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
524	8.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
525	7.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
526	7.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
527	7.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
528	7.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
529	6.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
530	6.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
531	6.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
532	6.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
533	5.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
534	5.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
535	5.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
536	5.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00

537	4.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
538	4.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
539	4.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
540	4.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
541	3.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
542	3.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
543	3.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
544	3.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
545	2.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
546	2.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
547	2.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
548	2.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
549	1.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
550	1.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
551	1.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
552	1.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
553	0.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
554	0.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
555	0.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.24	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
556	0.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.25	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.05	0.15	0.00	0.00	0.00	0.00	0.00	0.70			0.02	0.00	0.13	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/m³	PHOS	CHL A #/100mL	MACRO	COLI	NCM
405	37.750	31.90	0.00	0.00	0.00	5.13	3.16	0.00	3.16	0.00	1.20	0.11	0.00	1.31	0.00	23.98	0.00	0.	0.00	
406	37.500	31.90	0.00	0.00	0.00	5.19	3.22	0.00	3.22	0.00	1.20	0.11	0.00	1.31	0.00	23.96	0.00	0.	0.00	
407	37.250	31.90	0.00	0.00	0.00	5.23	3.28	0.00	3.28	0.00	1.20	0.11	0.00	1.31	0.00	23.94	0.00	0.	0.00	
408	37.000	31.91	0.00	0.00	0.00	5.27	3.33	0.00	3.33	0.00	1.19	0.11	0.00	1.31	0.00	23.92	0.00	0.	0.00	
409	36.750	31.91	0.00	0.00	0.00	5.31	3.38	0.00	3.38	0.00	1.19	0.11	0.00	1.31	0.00	23.90	0.00	0.	0.00	
410	36.500	31.91	0.00	0.00	0.00	5.33	3.43	0.00	3.43	0.00	1.19	0.11	0.00	1.31	0.00	23.88	0.00	0.	0.00	
411	36.250	31.91	0.00	0.00	0.00	5.32	3.49	0.00	3.49	0.00	1.20	0.11	0.00	1.31	0.00	23.86	0.00	0.	0.00	
412	36.000	31.91	0.00	0.00	0.00	5.27	3.62	0.00	3.62	0.00	1.20	0.11	0.00	1.31	0.00	23.84	0.00	0.	0.00	
413	35.750	31.91	0.00	0.00	0.00	5.08	3.95	0.00	3.95	0.00	1.23	0.11	0.00	1.34	0.00	23.82	0.00	0.	0.00	
414	35.500	31.91	0.00	0.00	0.00	5.06	3.95	0.00	3.95	0.00	1.22	0.11	0.00	1.34	0.00	23.80	0.00	0.	0.00	
415	35.250	31.91	0.00	0.00	0.00	5.05	3.94	0.00	3.94	0.00	1.22	0.12	0.00	1.34	0.00	23.78	0.00	0.	0.00	
416	35.000	31.92	0.00	0.00	0.00	5.04	3.93	0.00	3.93	0.00	1.22	0.12	0.00	1.34	0.00	23.76	0.00	0.	0.00	
417	34.750	31.92	0.00	0.00	0.00	5.02	3.93	0.00	3.93	0.00	1.22	0.12	0.00	1.34	0.00	23.74	0.00	0.	0.00	
418	34.500	31.92	0.00	0.00	0.00	5.01	3.92	0.00	3.92	0.00	1.22	0.12	0.00	1.33	0.00	23.72	0.00	0.	0.00	
419	34.250	31.92	0.00	0.00	0.00	5.00	3.91	0.00	3.91	0.00	1.22	0.12	0.00	1.33	0.00	23.70	0.00	0.	0.00	
420	34.000	31.92	0.00	0.00	0.00	4.99	3.91	0.00	3.91	0.00	1.22	0.12	0.00	1.33	0.00	23.68	0.00	0.	0.00	
421	33.750	31.92	0.00	0.00	0.00	4.98	3.90	0.00	3.90	0.00	1.21	0.12	0.00	1.33	0.00	23.66	0.00	0.	0.00	
422	33.500	31.92	0.00	0.00	0.00	4.97	3.90	0.00	3.90	0.00	1.21	0.12	0.00	1.33	0.00	23.64	0.00	0.	0.00	
423	33.250	31.92	0.00	0.00	0.00	4.96	3.90	0.00	3.90	0.00	1.21	0.12	0.00	1.33	0.00	23.62	0.00	0.	0.00	
424	33.000	31.93	0.00	0.00	0.00	4.95	3.89	0.00	3.89	0.00	1.21	0.12	0.00	1.33	0.00	23.61	0.00	0.	0.00	
425	32.750	31.93	0.00	0.00	0.00	4.94	3.89	0.00	3.89	0.00	1.21	0.12	0.00	1.33	0.00	23.59	0.00	0.	0.00	
426	32.500	31.93	0.00	0.00	0.00	4.93	3.89	0.00	3.89	0.00	1.21	0.12	0.00	1.32	0.00	23.57	0.00	0.	0.00	
427	32.250	31.93	0.00	0.00	0.00	4.92	3.88	0.00	3.88	0.00	1.21	0.12	0.00	1.32	0.00	23.55	0.00	0.	0.00	
428	32.000	31.93	0.00	0.00	0.00	4.91	3.88	0.00	3.88	0.00	1.21	0.12	0.00	1.32	0.00	23.53	0.00	0.	0.00	
429	31.750	31.93	0.00	0.00	0.00	4.90	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	23.51	0.00	0.	0.00	

430	31.500	31.93	0.00	0.00	0.00	4.89	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	23.49	0.00	0.	0.00
431	31.250	31.94	0.00	0.00	0.00	4.88	3.88	0.00	3.88	0.00	1.20	0.12	0.00	1.32	0.00	23.47	0.00	0.	0.00
432	31.000	31.94	0.00	0.00	0.00	4.87	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.32	0.00	23.45	0.00	0.	0.00
433	30.750	31.94	0.00	0.00	0.00	4.87	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.32	0.00	23.43	0.00	0.	0.00
434	30.500	31.94	0.00	0.00	0.00	4.86	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.31	0.00	23.41	0.00	0.	0.00
435	30.250	31.94	0.00	0.00	0.00	4.85	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.31	0.00	23.39	0.00	0.	0.00
436	30.000	31.94	0.00	0.00	0.00	4.84	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.31	0.00	23.37	0.00	0.	0.00
437	29.750	31.94	0.00	0.00	0.00	4.83	3.87	0.00	3.87	0.00	1.20	0.12	0.00	1.31	0.00	23.35	0.00	0.	0.00
438	29.500	31.94	0.00	0.00	0.00	4.82	3.87	0.00	3.87	0.00	1.19	0.12	0.00	1.31	0.00	23.33	0.00	0.	0.00
439	29.250	31.95	0.00	0.00	0.00	4.82	3.86	0.00	3.86	0.00	1.19	0.12	0.00	1.31	0.00	23.31	0.00	0.	0.00
440	29.000	31.95	0.00	0.00	0.00	4.81	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.31	0.00	23.29	0.00	0.	0.00
441	28.750	31.95	0.00	0.00	0.00	4.80	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.31	0.00	23.27	0.00	0.	0.00
442	28.500	31.95	0.00	0.00	0.00	4.79	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.30	0.00	23.25	0.00	0.	0.00
443	28.250	31.95	0.00	0.00	0.00	4.78	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.30	0.00	23.23	0.00	0.	0.00
444	28.000	31.95	0.00	0.00	0.00	4.78	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.30	0.00	23.21	0.00	0.	0.00
445	27.750	31.95	0.00	0.00	0.00	4.77	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.30	0.00	23.19	0.00	0.	0.00
446	27.500	31.96	0.00	0.00	0.00	4.76	3.86	0.00	3.86	0.00	1.19	0.11	0.00	1.30	0.00	23.17	0.00	0.	0.00
447	27.250	31.96	0.00	0.00	0.00	4.75	3.86	0.00	3.86	0.00	1.18	0.11	0.00	1.30	0.00	23.15	0.00	0.	0.00
448	27.000	31.96	0.00	0.00	0.00	4.74	3.86	0.00	3.86	0.00	1.18	0.11	0.00	1.30	0.00	23.13	0.00	0.	0.00
449	26.750	31.96	0.00	0.00	0.00	4.73	3.86	0.00	3.86	0.00	1.18	0.11	0.00	1.30	0.00	23.11	0.00	0.	0.00
450	26.500	31.96	0.00	0.00	0.00	4.73	3.86	0.00	3.86	0.00	1.18	0.11	0.00	1.30	0.00	23.09	0.00	0.	0.00
451	26.250	31.96	0.00	0.00	0.00	4.72	3.86	0.00	3.86	0.00	1.18	0.11	0.00	1.30	0.00	23.07	0.00	0.	0.00
452	26.000	31.96	0.00	0.00	0.00	4.71	3.85	0.00	3.85	0.00	1.18	0.11	0.00	1.29	0.00	23.05	0.00	0.	0.00
453	25.750	31.96	0.00	0.00	0.00	4.70	3.85	0.00	3.85	0.00	1.18	0.11	0.00	1.29	0.00	23.03	0.00	0.	0.00
454	25.500	31.97	0.00	0.00	0.00	4.69	3.85	0.00	3.85	0.00	1.18	0.11	0.00	1.29	0.00	23.01	0.00	0.	0.00
455	25.250	31.97	0.00	0.00	0.00	4.69	3.85	0.00	3.85	0.00	1.18	0.11	0.00	1.29	0.00	22.99	0.00	0.	0.00
456	25.000	31.97	0.00	0.00	0.00	4.68	3.85	0.00	3.85	0.00	1.18	0.11	0.00	1.29	0.00	22.97	0.00	0.	0.00
457	24.750	31.97	0.00	0.00	0.00	4.67	3.85	0.00	3.85	0.00	1.18	0.11	0.00	1.29	0.00	22.95	0.00	0.	0.00
458	24.500	31.97	0.00	0.00	0.00	4.66	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.29	0.00	22.93	0.00	0.	0.00
459	24.250	31.97	0.00	0.00	0.00	4.65	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.29	0.00	22.91	0.00	0.	0.00
460	24.000	31.97	0.00	0.00	0.00	4.64	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.29	0.00	22.89	0.00	0.	0.00
461	23.750	31.97	0.00	0.00	0.00	4.64	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.29	0.00	22.88	0.00	0.	0.00
462	23.500	31.98	0.00	0.00	0.00	4.63	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.28	0.00	22.86	0.00	0.	0.00
463	23.250	31.98	0.00	0.00	0.00	4.62	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.28	0.00	22.84	0.00	0.	0.00
464	23.000	31.98	0.00	0.00	0.00	4.61	3.85	0.00	3.85	0.00	1.17	0.11	0.00	1.28	0.00	22.82	0.00	0.	0.00
465	22.750	31.98	0.00	0.00	0.00	4.60	3.86	0.00	3.86	0.00	1.17	0.11	0.00	1.28	0.00	22.80	0.00	0.	0.00
466	22.500	31.98	0.00	0.00	0.00	4.58	3.87	0.00	3.87	0.00	1.17	0.11	0.00	1.28	0.00	22.78	0.00	0.	0.00
467	22.250	31.98	0.00	0.00	0.00	4.55	3.94	0.00	3.94	0.00	1.17	0.11	0.00	1.28	0.00	22.76	0.00	0.	0.00
468	22.000	31.98	0.00	0.00	0.00	4.48	4.15	0.00	4.15	0.00	1.18	0.11	0.00	1.29	0.00	22.74	0.00	0.	0.00
469	21.750	31.99	0.00	0.00	0.00	4.31	4.91	0.00	4.91	0.00	1.20	0.11	0.00	1.31	0.00	22.72	0.00	0.	0.00
470	21.500	31.99	0.00	0.00	0.00	4.24	4.84	0.00	4.84	0.00	1.20	0.11	0.00	1.31	0.00	22.70	0.00	0.	0.00
471	21.250	31.99	0.00	0.00	0.00	4.18	4.77	0.00	4.77	0.00	1.20	0.11	0.00	1.31	0.00	22.68	0.00	0.	0.00
472	21.000	31.99	0.00	0.00	0.00	4.12	4.71	0.00	4.71	0.00	1.20	0.11	0.00	1.31	0.00	22.66	0.00	0.	0.00
473	20.750	31.99	0.00	0.00	0.00	4.07	4.65	0.00	4.65	0.00	1.20	0.11	0.00	1.31	0.00	22.64	0.00	0.	0.00
474	20.500	31.99	0.00	0.00	0.00	4.02	4.59	0.00	4.59	0.00	1.20	0.11	0.00	1.31	0.00	22.62	0.00	0.	0.00
475	20.250	31.99	0.00	0.00	0.00	3.97	4.54	0.00	4.54	0.00	1.19	0.11	0.00	1.31	0.00	22.60	0.00	0.	0.00
476	20.000	31.99	0.00	0.00	0.00	3.93	4.50	0.00	4.50	0.00	1.19	0.11	0.00	1.31	0.00	22.58	0.00	0.	0.00
477	19.750	32.00	0.00	0.00	0.00	3.89	4.45	0.00	4.45	0.00	1.19	0.11	0.00	1.31	0.00	22.56	0.00	0.	0.00
478	19.500	32.00	0.00	0.00	0.00	3.86	4.41	0.00	4.41	0.00	1.19	0.12	0.00	1.31	0.00	22.54	0.00	0.	0.00
479	19.250	32.00	0.00	0.00	0.00	3.83	4.37	0.00	4.37	0.00	1.19	0.12	0.00	1.31	0.00	22.52	0.00	0.	0.00

480	19.000	32.00	0.00	0.00	0.00	3.80	4.34	0.00	4.34	0.00	1.19	0.12	0.00	1.31	0.00	22.50	0.00	0.	0.00
481	18.750	32.00	0.00	0.00	0.00	3.77	4.30	0.00	4.30	0.00	1.19	0.12	0.00	1.31	0.00	22.48	0.00	0.	0.00
482	18.500	32.00	0.00	0.00	0.00	3.75	4.27	0.00	4.27	0.00	1.19	0.12	0.00	1.30	0.00	22.46	0.00	0.	0.00
483	18.250	32.00	0.00	0.00	0.00	3.73	4.24	0.00	4.24	0.00	1.19	0.12	0.00	1.30	0.00	22.44	0.00	0.	0.00
484	18.000	32.01	0.00	0.00	0.00	3.71	4.22	0.00	4.22	0.00	1.19	0.12	0.00	1.30	0.00	22.42	0.00	0.	0.00
485	17.750	32.01	0.00	0.00	0.00	3.69	4.19	0.00	4.19	0.00	1.19	0.12	0.00	1.30	0.00	22.40	0.00	0.	0.00
486	17.500	32.01	0.00	0.00	0.00	3.68	4.17	0.00	4.17	0.00	1.19	0.12	0.00	1.30	0.00	22.38	0.00	0.	0.00
487	17.250	32.01	0.00	0.00	0.00	3.66	4.15	0.00	4.15	0.00	1.18	0.12	0.00	1.30	0.00	22.36	0.00	0.	0.00
488	17.000	32.01	0.00	0.00	0.00	3.65	4.13	0.00	4.13	0.00	1.18	0.12	0.00	1.30	0.00	22.34	0.00	0.	0.00
489	16.750	32.01	0.00	0.00	0.00	3.64	4.11	0.00	4.11	0.00	1.18	0.12	0.00	1.30	0.00	22.32	0.00	0.	0.00
490	16.500	32.01	0.00	0.00	0.00	3.63	4.09	0.00	4.09	0.00	1.18	0.12	0.00	1.30	0.00	22.30	0.00	0.	0.00
491	16.250	32.01	0.00	0.00	0.00	3.62	4.08	0.00	4.08	0.00	1.18	0.12	0.00	1.30	0.00	22.28	0.00	0.	0.00
492	16.000	32.02	0.00	0.00	0.00	3.61	4.08	0.00	4.08	0.00	1.18	0.12	0.00	1.30	0.00	22.26	0.00	0.	0.00
493	15.750	32.02	0.00	0.00	0.00	3.59	4.13	0.00	4.13	0.00	1.17	0.12	0.00	1.29	0.00	22.24	0.00	0.	0.00
494	15.500	32.02	0.00	0.00	0.00	3.58	4.11	0.00	4.11	0.00	1.17	0.12	0.00	1.29	0.00	22.22	0.00	0.	0.00
495	15.250	32.02	0.00	0.00	0.00	3.57	4.09	0.00	4.09	0.00	1.17	0.12	0.00	1.29	0.00	22.20	0.00	0.	0.00
496	15.000	32.02	0.00	0.00	0.00	3.56	4.08	0.00	4.08	0.00	1.17	0.12	0.00	1.29	0.00	22.18	0.00	0.	0.00
497	14.750	32.02	0.00	0.00	0.00	3.55	4.06	0.00	4.06	0.00	1.17	0.12	0.00	1.29	0.00	22.16	0.00	0.	0.00
498	14.500	32.02	0.00	0.00	0.00	3.54	4.05	0.00	4.05	0.00	1.17	0.12	0.00	1.29	0.00	22.14	0.00	0.	0.00
499	14.250	32.02	0.00	0.00	0.00	3.54	4.03	0.00	4.03	0.00	1.17	0.12	0.00	1.29	0.00	22.12	0.00	0.	0.00
500	14.000	32.03	0.00	0.00	0.00	3.53	4.02	0.00	4.02	0.00	1.17	0.12	0.00	1.29	0.00	22.11	0.00	0.	0.00
501	13.750	32.03	0.00	0.00	0.00	3.53	4.01	0.00	4.01	0.00	1.17	0.12	0.00	1.29	0.00	22.09	0.00	0.	0.00
502	13.500	32.03	0.00	0.00	0.00	3.52	4.00	0.00	4.00	0.00	1.17	0.12	0.00	1.29	0.00	22.07	0.00	0.	0.00
503	13.250	32.03	0.00	0.00	0.00	3.52	3.99	0.00	3.99	0.00	1.17	0.12	0.00	1.29	0.00	22.05	0.00	0.	0.00
504	13.000	32.03	0.00	0.00	0.00	3.51	3.98	0.00	3.98	0.00	1.17	0.12	0.00	1.29	0.00	22.03	0.00	0.	0.00
505	12.750	32.03	0.00	0.00	0.00	3.51	3.97	0.00	3.97	0.00	1.17	0.12	0.00	1.29	0.00	22.01	0.00	0.	0.00
506	12.500	32.03	0.00	0.00	0.00	3.51	3.96	0.00	3.96	0.00	1.17	0.12	0.00	1.28	0.00	21.99	0.00	0.	0.00
507	12.250	32.04	0.00	0.00	0.00	3.51	3.95	0.00	3.95	0.00	1.16	0.12	0.00	1.28	0.00	21.97	0.00	0.	0.00
508	12.000	32.04	0.00	0.00	0.00	3.50	3.95	0.00	3.95	0.00	1.16	0.12	0.00	1.28	0.00	21.95	0.00	0.	0.00
509	11.750	32.04	0.00	0.00	0.00	3.50	3.94	0.00	3.94	0.00	1.16	0.12	0.00	1.28	0.00	21.93	0.00	0.	0.00
510	11.500	32.04	0.00	0.00	0.00	3.50	3.93	0.00	3.93	0.00	1.16	0.12	0.00	1.28	0.00	21.91	0.00	0.	0.00
511	11.250	32.04	0.00	0.00	0.00	3.50	3.93	0.00	3.93	0.00	1.16	0.12	0.00	1.28	0.00	21.89	0.00	0.	0.00
512	11.000	32.04	0.00	0.00	0.00	3.50	3.92	0.00	3.92	0.00	1.16	0.12	0.00	1.28	0.00	21.87	0.00	0.	0.00
513	10.750	32.04	0.00	0.00	0.00	3.50	3.91	0.00	3.91	0.00	1.16	0.12	0.00	1.28	0.00	21.85	0.00	0.	0.00
514	10.500	32.04	0.00	0.00	0.00	3.50	3.91	0.00	3.91	0.00	1.16	0.12	0.00	1.28	0.00	21.83	0.00	0.	0.00
515	10.250	32.05	0.00	0.00	0.00	3.49	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	21.81	0.00	0.	0.00
516	10.000	32.05	0.00	0.00	0.00	3.49	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	21.79	0.00	0.	0.00
517	9.750	32.05	0.00	0.00	0.00	3.49	3.90	0.00	3.90	0.00	1.16	0.12	0.00	1.28	0.00	21.77	0.00	0.	0.00
518	9.500	32.05	0.00	0.00	0.00	3.49	3.89	0.00	3.89	0.00	1.16	0.12	0.00	1.28	0.00	21.75	0.00	0.	0.00
519	9.250	32.05	0.00	0.00	0.00	3.49	3.89	0.00	3.89	0.00	1.16	0.12	0.00	1.28	0.00	21.73	0.00	0.	0.00
520	9.000	32.05	0.00	0.00	0.00	3.49	3.88	0.00	3.88	0.00	1.16	0.12	0.00	1.28	0.00	21.71	0.00	0.	0.00
521	8.750	32.05	0.00	0.00	0.00	3.49	3.88	0.00	3.88	0.00	1.16	0.12	0.00	1.28	0.00	21.69	0.00	0.	0.00
522	8.500	32.06	0.00	0.00	0.00	3.49	3.88	0.00	3.88	0.00	1.16	0.12	0.00	1.28	0.00	21.67	0.00	0.	0.00
523	8.250	32.06	0.00	0.00	0.00	3.49	3.89	0.00	3.89	0.00	1.15	0.12	0.00	1.27	0.00	21.65	0.00	0.	0.00
524	8.000	32.06	0.00	0.00	0.00	3.48	3.93	0.00	3.93	0.00	1.15	0.12	0.00	1.27	0.00	21.63	0.00	0.	0.00
525	7.750	32.06	0.00	0.00	0.00	3.46	4.10	0.00	4.10	0.00	1.14	0.12	0.00	1.26	0.00	21.61	0.00	0.	0.00
526	7.500	32.06	0.00	0.00	0.00	3.44	4.08	0.00	4.08	0.00	1.14	0.12	0.00	1.26	0.00	21.59	0.00	0.	0.00
527	7.250	32.06	0.00	0.00	0.00	3.43	4.07	0.00	4.07	0.00	1.14	0.12	0.00	1.26	0.00	21.57	0.00	0.	0.00
528	7.000	32.06	0.00	0.00	0.00	3.42	4.05	0.00	4.05	0.00	1.14	0.12	0.00	1.26	0.00	21.55	0.00	0.	0.00
529	6.750	32.06	0.00	0.00	0.00	3.41	4.04	0.00	4.04	0.00	1.14	0.12	0.00	1.26	0.00	21.53	0.00	0.	0.00

530	6.500	32.07	0.00	0.00	0.00	3.40	4.03	0.00	4.03	0.00	1.14	0.12	0.00	1.26	0.00	21.51	0.00	0.	0.00
531	6.250	32.07	0.00	0.00	0.00	3.39	4.02	0.00	4.02	0.00	1.14	0.12	0.00	1.26	0.00	21.49	0.00	0.	0.00
532	6.000	32.07	0.00	0.00	0.00	3.38	4.00	0.00	4.00	0.00	1.14	0.12	0.00	1.26	0.00	21.47	0.00	0.	0.00
533	5.750	32.07	0.00	0.00	0.00	3.38	3.99	0.00	3.99	0.00	1.14	0.12	0.00	1.26	0.00	21.45	0.00	0.	0.00
534	5.500	32.07	0.00	0.00	0.00	3.37	3.98	0.00	3.98	0.00	1.14	0.12	0.00	1.26	0.00	21.43	0.00	0.	0.00
535	5.250	32.07	0.00	0.00	0.00	3.36	3.97	0.00	3.97	0.00	1.14	0.12	0.00	1.26	0.00	21.41	0.00	0.	0.00
536	5.000	32.07	0.00	0.00	0.00	3.36	3.97	0.00	3.97	0.00	1.14	0.12	0.00	1.26	0.00	21.39	0.00	0.	0.00
537	4.750	32.07	0.00	0.00	0.00	3.35	3.96	0.00	3.96	0.00	1.14	0.12	0.00	1.26	0.00	21.38	0.00	0.	0.00
538	4.500	32.08	0.00	0.00	0.00	3.34	3.95	0.00	3.95	0.00	1.14	0.12	0.00	1.25	0.00	21.36	0.00	0.	0.00
539	4.250	32.08	0.00	0.00	0.00	3.34	3.94	0.00	3.94	0.00	1.14	0.12	0.00	1.25	0.00	21.34	0.00	0.	0.00
540	4.000	32.08	0.00	0.00	0.00	3.33	3.94	0.00	3.94	0.00	1.14	0.12	0.00	1.25	0.00	21.32	0.00	0.	0.00
541	3.750	32.08	0.00	0.00	0.00	3.33	3.93	0.00	3.93	0.00	1.14	0.12	0.00	1.25	0.00	21.30	0.00	0.	0.00
542	3.500	32.08	0.00	0.00	0.00	3.32	3.92	0.00	3.92	0.00	1.14	0.12	0.00	1.25	0.00	21.28	0.00	0.	0.00
543	3.250	32.08	0.00	0.00	0.00	3.32	3.92	0.00	3.92	0.00	1.13	0.12	0.00	1.25	0.00	21.26	0.00	0.	0.00
544	3.000	32.08	0.00	0.00	0.00	3.32	3.91	0.00	3.91	0.00	1.13	0.12	0.00	1.25	0.00	21.24	0.00	0.	0.00
545	2.750	32.09	0.00	0.00	0.00	3.31	3.91	0.00	3.91	0.00	1.13	0.12	0.00	1.25	0.00	21.22	0.00	0.	0.00
546	2.500	32.09	0.00	0.00	0.00	3.31	3.90	0.00	3.90	0.00	1.13	0.12	0.00	1.25	0.00	21.20	0.00	0.	0.00
547	2.250	32.09	0.00	0.00	0.00	3.31	3.90	0.00	3.90	0.00	1.13	0.12	0.00	1.25	0.00	21.18	0.00	0.	0.00
548	2.000	32.09	0.00	0.00	0.00	3.30	3.89	0.00	3.89	0.00	1.13	0.12	0.00	1.25	0.00	21.16	0.00	0.	0.00
549	1.750	32.09	0.00	0.00	0.00	3.30	3.89	0.00	3.89	0.00	1.13	0.12	0.00	1.25	0.00	21.14	0.00	0.	0.00
550	1.500	32.09	0.00	0.00	0.00	3.30	3.89	0.00	3.89	0.00	1.13	0.12	0.00	1.25	0.00	21.12	0.00	0.	0.00
551	1.250	32.09	0.00	0.00	0.00	3.29	3.88	0.00	3.88	0.00	1.13	0.12	0.00	1.25	0.00	21.10	0.00	0.	0.00
552	1.000	32.09	0.00	0.00	0.00	3.29	3.88	0.00	3.88	0.00	1.13	0.12	0.00	1.25	0.00	21.08	0.00	0.	0.00
553	0.750	32.10	0.00	0.00	0.00	3.29	3.88	0.00	3.88	0.00	1.13	0.12	0.00	1.24	0.00	21.06	0.00	0.	0.00
554	0.500	32.10	0.00	0.00	0.00	3.31	3.87	0.00	3.87	0.00	1.11	0.12	0.00	1.23	0.00	21.04	0.00	0.	0.00
555	0.250	32.10	0.00	0.00	0.00	3.39	3.86	0.00	3.86	0.00	1.03	0.12	0.00	1.15	0.00	21.02	0.00	0.	0.00
556	0.000	32.10	0.00	0.00	0.00	3.77	3.84	0.00	3.84	0.00	0.70	0.13	0.00	0.83	0.00	21.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL calibration for Gulf ICWW and Bayou Black
ICWW FTN Field Survey calibration

TRAVEL TIME = 410.57 DAYS
MAXIMUM EFFLUENT = 97.41 PERCENT
FLOW = 0.28132 TO 49.45604 m^3/s
DISPERSION = 0.3000 TO 0.9000 m^2/s
VELOCITY = 0.00017 TO 0.01772 m/s
DEPTH = 9.30 TO 13.35 m
WIDTH = 155.80 TO 395.30 m
BOD DECAY = 0.25 TO 0.26 per day
NH3 DECAY = 0.24 TO 0.28 per day
SOD = 1.48 TO 4.77 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.07 TO 0.09 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 = 3.29 TO 6.71 mg/L

FINAL REPORT Bayou Black LA-QUAL calibration for Gulf ICWW and Bayou Black
REACH NO. 5 Bayou Black FTN Field Survey calibration

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

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

NO.		deg C	ppt		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL
225	HDWTR	0.00700	32.00	0.00	0.00	0.00	1.49	9.75	0.00	9.75	0.00	1.41	0.30	0.00	0.00	25.00	0.00	0.00
EACH	INCR	0.00400	29.70	0.00	0.00	0.00	5.00	3.70	0.00		1.10	0.10	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	TIDAL VELO m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN
225	45.00	44.75	0.01100	0.0	0.00001	236.47	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
226	44.75	44.50	0.01500	0.0	0.00002	173.41	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
227	44.50	44.25	0.01900	0.0	0.00002	136.90	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
228	44.25	44.00	0.02300	0.0	0.00003	113.09	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
229	44.00	43.75	0.02700	0.0	0.00003	96.34	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
230	43.75	43.50	0.03100	0.0	0.00003	83.91	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
231	43.50	43.25	0.03500	0.0	0.00004	74.32	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
232	43.25	43.00	0.03900	0.0	0.00004	66.70	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
233	43.00	42.75	0.04300	0.0	0.00005	60.49	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
234	42.75	42.50	0.04700	0.0	0.00005	55.34	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
235	42.50	42.25	0.05100	0.0	0.00006	51.00	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
236	42.25	42.00	0.05500	0.0	0.00006	47.29	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
237	42.00	41.75	0.05900	0.0	0.00007	44.09	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
238	41.75	41.50	0.06300	0.0	0.00007	41.29	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
239	41.50	41.25	0.06700	0.0	0.00007	38.82	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
240	41.25	41.00	0.07100	0.0	0.00008	36.64	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
241	41.00	40.75	0.07500	0.0	0.00008	34.68	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
242	40.75	40.50	0.07900	0.0	0.00009	32.93	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
243	40.50	40.25	0.08300	0.0	0.00009	31.34	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
244	40.25	40.00	0.08700	0.0	0.00010	29.90	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
245	40.00	39.75	0.09100	0.0	0.00010	28.58	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
246	39.75	39.50	0.09500	0.0	0.00011	27.38	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
247	39.50	39.25	0.09900	0.0	0.00011	26.27	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
248	39.25	39.00	0.10300	0.0	0.00011	25.25	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
249	39.00	38.75	0.10700	0.0	0.00012	24.31	4.57	196.71	224741.20	49177.50	898.96	0.00	0.000	0.200	0.000	
TOT					1616.76				5618529.50	1229437.50						
AVG				0.0000		4.57	196.71			898.96						
CUM					1616.76											

********** 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 SETT 1/da	NCM	NCM
225	44.750	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
226	44.500	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
227	44.250	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
228	44.000	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
229	43.750	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
230	43.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
231	43.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
232	43.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
233	42.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
234	42.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
235	42.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	

236	42.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
237	41.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
238	41.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
239	41.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
240	41.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
241	40.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
242	40.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
243	40.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
244	40.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
245	39.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
246	39.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
247	39.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
248	39.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
249	38.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.15 0.15 0.00 0.00 0.00 0.00 0.00 0.70 0.02 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 µg/L	TOTN g/m³	PHOS	CHL A	MACRO	COLI #/100mL	NCM
225	44.750	32.10	0.00	0.00	0.00	10.74	0.42	0.00	0.42	0.00	0.16	0.01	0.00	0.17	0.00	25.00	0.00	0.	0.00
226	44.500	32.09	0.00	0.00	0.00	10.80	0.38	0.00	0.38	0.00	0.15	0.01	0.00	0.16	0.00	25.00	0.00	0.	0.00
227	44.250	32.09	0.00	0.00	0.00	10.84	0.37	0.00	0.37	0.00	0.15	0.01	0.00	0.16	0.00	25.00	0.00	0.	0.00
228	44.000	32.08	0.00	0.00	0.00	10.86	0.36	0.00	0.36	0.00	0.14	0.01	0.00	0.15	0.00	25.00	0.00	0.	0.00
229	43.750	32.08	0.00	0.00	0.00	10.87	0.36	0.00	0.36	0.00	0.14	0.01	0.00	0.15	0.00	25.00	0.00	0.	0.00
230	43.500	32.08	0.00	0.00	0.00	10.88	0.36	0.00	0.36	0.00	0.14	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
231	43.250	32.07	0.00	0.00	0.00	10.88	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
232	43.000	32.07	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
233	42.750	32.06	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
234	42.500	32.06	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
235	42.250	32.06	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
236	42.000	32.05	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
237	41.750	32.05	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
238	41.500	32.04	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
239	41.250	32.04	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
240	41.000	32.04	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
241	40.750	32.03	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
242	40.500	32.03	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
243	40.250	32.02	0.00	0.00	0.00	10.89	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
244	40.000	32.02	0.00	0.00	0.00	10.88	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
245	39.750	32.02	0.00	0.00	0.00	10.87	0.36	0.00	0.36	0.00	0.13	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
246	39.500	32.01	0.00	0.00	0.00	10.85	0.37	0.00	0.37	0.00	0.14	0.01	0.00	0.14	0.00	25.00	0.00	0.	0.00
247	39.250	32.01	0.00	0.00	0.00	10.81	0.38	0.00	0.38	0.00	0.14	0.01	0.00	0.15	0.00	25.00	0.00	0.	0.00
248	39.000	32.00	0.00	0.00	0.00	10.73	0.41	0.00	0.41	0.00	0.14	0.01	0.00	0.15	0.00	25.00	0.00	0.	0.00
249	38.750	32.00	0.00	0.00	0.00	10.57	0.48	0.00	0.48	0.00	0.15	0.01	0.00	0.16	0.00	25.00	0.00	0.	0.00

FINAL REPORT Bayou Black LA-QUAL calibration for Gulf ICWW and Bayou Black

REACH NO. 6 Bayou Black FTN Field Survey calibration

********** 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
250	UPR RCH	0.10700	32.00	0.00	0.00	0.00	10.57	0.48	0.00	0.48	0.00	0.15	0.01	0.00	0.00	25.00	0.00	0.00

EACH	INCR	0.00286	29.70	0.00	0.00	0.00	5.00	3.70	0.00		1.10	0.10	0.00	0.00	0.00	0.00				
260	WSTLD	0.00014	31.20	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00		
268	WSTLD	0.00004	31.20	0.00	0.00	0.00	5.00	69.00	0.00	69.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00		
278	WSTLD	0.00150	31.20	0.00	0.00	0.00	5.00	56.90	0.00	56.90	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00		

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
250	38.75	38.50	0.10986	0.0	0.00304	0.95	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.003
251	38.50	38.25	0.11271	0.0	0.00312	0.93	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.003
252	38.25	38.00	0.11557	0.0	0.00320	0.91	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.003
253	38.00	37.75	0.11843	0.0	0.00328	0.88	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.003
254	37.75	37.50	0.12129	0.0	0.00335	0.86	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.003
255	37.50	37.25	0.12414	0.0	0.00343	0.84	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.003
256	37.25	37.00	0.12700	0.0	0.00351	0.82	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004
257	37.00	36.75	0.12986	0.0	0.00359	0.81	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004
258	36.75	36.50	0.13271	0.0	0.00367	0.79	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004
259	36.50	36.25	0.13557	0.0	0.00375	0.77	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004
260	36.25	36.00	0.13857	0.1	0.00383	0.76	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004
261	36.00	35.75	0.14143	0.1	0.00391	0.74	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004
262	35.75	35.50	0.14428	0.1	0.00399	0.73	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004
263	35.50	35.25	0.14714	0.1	0.00407	0.71	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004
264	35.25	35.00	0.15000	0.1	0.00415	0.70	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004
265	35.00	34.75	0.15285	0.1	0.00423	0.68	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004
266	34.75	34.50	0.15571	0.1	0.00431	0.67	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004
267	34.50	34.25	0.15857	0.1	0.00439	0.66	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004
268	34.25	34.00	0.16147	0.1	0.00447	0.65	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.004
269	34.00	33.75	0.16432	0.1	0.00454	0.64	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
270	33.75	33.50	0.16718	0.1	0.00462	0.63	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
271	33.50	33.25	0.17004	0.1	0.00470	0.62	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
272	33.25	33.00	0.17289	0.1	0.00478	0.61	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
273	33.00	32.75	0.17575	0.1	0.00486	0.60	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
274	32.75	32.50	0.17861	0.1	0.00494	0.59	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
275	32.50	32.25	0.18147	0.1	0.00502	0.58	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
276	32.25	32.00	0.18432	0.1	0.00510	0.57	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
277	32.00	31.75	0.18718	0.1	0.00518	0.56	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
278	31.75	31.50	0.19154	0.9	0.00530	0.55	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
279	31.50	31.25	0.19439	0.9	0.00538	0.54	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
280	31.25	31.00	0.19725	0.9	0.00546	0.53	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.005
281	31.00	30.75	0.20011	0.8	0.00553	0.52	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
282	30.75	30.50	0.20297	0.8	0.00561	0.52	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
283	30.50	30.25	0.20582	0.8	0.00569	0.51	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
284	30.25	30.00	0.20868	0.8	0.00577	0.50	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
TOT					23.89				316375.50	272737.50					
AVG				0.0042			1.16	31.17			36.16				
CUM					1640.65										

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

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

250	38.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
251	38.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
252	38.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
253	37.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.44	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
254	37.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
255	37.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
256	37.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
257	36.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
258	36.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
259	36.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
260	36.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
261	35.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
262	35.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
263	35.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
264	35.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
265	34.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
266	34.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
267	34.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
268	34.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
269	33.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
270	33.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00
271	33.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
272	33.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
273	32.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
274	32.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
275	32.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
276	32.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
277	31.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
278	31.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
279	31.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
280	31.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
281	30.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.42	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
282	30.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
283	30.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
284	30.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.43	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.60	0.15	0.00	0.00	0.00	0.00	0.00	0.70			0.02	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 #/100mL	MACRO	COLI	NCM
250	38.500	32.00	0.00	0.00	0.00	10.00	0.87	0.00	0.87	0.00	0.17	0.01	0.00	0.18	0.00	25.71	0.00	0.	0.00	
251	38.250	32.00	0.00	0.00	0.00	8.45	2.18	0.00	2.18	0.00	0.25	0.01	0.00	0.26	0.00	26.43	0.00	0.	0.00	
252	38.000	32.00	0.00	0.00	0.00	7.44	3.18	0.00	3.18	0.00	0.32	0.02	0.00	0.33	0.00	27.14	0.00	0.	0.00	
253	37.750	32.00	0.00	0.00	0.00	6.77	3.96	0.00	3.96	0.00	0.38	0.02	0.00	0.40	0.00	27.86	0.00	0.	0.00	
254	37.500	32.00	0.00	0.00	0.00	6.31	4.56	0.00	4.56	0.00	0.44	0.02	0.00	0.47	0.00	28.57	0.00	0.	0.00	
255	37.250	32.00	0.00	0.00	0.00	6.00	5.04	0.00	5.04	0.00	0.50	0.03	0.00	0.53	0.00	29.29	0.00	0.	0.00	
256	37.000	32.00	0.00	0.00	0.00	5.77	5.41	0.00	5.41	0.00	0.56	0.03	0.00	0.58	0.00	30.00	0.00	0.	0.00	
257	36.750	32.00	0.00	0.00	0.00	5.62	5.70	0.00	5.70	0.00	0.61	0.03	0.00	0.64	0.00	30.71	0.00	0.	0.00	
258	36.500	32.00	0.00	0.00	0.00	5.51	5.94	0.00	5.94	0.00	0.65	0.03	0.00	0.69	0.00	31.43	0.00	0.	0.00	
259	36.250	32.00	0.00	0.00	0.00	5.43	6.12	0.00	6.12	0.00	0.70	0.04	0.00	0.74	0.00	32.14	0.00	0.	0.00	

260	36.000	32.00	0.00	0.00	0.00	5.36	6.36	0.00	6.36	0.00	0.74	0.04	0.00	0.78	0.00	32.86	0.00	0.	0.00
261	35.750	32.00	0.00	0.00	0.00	5.32	6.46	0.00	6.46	0.00	0.78	0.04	0.00	0.82	0.00	33.57	0.00	0.	0.00
262	35.500	32.00	0.00	0.00	0.00	5.30	6.55	0.00	6.55	0.00	0.82	0.05	0.00	0.86	0.00	34.29	0.00	0.	0.00
263	35.250	32.00	0.00	0.00	0.00	5.29	6.61	0.00	6.61	0.00	0.85	0.05	0.00	0.90	0.00	35.00	0.00	0.	0.00
264	35.000	32.00	0.00	0.00	0.00	5.29	6.67	0.00	6.67	0.00	0.89	0.05	0.00	0.94	0.00	35.71	0.00	0.	0.00
265	34.750	32.00	0.00	0.00	0.00	5.30	6.72	0.00	6.72	0.00	0.92	0.05	0.00	0.97	0.00	36.43	0.00	0.	0.00
266	34.500	32.00	0.00	0.00	0.00	5.32	6.75	0.00	6.75	0.00	0.95	0.05	0.00	1.00	0.00	37.14	0.00	0.	0.00
267	34.250	32.00	0.00	0.00	0.00	5.33	6.79	0.00	6.79	0.00	0.97	0.06	0.00	1.03	0.00	37.86	0.00	0.	0.00
268	34.000	32.00	0.00	0.00	0.00	5.35	6.82	0.00	6.82	0.00	1.00	0.06	0.00	1.06	0.00	38.57	0.00	0.	0.00
269	33.750	32.00	0.00	0.00	0.00	5.38	6.84	0.00	6.84	0.00	1.03	0.06	0.00	1.09	0.00	39.29	0.00	0.	0.00
270	33.500	32.00	0.00	0.00	0.00	5.40	6.86	0.00	6.86	0.00	1.05	0.06	0.00	1.11	0.00	40.00	0.00	0.	0.00
271	33.250	32.00	0.00	0.00	0.00	5.43	6.87	0.00	6.87	0.00	1.07	0.06	0.00	1.14	0.00	40.71	0.00	0.	0.00
272	33.000	32.00	0.00	0.00	0.00	5.46	6.88	0.00	6.88	0.00	1.10	0.06	0.00	1.16	0.00	41.43	0.00	0.	0.00
273	32.750	32.00	0.00	0.00	0.00	5.49	6.89	0.00	6.89	0.00	1.12	0.06	0.00	1.18	0.00	42.14	0.00	0.	0.00
274	32.500	32.00	0.00	0.00	0.00	5.53	6.90	0.00	6.90	0.00	1.14	0.07	0.00	1.20	0.00	42.86	0.00	0.	0.00
275	32.250	32.00	0.00	0.00	0.00	5.56	6.91	0.00	6.91	0.00	1.16	0.07	0.00	1.22	0.00	43.57	0.00	0.	0.00
276	32.000	32.00	0.00	0.00	0.00	5.59	6.91	0.00	6.91	0.00	1.17	0.07	0.00	1.24	0.00	44.29	0.00	0.	0.00
277	31.750	32.00	0.00	0.00	0.00	5.63	6.92	0.00	6.92	0.00	1.19	0.07	0.00	1.26	0.00	45.00	0.00	0.	0.00
278	31.500	32.00	0.00	0.00	0.00	5.62	7.26	0.00	7.26	0.00	1.21	0.08	0.00	1.29	0.00	45.71	0.00	0.	0.00
279	31.250	32.00	0.00	0.00	0.00	5.63	7.22	0.00	7.22	0.00	1.22	0.08	0.00	1.30	0.00	46.43	0.00	0.	0.00
280	31.000	32.00	0.00	0.00	0.00	5.66	7.18	0.00	7.18	0.00	1.24	0.08	0.00	1.32	0.00	47.14	0.00	0.	0.00
281	30.750	32.00	0.00	0.00	0.00	5.69	7.15	0.00	7.15	0.00	1.25	0.08	0.00	1.33	0.00	47.86	0.00	0.	0.00
282	30.500	32.00	0.00	0.00	0.00	5.73	7.13	0.00	7.13	0.00	1.27	0.08	0.00	1.35	0.00	48.57	0.00	0.	0.00
283	30.250	32.00	0.00	0.00	0.00	5.77	7.10	0.00	7.10	0.00	1.28	0.08	0.00	1.36	0.00	49.29	0.00	0.	0.00
284	30.000	32.00	0.00	0.00	0.00	5.81	7.08	0.00	7.08	0.00	1.29	0.08	0.00	1.37	0.00	50.00	0.00	0.	0.00

FINAL REPORT Bayou Black LA-QUAL calibration for Gulf ICWW and Bayou Black
REACH NO. 7 Bayou Black FTN Field Survey calibration

********** 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
285	UPR RCH	0.20868	32.00	0.00	0.00	0.00	5.81	7.08	0.00	7.08	0.00	1.29	0.08	0.00	0.00	50.00	0.00	0.00
EACH	INCR	0.00143	29.70	0.00	0.00	0.00	5.00	3.70	0.00			1.10	0.10	0.00	0.00	0.00	0.00	
292	WSTLD	0.00192	31.20	0.00	0.00	0.00	5.00	52.70	0.00	52.70	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
312	WSTLD	0.00071	31.20	0.00	0.00	0.00	5.00	69.00	0.00	69.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
331	WSTLD	0.00018	31.20	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
339	WSTLD	0.00042	31.20	0.00	0.00	0.00	5.00	69.00	0.00	69.00	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
352	WSTLD	0.01416	31.20	0.00	0.00	0.00	5.00	57.50	0.00	57.50	0.00	1.40	20.00	2.00	0.00	0.00	0.00	0.00
369	WSTLD	0.00160	31.20	0.00	0.00	0.00	5.00	25.40	0.00	25.40	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
372	WSTLD	0.00001	31.20	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	1.40	1.50	2.00	0.00	0.00	0.00	0.00
373	WSTLD	0.52662	31.20	0.00	0.00	0.00	10.40	7.20	0.00	7.20	0.00	1.40	0.10	0.00	0.00	0.00	0.00	0.00
401	WSTLD	1.30238	31.20	0.00	0.00	0.00	2.30	9.40	0.00	9.40	0.00	1.63	0.14	0.00	0.00	0.00	0.00	0.00
402	WSTLD	0.00039	31.20	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	1.63	1.50	2.00	0.00	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
285	30.00	29.75	0.21011	0.8	0.00581	0.50	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
286	29.75	29.50	0.21155	0.8	0.00585	0.49	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
287	29.50	29.25	0.21298	0.8	0.00589	0.49	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
288	29.25	29.00	0.21441	0.8	0.00593	0.49	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006

289	29.00	28.75	0.21585	0.8	0.00597	0.48	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
290	28.75	28.50	0.21728	0.8	0.00601	0.48	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
291	28.50	28.25	0.21871	0.8	0.00605	0.48	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
292	28.25	28.00	0.22207	1.6	0.00614	0.47	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
293	28.00	27.75	0.22350	1.6	0.00618	0.47	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
294	27.75	27.50	0.22493	1.6	0.00622	0.47	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
295	27.50	27.25	0.22637	1.6	0.00626	0.46	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
296	27.25	27.00	0.22780	1.6	0.00630	0.46	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
297	27.00	26.75	0.22923	1.6	0.00634	0.46	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
298	26.75	26.50	0.23067	1.6	0.00638	0.45	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
299	26.50	26.25	0.23210	1.6	0.00642	0.45	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
300	26.25	26.00	0.23353	1.5	0.00646	0.45	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
301	26.00	25.75	0.23497	1.5	0.00650	0.45	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.006
302	25.75	25.50	0.23640	1.5	0.00654	0.44	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
303	25.50	25.25	0.23783	1.5	0.00658	0.44	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
304	25.25	25.00	0.23927	1.5	0.00662	0.44	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
305	25.00	24.75	0.24070	1.5	0.00666	0.43	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
306	24.75	24.50	0.24213	1.5	0.00670	0.43	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
307	24.50	24.25	0.24357	1.5	0.00674	0.43	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
308	24.25	24.00	0.24500	1.5	0.00678	0.43	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
309	24.00	23.75	0.24643	1.5	0.00682	0.42	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
310	23.75	23.50	0.24787	1.5	0.00686	0.42	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
311	23.50	23.25	0.24930	1.4	0.00689	0.42	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
312	23.25	23.00	0.25144	1.7	0.00695	0.42	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
313	23.00	22.75	0.25288	1.7	0.00699	0.41	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
314	22.75	22.50	0.25431	1.7	0.00703	0.41	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
315	22.50	22.25	0.25574	1.7	0.00707	0.41	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
316	22.25	22.00	0.25718	1.7	0.00711	0.41	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
317	22.00	21.75	0.25861	1.7	0.00715	0.40	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
318	21.75	21.50	0.26004	1.7	0.00719	0.40	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
319	21.50	21.25	0.26148	1.6	0.00723	0.40	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
320	21.25	21.00	0.26291	1.6	0.00727	0.40	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
321	21.00	20.75	0.26434	1.6	0.00731	0.40	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
322	20.75	20.50	0.26578	1.6	0.00735	0.39	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
323	20.50	20.25	0.26721	1.6	0.00739	0.39	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
324	20.25	20.00	0.26864	1.6	0.00743	0.39	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
325	20.00	19.75	0.27008	1.6	0.00747	0.39	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.007
326	19.75	19.50	0.27151	1.6	0.00751	0.39	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
327	19.50	19.25	0.27294	1.6	0.00755	0.38	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
328	19.25	19.00	0.27438	1.6	0.00759	0.38	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
329	19.00	18.75	0.27581	1.6	0.00763	0.38	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
330	18.75	18.50	0.27724	1.6	0.00767	0.38	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
331	18.50	18.25	0.27886	1.6	0.00771	0.38	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
332	18.25	18.00	0.28029	1.6	0.00775	0.37	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
333	18.00	17.75	0.28172	1.6	0.00779	0.37	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
334	17.75	17.50	0.28316	1.6	0.00783	0.37	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
335	17.50	17.25	0.28459	1.6	0.00787	0.37	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
336	17.25	17.00	0.28602	1.6	0.00791	0.37	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
337	17.00	16.75	0.28746	1.6	0.00795	0.36	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
338	16.75	16.50	0.28889	1.6	0.00799	0.36	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008

339	16.50	16.25	0.29074	1.7	0.00804	0.36	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
340	16.25	16.00	0.29218	1.7	0.00808	0.36	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
341	16.00	15.75	0.29361	1.7	0.00812	0.36	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
342	15.75	15.50	0.29504	1.7	0.00816	0.35	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
343	15.50	15.25	0.29648	1.7	0.00820	0.35	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
344	15.25	15.00	0.29791	1.6	0.00824	0.35	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
345	15.00	14.75	0.29934	1.6	0.00828	0.35	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
346	14.75	14.50	0.30078	1.6	0.00832	0.35	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
347	14.50	14.25	0.30221	1.6	0.00836	0.35	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
348	14.25	14.00	0.30364	1.6	0.00840	0.34	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
349	14.00	13.75	0.30508	1.6	0.00844	0.34	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
350	13.75	13.50	0.30651	1.6	0.00848	0.34	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.008
351	13.50	13.25	0.30794	1.6	0.00852	0.34	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
352	13.25	13.00	0.32354	5.9	0.00895	0.32	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
353	13.00	12.75	0.32497	5.9	0.00899	0.32	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
354	12.75	12.50	0.32640	5.8	0.00903	0.32	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
355	12.50	12.25	0.32784	5.8	0.00907	0.32	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
356	12.25	12.00	0.32927	5.8	0.00911	0.32	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
357	12.00	11.75	0.33070	5.8	0.00915	0.32	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
358	11.75	11.50	0.33214	5.7	0.00919	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
359	11.50	11.25	0.33357	5.7	0.00923	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
360	11.25	11.00	0.33500	5.7	0.00927	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
361	11.00	10.75	0.33644	5.7	0.00930	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
362	10.75	10.50	0.33787	5.6	0.00934	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
363	10.50	10.25	0.33930	5.6	0.00938	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
364	10.25	10.00	0.34074	5.6	0.00942	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
365	10.00	9.75	0.34217	5.6	0.00946	0.31	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.009
366	9.75	9.50	0.34360	5.5	0.00950	0.30	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.010
367	9.50	9.25	0.34504	5.5	0.00954	0.30	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.010
368	9.25	9.00	0.34647	5.5	0.00958	0.30	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.010
369	9.00	8.75	0.34950	5.9	0.00967	0.30	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.010
370	8.75	8.50	0.35094	5.9	0.00971	0.30	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.010
371	8.50	8.25	0.35237	5.9	0.00975	0.30	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.010
372	8.25	8.00	0.35381	5.8	0.00979	0.30	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.010
373	8.00	7.75	0.88187	62.1	0.02439	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.024
374	7.75	7.50	0.88330	62.0	0.02443	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.024
375	7.50	7.25	0.88473	61.9	0.02447	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.024
376	7.25	7.00	0.88617	61.8	0.02451	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
377	7.00	6.75	0.88760	61.7	0.02455	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
378	6.75	6.50	0.88903	61.6	0.02459	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
379	6.50	6.25	0.89047	61.5	0.02463	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
380	6.25	6.00	0.89190	61.4	0.02467	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
381	6.00	5.75	0.89333	61.3	0.02471	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
382	5.75	5.50	0.89477	61.2	0.02475	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
383	5.50	5.25	0.89620	61.1	0.02479	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
384	5.25	5.00	0.89763	61.0	0.02483	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
385	5.00	4.75	0.89907	60.9	0.02487	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
386	4.75	4.50	0.90050	60.8	0.02491	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
387	4.50	4.25	0.90193	60.7	0.02494	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
388	4.25	4.00	0.90337	60.6	0.02498	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025

389	4.00	3.75	0.90480	60.5	0.02502	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
390	3.75	3.50	0.90623	60.4	0.02506	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
391	3.50	3.25	0.90767	60.3	0.02510	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
392	3.25	3.00	0.90910	60.2	0.02514	0.12	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
393	3.00	2.75	0.91053	60.1	0.02518	0.11	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
394	2.75	2.50	0.91197	60.0	0.02522	0.11	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
395	2.50	2.25	0.91340	59.9	0.02526	0.11	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
396	2.25	2.00	0.91483	59.8	0.02530	0.11	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
397	2.00	1.75	0.91627	59.7	0.02534	0.11	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
398	1.75	1.50	0.91770	59.6	0.02538	0.11	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
399	1.50	1.25	0.91913	59.5	0.02542	0.11	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
400	1.25	1.00	0.92057	59.5	0.02546	0.11	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.025
401	1.00	0.75	2.22438	83.2	0.06152	0.05	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.062
402	0.75	0.50	2.22620	83.1	0.06157	0.05	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.062
403	0.50	0.25	2.22764	83.1	0.06161	0.05	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.062
404	0.25	0.00	2.22907	83.0	0.06165	0.05	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.062
TOT					37.27			1084716.88	935100.00						
AVG				0.0093			1.16	31.17			36.16				
CUM					1677.92										

********** 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 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
285	29.750	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
286	29.500	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
287	29.250	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.00
288	29.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
289	28.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.21	0.00	0.00	0.00	0.00
290	28.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
291	28.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
292	28.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00
293	27.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00
294	27.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
295	27.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
296	27.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.14	0.00	0.00	0.00	0.00
297	26.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
298	26.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.41	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
299	26.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
300	26.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
301	25.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
302	25.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
303	25.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.42	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
304	25.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
305	24.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
306	24.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.04	0.00	0.00	0.00	0.00
307	24.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
308	24.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
309	23.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00
310	23.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
311	23.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.99	0.00	0.00	0.00	0.00

312	23.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00
313	22.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
314	22.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.96	0.00	0.00	0.00	0.00
315	22.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00
316	22.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.94	0.00	0.00	0.00	0.00
317	21.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
318	21.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
319	21.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.91	0.00	0.00	0.00	0.00
320	21.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.42	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
321	20.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.89	0.00	0.00	0.00	0.00
322	20.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00
323	20.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
324	20.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.86	0.00	0.00	0.00	0.00
325	19.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
326	19.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
327	19.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
328	19.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
329	18.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
330	18.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00
331	18.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.79	0.00	0.00	0.00	0.00
332	18.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.00
333	17.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
334	17.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00
335	17.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00
336	17.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
337	16.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
338	16.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
339	16.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
340	16.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
341	15.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
342	15.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
343	15.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
344	15.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00
345	14.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
346	14.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
347	14.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
348	14.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00
349	13.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
350	13.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
351	13.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.41	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
352	13.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.40	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
353	12.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
354	12.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.57	0.00	0.00	0.00	0.00
355	12.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
356	12.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
357	11.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.37	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.00
358	11.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.37	0.00	0.00	0.00	1.53	0.00	0.00	0.00	0.00
359	11.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
360	11.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
361	10.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00

362	10.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
363	10.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
364	10.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
365	9.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
366	9.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.38	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
367	9.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00
368	9.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
369	8.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
370	8.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
371	8.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
372	8.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.39	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
373	7.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.44	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
374	7.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.44	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
375	7.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.44	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
376	7.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
377	6.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
378	6.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
379	6.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
380	6.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
381	5.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
382	5.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
383	5.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
384	5.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
385	4.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
386	4.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
387	4.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.41	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
388	4.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
389	3.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
390	3.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
391	3.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
392	3.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
393	2.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
394	2.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.40	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
395	2.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00
396	2.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
397	1.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
398	1.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
399	1.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
400	1.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.39	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
401	0.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
402	0.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
403	0.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
404	0.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.36	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.60	0.17	0.00	0.00	0.00	0.00	0.00	1.30			0.02	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 #/100mL	COLI	NCM
285	29.750	32.00	0.00	0.00	0.00	5.41	6.58	0.00	6.58	0.00	1.29	0.08	0.00	1.36	0.00	49.78	0.00	0.	0.00
286	29.500	32.00	0.00	0.00	0.00	5.16	6.14	0.00	6.14	0.00	1.28	0.08	0.00	1.36	0.00	49.57	0.00	0.	0.00

287	29.250	32.00	0.00	0.00	0.00	5.02	5.76	0.00	5.76	0.00	1.27	0.08	0.00	1.35	0.00	49.35	0.00	0.	0.00
288	29.000	32.00	0.00	0.00	0.00	4.95	5.44	0.00	5.44	0.00	1.26	0.08	0.00	1.34	0.00	49.13	0.00	0.	0.00
289	28.750	32.00	0.00	0.00	0.00	4.93	5.16	0.00	5.16	0.00	1.25	0.08	0.00	1.33	0.00	48.92	0.00	0.	0.00
290	28.500	32.00	0.00	0.00	0.00	4.93	4.92	0.00	4.92	0.00	1.25	0.08	0.00	1.32	0.00	48.70	0.00	0.	0.00
291	28.250	31.99	0.00	0.00	0.00	4.95	4.71	0.00	4.71	0.00	1.24	0.08	0.00	1.32	0.00	48.48	0.00	0.	0.00
292	28.000	31.99	0.00	0.00	0.00	4.94	4.89	0.00	4.89	0.00	1.23	0.09	0.00	1.32	0.00	48.27	0.00	0.	0.00
293	27.750	31.99	0.00	0.00	0.00	4.95	4.69	0.00	4.69	0.00	1.23	0.09	0.00	1.31	0.00	48.05	0.00	0.	0.00
294	27.500	31.99	0.00	0.00	0.00	4.97	4.52	0.00	4.52	0.00	1.22	0.08	0.00	1.30	0.00	47.83	0.00	0.	0.00
295	27.250	31.99	0.00	0.00	0.00	5.00	4.36	0.00	4.36	0.00	1.21	0.08	0.00	1.30	0.00	47.62	0.00	0.	0.00
296	27.000	31.99	0.00	0.00	0.00	5.03	4.23	0.00	4.23	0.00	1.21	0.08	0.00	1.29	0.00	47.40	0.00	0.	0.00
297	26.750	31.99	0.00	0.00	0.00	5.06	4.12	0.00	4.12	0.00	1.20	0.08	0.00	1.28	0.00	47.18	0.00	0.	0.00
298	26.500	31.99	0.00	0.00	0.00	5.09	4.01	0.00	4.01	0.00	1.20	0.08	0.00	1.28	0.00	46.97	0.00	0.	0.00
299	26.250	31.99	0.00	0.00	0.00	5.12	3.93	0.00	3.93	0.00	1.19	0.08	0.00	1.27	0.00	46.75	0.00	0.	0.00
300	26.000	31.99	0.00	0.00	0.00	5.15	3.85	0.00	3.85	0.00	1.18	0.08	0.00	1.26	0.00	46.53	0.00	0.	0.00
301	25.750	31.99	0.00	0.00	0.00	5.17	3.78	0.00	3.78	0.00	1.18	0.08	0.00	1.26	0.00	46.32	0.00	0.	0.00
302	25.500	31.99	0.00	0.00	0.00	5.19	3.73	0.00	3.73	0.00	1.17	0.08	0.00	1.25	0.00	46.10	0.00	0.	0.00
303	25.250	31.98	0.00	0.00	0.00	5.21	3.68	0.00	3.68	0.00	1.17	0.08	0.00	1.24	0.00	45.88	0.00	0.	0.00
304	25.000	31.98	0.00	0.00	0.00	5.22	3.63	0.00	3.63	0.00	1.16	0.07	0.00	1.24	0.00	45.67	0.00	0.	0.00
305	24.750	31.98	0.00	0.00	0.00	5.23	3.59	0.00	3.59	0.00	1.16	0.07	0.00	1.23	0.00	45.45	0.00	0.	0.00
306	24.500	31.98	0.00	0.00	0.00	5.24	3.56	0.00	3.56	0.00	1.15	0.07	0.00	1.23	0.00	45.23	0.00	0.	0.00
307	24.250	31.98	0.00	0.00	0.00	5.25	3.53	0.00	3.53	0.00	1.15	0.07	0.00	1.22	0.00	45.02	0.00	0.	0.00
308	24.000	31.98	0.00	0.00	0.00	5.25	3.50	0.00	3.50	0.00	1.14	0.07	0.00	1.22	0.00	44.80	0.00	0.	0.00
309	23.750	31.98	0.00	0.00	0.00	5.26	3.48	0.00	3.48	0.00	1.14	0.07	0.00	1.21	0.00	44.58	0.00	0.	0.00
310	23.500	31.98	0.00	0.00	0.00	5.26	3.46	0.00	3.46	0.00	1.13	0.07	0.00	1.21	0.00	44.37	0.00	0.	0.00
311	23.250	31.98	0.00	0.00	0.00	5.26	3.44	0.00	3.44	0.00	1.13	0.07	0.00	1.20	0.00	44.15	0.00	0.	0.00
312	23.000	31.98	0.00	0.00	0.00	5.24	3.59	0.00	3.59	0.00	1.13	0.07	0.00	1.20	0.00	43.93	0.00	0.	0.00
313	22.750	31.98	0.00	0.00	0.00	5.22	3.56	0.00	3.56	0.00	1.12	0.07	0.00	1.20	0.00	43.72	0.00	0.	0.00
314	22.500	31.98	0.00	0.00	0.00	5.21	3.53	0.00	3.53	0.00	1.12	0.07	0.00	1.19	0.00	43.50	0.00	0.	0.00
315	22.250	31.97	0.00	0.00	0.00	5.21	3.50	0.00	3.50	0.00	1.11	0.07	0.00	1.19	0.00	43.28	0.00	0.	0.00
316	22.000	31.97	0.00	0.00	0.00	5.20	3.48	0.00	3.48	0.00	1.11	0.07	0.00	1.18	0.00	43.07	0.00	0.	0.00
317	21.750	31.97	0.00	0.00	0.00	5.19	3.46	0.00	3.46	0.00	1.10	0.07	0.00	1.18	0.00	42.85	0.00	0.	0.00
318	21.500	31.97	0.00	0.00	0.00	5.19	3.44	0.00	3.44	0.00	1.10	0.07	0.00	1.17	0.00	42.63	0.00	0.	0.00
319	21.250	31.97	0.00	0.00	0.00	5.18	3.43	0.00	3.43	0.00	1.10	0.07	0.00	1.17	0.00	42.42	0.00	0.	0.00
320	21.000	31.97	0.00	0.00	0.00	5.18	3.41	0.00	3.41	0.00	1.09	0.07	0.00	1.16	0.00	42.20	0.00	0.	0.00
321	20.750	31.97	0.00	0.00	0.00	5.17	3.40	0.00	3.40	0.00	1.09	0.07	0.00	1.16	0.00	41.98	0.00	0.	0.00
322	20.500	31.97	0.00	0.00	0.00	5.16	3.39	0.00	3.39	0.00	1.09	0.07	0.00	1.16	0.00	41.77	0.00	0.	0.00
323	20.250	31.97	0.00	0.00	0.00	5.16	3.38	0.00	3.38	0.00	1.08	0.07	0.00	1.15	0.00	41.55	0.00	0.	0.00
324	20.000	31.97	0.00	0.00	0.00	5.15	3.37	0.00	3.37	0.00	1.08	0.07	0.00	1.15	0.00	41.33	0.00	0.	0.00
325	19.750	31.97	0.00	0.00	0.00	5.14	3.37	0.00	3.37	0.00	1.08	0.07	0.00	1.14	0.00	41.12	0.00	0.	0.00
326	19.500	31.97	0.00	0.00	0.00	5.13	3.36	0.00	3.36	0.00	1.07	0.07	0.00	1.14	0.00	40.90	0.00	0.	0.00
327	19.250	31.96	0.00	0.00	0.00	5.13	3.35	0.00	3.35	0.00	1.07	0.07	0.00	1.14	0.00	40.68	0.00	0.	0.00
328	19.000	31.96	0.00	0.00	0.00	5.12	3.35	0.00	3.35	0.00	1.07	0.07	0.00	1.13	0.00	40.47	0.00	0.	0.00
329	18.750	31.96	0.00	0.00	0.00	5.11	3.34	0.00	3.34	0.00	1.06	0.07	0.00	1.13	0.00	40.25	0.00	0.	0.00
330	18.500	31.96	0.00	0.00	0.00	5.10	3.34	0.00	3.34	0.00	1.06	0.07	0.00	1.13	0.00	40.03	0.00	0.	0.00
331	18.250	31.96	0.00	0.00	0.00	5.08	3.40	0.00	3.40	0.00	1.06	0.07	0.00	1.13	0.00	39.82	0.00	0.	0.00
332	18.000	31.96	0.00	0.00	0.00	5.07	3.39	0.00	3.39	0.00	1.06	0.07	0.00	1.12	0.00	39.60	0.00	0.	0.00
333	17.750	31.96	0.00	0.00	0.00	5.06	3.38	0.00	3.38	0.00	1.05	0.07	0.00	1.12	0.00	39.38	0.00	0.	0.00
334	17.500	31.96	0.00	0.00	0.00	5.05	3.37	0.00	3.37	0.00	1.05	0.07	0.00	1.12	0.00	39.17	0.00	0.	0.00
335	17.250	31.96	0.00	0.00	0.00	5.04	3.36	0.00	3.36	0.00	1.05	0.07	0.00	1.11	0.00	38.95	0.00	0.	0.00
336	17.000	31.96	0.00	0.00	0.00	5.03	3.36	0.00	3.36	0.00	1.04	0.07	0.00	1.11	0.00	38.73	0.00	0.	0.00

337	16.750	31.96	0.00	0.00	0.00	5.02	3.35	0.00	3.35	0.00	1.04	0.07	0.00	1.11	0.00	38.52	0.00	0.	0.00
338	16.500	31.95	0.00	0.00	0.00	5.00	3.35	0.00	3.35	0.00	1.04	0.07	0.00	1.11	0.00	38.30	0.00	0.	0.00
339	16.250	31.95	0.00	0.00	0.00	4.99	3.43	0.00	3.43	0.00	1.04	0.07	0.00	1.10	0.00	38.08	0.00	0.	0.00
340	16.000	31.95	0.00	0.00	0.00	4.97	3.42	0.00	3.42	0.00	1.03	0.07	0.00	1.10	0.00	37.87	0.00	0.	0.00
341	15.750	31.95	0.00	0.00	0.00	4.96	3.41	0.00	3.41	0.00	1.03	0.07	0.00	1.10	0.00	37.65	0.00	0.	0.00
342	15.500	31.95	0.00	0.00	0.00	4.94	3.40	0.00	3.40	0.00	1.03	0.07	0.00	1.10	0.00	37.43	0.00	0.	0.00
343	15.250	31.95	0.00	0.00	0.00	4.93	3.39	0.00	3.39	0.00	1.03	0.07	0.00	1.09	0.00	37.22	0.00	0.	0.00
344	15.000	31.95	0.00	0.00	0.00	4.92	3.38	0.00	3.38	0.00	1.03	0.07	0.00	1.09	0.00	37.00	0.00	0.	0.00
345	14.750	31.95	0.00	0.00	0.00	4.91	3.37	0.00	3.37	0.00	1.02	0.07	0.00	1.09	0.00	36.78	0.00	0.	0.00
346	14.500	31.95	0.00	0.00	0.00	4.90	3.37	0.00	3.37	0.00	1.02	0.07	0.00	1.09	0.00	36.57	0.00	0.	0.00
347	14.250	31.95	0.00	0.00	0.00	4.89	3.36	0.00	3.36	0.00	1.02	0.07	0.00	1.08	0.00	36.35	0.00	0.	0.00
348	14.000	31.95	0.00	0.00	0.00	4.88	3.36	0.00	3.36	0.00	1.02	0.07	0.00	1.08	0.00	36.13	0.00	0.	0.00
349	13.750	31.95	0.00	0.00	0.00	4.87	3.35	0.00	3.35	0.00	1.01	0.07	0.00	1.08	0.00	35.92	0.00	0.	0.00
350	13.500	31.94	0.00	0.00	0.00	4.86	3.35	0.00	3.35	0.00	1.01	0.07	0.00	1.08	0.00	35.70	0.00	0.	0.00
351	13.250	31.94	0.00	0.00	0.00	4.85	3.34	0.00	3.34	0.00	1.01	0.07	0.00	1.08	0.00	35.48	0.00	0.	0.00
352	13.000	31.94	0.00	0.00	0.00	4.33	5.50	0.00	5.50	0.00	1.03	0.84	0.00	1.86	0.00	35.27	0.00	0.	0.00
353	12.750	31.94	0.00	0.00	0.00	3.98	5.31	0.00	5.31	0.00	1.02	0.75	0.00	1.77	0.00	35.05	0.00	0.	0.00
354	12.500	31.94	0.00	0.00	0.00	3.74	5.13	0.00	5.13	0.00	1.02	0.67	0.00	1.69	0.00	34.83	0.00	0.	0.00
355	12.250	31.94	0.00	0.00	0.00	3.59	4.96	0.00	4.96	0.00	1.02	0.60	0.00	1.62	0.00	34.62	0.00	0.	0.00
356	12.000	31.94	0.00	0.00	0.00	3.51	4.81	0.00	4.81	0.00	1.02	0.55	0.00	1.56	0.00	34.40	0.00	0.	0.00
357	11.750	31.94	0.00	0.00	0.00	3.47	4.68	0.00	4.68	0.00	1.02	0.49	0.00	1.51	0.00	34.18	0.00	0.	0.00
358	11.500	31.94	0.00	0.00	0.00	3.47	4.56	0.00	4.56	0.00	1.01	0.45	0.00	1.46	0.00	33.97	0.00	0.	0.00
359	11.250	31.94	0.00	0.00	0.00	3.49	4.45	0.00	4.45	0.00	1.01	0.41	0.00	1.42	0.00	33.75	0.00	0.	0.00
360	11.000	31.94	0.00	0.00	0.00	3.52	4.35	0.00	4.35	0.00	1.01	0.37	0.00	1.38	0.00	33.53	0.00	0.	0.00
361	10.750	31.94	0.00	0.00	0.00	3.57	4.26	0.00	4.26	0.00	1.01	0.34	0.00	1.34	0.00	33.32	0.00	0.	0.00
362	10.500	31.93	0.00	0.00	0.00	3.62	4.17	0.00	4.17	0.00	1.01	0.31	0.00	1.31	0.00	33.10	0.00	0.	0.00
363	10.250	31.93	0.00	0.00	0.00	3.68	4.10	0.00	4.10	0.00	1.00	0.28	0.00	1.28	0.00	32.88	0.00	0.	0.00
364	10.000	31.93	0.00	0.00	0.00	3.73	4.03	0.00	4.03	0.00	1.00	0.26	0.00	1.26	0.00	32.67	0.00	0.	0.00
365	9.750	31.93	0.00	0.00	0.00	3.79	3.97	0.00	3.97	0.00	1.00	0.24	0.00	1.24	0.00	32.45	0.00	0.	0.00
366	9.500	31.93	0.00	0.00	0.00	3.84	3.91	0.00	3.91	0.00	1.00	0.22	0.00	1.22	0.00	32.23	0.00	0.	0.00
367	9.250	31.93	0.00	0.00	0.00	3.90	3.86	0.00	3.86	0.00	1.00	0.20	0.00	1.20	0.00	32.02	0.00	0.	0.00
368	9.000	31.93	0.00	0.00	0.00	3.94	3.81	0.00	3.81	0.00	1.00	0.19	0.00	1.18	0.00	31.80	0.00	0.	0.00
369	8.750	31.93	0.00	0.00	0.00	3.99	3.86	0.00	3.86	0.00	1.00	0.18	0.00	1.18	0.00	31.58	0.00	0.	0.00
370	8.500	31.93	0.00	0.00	0.00	4.02	3.81	0.00	3.81	0.00	0.99	0.17	0.00	1.16	0.00	31.37	0.00	0.	0.00
371	8.250	31.93	0.00	0.00	0.00	4.05	3.77	0.00	3.77	0.00	0.99	0.16	0.00	1.15	0.00	31.15	0.00	0.	0.00
372	8.000	31.93	0.00	0.00	0.00	4.08	3.74	0.00	3.74	0.00	0.99	0.15	0.00	1.14	0.00	30.93	0.00	0.	0.00
373	7.750	31.93	0.00	0.00	0.00	7.50	5.72	0.00	5.72	0.00	1.23	0.12	0.00	1.35	0.00	30.72	0.00	0.	0.00
374	7.500	31.92	0.00	0.00	0.00	7.17	5.64	0.00	5.64	0.00	1.23	0.11	0.00	1.35	0.00	30.50	0.00	0.	0.00
375	7.250	31.92	0.00	0.00	0.00	6.86	5.55	0.00	5.55	0.00	1.23	0.11	0.00	1.34	0.00	30.28	0.00	0.	0.00
376	7.000	31.92	0.00	0.00	0.00	6.59	5.47	0.00	5.47	0.00	1.23	0.11	0.00	1.34	0.00	30.07	0.00	0.	0.00
377	6.750	31.92	0.00	0.00	0.00	6.34	5.40	0.00	5.40	0.00	1.23	0.11	0.00	1.34	0.00	29.85	0.00	0.	0.00
378	6.500	31.92	0.00	0.00	0.00	6.12	5.33	0.00	5.33	0.00	1.23	0.11	0.00	1.33	0.00	29.63	0.00	0.	0.00
379	6.250	31.92	0.00	0.00	0.00	5.91	5.26	0.00	5.26	0.00	1.22	0.10	0.00	1.33	0.00	29.42	0.00	0.	0.00
380	6.000	31.92	0.00	0.00	0.00	5.72	5.19	0.00	5.19	0.00	1.22	0.10	0.00	1.33	0.00	29.20	0.00	0.	0.00
381	5.750	31.92	0.00	0.00	0.00	5.55	5.12	0.00	5.12	0.00	1.22	0.10	0.00	1.32	0.00	28.98	0.00	0.	0.00
382	5.500	31.92	0.00	0.00	0.00	5.40	5.06	0.00	5.06	0.00	1.22	0.10	0.00	1.32	0.00	28.77	0.00	0.	0.00
383	5.250	31.92	0.00	0.00	0.00	5.26	5.00	0.00	5.00	0.00	1.22	0.10	0.00	1.32	0.00	28.55	0.00	0.	0.00
384	5.000	31.92	0.00	0.00	0.00	5.13	4.94	0.00	4.94	0.00	1.22	0.10	0.00	1.31	0.00	28.33	0.00	0.	0.00
385	4.750	31.92	0.00	0.00	0.00	5.02	4.88	0.00	4.88	0.00	1.21	0.10	0.00	1.31	0.00	28.12	0.00	0.	0.00
386	4.500	31.91	0.00	0.00	0.00	4.91	4.83	0.00	4.83	0.00	1.21	0.10	0.00	1.31	0.00	27.90	0.00	0.	0.00

387	4.250	31.91	0.00	0.00	0.00	4.81	4.78	0.00	4.78	0.00	1.21	0.10	0.00	1.31	0.00	27.68	0.00	0.	0.00
388	4.000	31.91	0.00	0.00	0.00	4.73	4.73	0.00	4.73	0.00	1.21	0.09	0.00	1.30	0.00	27.47	0.00	0.	0.00
389	3.750	31.91	0.00	0.00	0.00	4.65	4.68	0.00	4.68	0.00	1.21	0.09	0.00	1.30	0.00	27.25	0.00	0.	0.00
390	3.500	31.91	0.00	0.00	0.00	4.58	4.63	0.00	4.63	0.00	1.21	0.09	0.00	1.30	0.00	27.03	0.00	0.	0.00
391	3.250	31.91	0.00	0.00	0.00	4.51	4.59	0.00	4.59	0.00	1.20	0.09	0.00	1.30	0.00	26.82	0.00	0.	0.00
392	3.000	31.91	0.00	0.00	0.00	4.45	4.54	0.00	4.54	0.00	1.20	0.09	0.00	1.29	0.00	26.60	0.00	0.	0.00
393	2.750	31.91	0.00	0.00	0.00	4.40	4.50	0.00	4.50	0.00	1.20	0.09	0.00	1.29	0.00	26.38	0.00	0.	0.00
394	2.500	31.91	0.00	0.00	0.00	4.35	4.46	0.00	4.46	0.00	1.20	0.09	0.00	1.29	0.00	26.17	0.00	0.	0.00
395	2.250	31.91	0.00	0.00	0.00	4.30	4.42	0.00	4.42	0.00	1.20	0.09	0.00	1.29	0.00	25.95	0.00	0.	0.00
396	2.000	31.91	0.00	0.00	0.00	4.26	4.38	0.00	4.38	0.00	1.20	0.09	0.00	1.29	0.00	25.73	0.00	0.	0.00
397	1.750	31.91	0.00	0.00	0.00	4.23	4.35	0.00	4.35	0.00	1.20	0.09	0.00	1.28	0.00	25.52	0.00	0.	0.00
398	1.500	31.90	0.00	0.00	0.00	4.19	4.31	0.00	4.31	0.00	1.19	0.09	0.00	1.28	0.00	25.30	0.00	0.	0.00
399	1.250	31.90	0.00	0.00	0.00	4.16	4.28	0.00	4.28	0.00	1.19	0.09	0.00	1.28	0.00	25.08	0.00	0.	0.00
400	1.000	31.90	0.00	0.00	0.00	4.13	4.25	0.00	4.25	0.00	1.19	0.09	0.00	1.28	0.00	24.87	0.00	0.	0.00
401	0.750	31.90	0.00	0.00	0.00	3.04	7.21	0.00	7.21	0.00	1.45	0.12	0.00	1.56	0.00	24.65	0.00	0.	0.00
402	0.500	31.90	0.00	0.00	0.00	3.03	7.17	0.00	7.17	0.00	1.45	0.12	0.00	1.56	0.00	24.43	0.00	0.	0.00
403	0.250	31.90	0.00	0.00	0.00	3.01	7.12	0.00	7.12	0.00	1.44	0.12	0.00	1.56	0.00	24.22	0.00	0.	0.00
404	0.000	31.90	0.00	0.00	0.00	3.00	7.06	0.00	7.06	0.00	1.44	0.12	0.00	1.56	0.00	24.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL calibration for Gulf ICWW and Bayou Black
Bayou Black FTN Field Survey calibration

TRAVEL TIME = 1677.92 DAYS
MAXIMUM EFFLUENT = 83.15 PERCENT
FLOW = 0.01100 TO 2.22907 m^3/s
DISPERSION = 0.0000 TO 0.2000 m^2/s
VELOCITY = 0.00001 TO 0.06165 m/s
DEPTH = 1.16 TO 4.57 m
WIDTH = 31.17 TO 196.71 m
BOD DECAY = 0.26 TO 0.29 per day
NH3 DECAY = 0.36 TO 0.45 per day
SOD = 1.49 TO 2.77 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.19 TO 0.75 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.03 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day
TEMPERATURE = 31.90 TO 32.10 deg C
DISSOLVED OXYGEN = 3.00 TO 10.89 mg/L

LA-QUAL calibration for Gulf ICWW and Bayou Black
FTN Field Survey calibration
REACH SUMMARY REPORT FOR ICWW

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	DEPTH m	WIDTH m	AVG EOR cfs	AVG VELO fps	FLOW AT EOR ft	AVERAGE DEPTH ft	AVG WIDTH ft
1	Gulf ICWW	94.00	84.50	9.50	289.87	1.25500	0.00038	9.300	182.49	44.314	0.001	30.513	598.75	
2	Gulf ICWW	84.50	71.50	13.00	23.52	15.09647	0.00640	13.350	209.06	533.056	0.021	43.801	685.93	
3	Gulf ICWW	71.50	62.00	9.50	30.46	31.01032	0.00361	12.770	395.30	1094.974	0.012	41.898	1296.98	
4	Gulf ICWW	62.00	38.00	24.00	20.61	12.72698	0.01348	12.190	190.00	449.390	0.044	39.995	623.39	
8	Gulf ICWW	38.00	0.00	38.00	46.11	23.56676	0.00954	12.800	155.80	832.142	0.031	41.997	511.18	

LA-QUAL calibration for Gulf ICWW and Bayou Black
FTN Field Survey calibration

REACH SUMMARY REPORT FOR Bayou Black

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
5	Bayou Black	45.00	38.75	6.25	1616.76	0.10700	0.00004	4.570	196.71	3.778	0.000	14.994	645.41
6	Bayou Black	38.75	30.00	8.75	23.89	0.20868	0.00424	1.160	31.17	7.368	0.014	3.806	102.27
7	Bayou Black	30.00	0.00	30.00	37.27	2.22907	0.00932	1.160	31.17	78.708	0.031	3.806	102.27

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

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	148.	0.	-160.	0.	0.	3.	16.	0.	0.	0.	0.	32.	-257.	-59.	0.	0.	-92.	0.	0.	0.	369.	0.	0.	-568.3	568.3	0.00
2	160.	0.	-175.	-3.	0.	5.	16.	0.	0.	0.	0.	32.	-253.	-59.	0.	0.	-93.	0.	0.	0.	370.	0.	0.	-583.4	583.4	0.00
3	175.	0.	-191.	-5.	0.	6.	16.	0.	0.	0.	0.	31.	-251.	-59.	0.	0.	-93.	0.	0.	0.	370.	0.	0.	-599.4	599.4	0.00
4	191.	0.	-206.	-6.	0.	7.	16.	0.	0.	0.	0.	31.	-250.	-60.	0.	0.	-93.	0.	0.	0.	370.	0.	0.	-614.5	614.5	0.00
5	206.	0.	-221.	-7.	0.	6.	16.	0.	0.	0.	0.	30.	-249.	-60.	0.	0.	-93.	0.	0.	0.	371.	0.	0.	-629.3	629.3	0.00
6	221.	0.	-237.	-6.	0.	6.	16.	0.	0.	0.	0.	29.	-248.	-60.	0.	0.	-93.	0.	0.	0.	371.	0.	0.	-644.1	644.0	-0.01
7	237.	0.	-252.	-6.	0.	5.	16.	0.	0.	0.	0.	29.	-248.	-60.	0.	0.	-93.	0.	0.	0.	372.	0.	0.	-658.8	658.8	-0.01
8	252.	0.	-268.	-5.	0.	4.	16.	0.	0.	0.	0.	28.	-247.	-60.	0.	0.	-93.	0.	0.	0.	372.	0.	0.	-673.6	673.6	-0.01
9	268.	0.	-283.	-4.	0.	4.	16.	0.	0.	0.	0.	28.	-247.	-60.	0.	0.	-93.	0.	0.	0.	372.	0.	0.	-688.5	688.5	-0.01
10	283.	0.	-299.	-4.	0.	3.	16.	0.	0.	0.	0.	28.	-247.	-60.	0.	0.	-94.	0.	0.	0.	373.	0.	0.	-703.5	703.5	-0.01
11	299.	0.	-314.	-3.	0.	3.	16.	0.	0.	0.	0.	27.	-247.	-60.	0.	0.	-94.	0.	0.	0.	373.	0.	0.	-718.6	718.5	-0.02
12	314.	0.	-330.	-3.	0.	3.	16.	0.	0.	0.	0.	27.	-247.	-60.	0.	0.	-94.	0.	0.	0.	373.	0.	0.	-733.7	733.7	-0.02
13	330.	0.	-345.	-3.	0.	2.	16.	0.	0.	0.	0.	27.	-247.	-60.	0.	0.	-94.	0.	0.	0.	374.	0.	0.	-748.9	748.9	-0.02
14	345.	0.	-361.	-2.	0.	2.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-94.	0.	0.	0.	374.	0.	0.	-764.2	764.2	-0.02
15	361.	0.	-376.	-2.	0.	2.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-94.	0.	0.	0.	374.	0.	0.	-779.5	779.4	-0.03
16	376.	0.	-392.	-2.	0.	1.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-94.	0.	0.	0.	375.	0.	0.	-794.7	794.7	-0.03
17	392.	0.	-407.	-1.	0.	1.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-94.	0.	0.	0.	375.	0.	0.	-810.0	810.0	-0.03
18	407.	0.	-422.	-1.	0.	1.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-95.	0.	0.	0.	376.	0.	0.	-825.2	825.2	-0.03
19	422.	0.	-438.	-1.	0.	0.	16.	0.	0.	0.	0.	25.	-247.	-60.	0.	0.	-95.	0.	0.	0.	376.	0.	0.	-840.4	840.3	-0.03
20	438.	0.	-453.	0.	0.	0.	16.	0.	0.	0.	0.	25.	-247.	-60.	0.	0.	-95.	0.	0.	0.	376.	0.	0.	-855.7	855.7	-0.04
21	453.	0.	-468.	0.	0.	-1.	16.	0.	0.	0.	0.	25.	-247.	-60.	0.	0.	-95.	0.	0.	0.	377.	0.	0.	-871.6	871.6	-0.04
22	468.	0.	-483.	1.	0.	-2.	16.	0.	0.	0.	0.	25.	-247.	-60.	0.	0.	-95.	0.	0.	0.	377.	0.	0.	-887.9	887.9	-0.04
23	483.	0.	-498.	2.	0.	-3.	16.	0.	0.	0.	0.	25.	-247.	-61.	0.	0.	-95.	0.	0.	0.	377.	0.	0.	-904.5	904.4	-0.04
24	498.	0.	-513.	3.	0.	-5.	16.	0.	0.	0.	0.	25.	-247.	-61.	0.	0.	-95.	0.	0.	0.	378.	0.	0.	-921.3	921.3	-0.04
25	513.	0.	-527.	5.	0.	-8.	16.	0.	0.	0.	0.	26.	-247.	-61.	0.	0.	-95.	0.	0.	0.	378.	0.	0.	-938.5	938.5	-0.04
26	527.	0.	-541.	8.	0.	-11.	16.	0.	0.	0.	0.	26.	-247.	-61.	0.	0.	-96.	0.	0.	0.	378.	0.	0.	-956.3	956.2	-0.04
27	541.	0.	-555.	11.	0.	-16.	16.	0.	0.	0.	0.	27.	-248.	-61.	0.	0.	-96.	0.	0.	0.	379.	0.	0.	-974.7	974.7	-0.05
28	555.	0.	-567.	16.	0.	-22.	16.	0.	0.	0.	0.	28.	-248.	-61.	0.	0.	-96.	0.	0.	0.	379.	0.	0.	-994.2	994.1	-0.05
29	567.	0.	-579.	22.	0.	-30.	16.	0.	0.	0.	0.	30.	-248.	-61.	0.	0.	-96.	0.	0.	0.	380.	0.	0.	-1014.8	1014.8	-0.05
30	579.	0.	-589.	30.	0.	-41.	16.	0.	0.	0.	0.	32.	-249.	-62.	0.	0.	-96.	0.	0.	0.	380.	0.	0.	-1037.1	1037.1	-0.05
31	589.	0.	-596.	41.	0.	-56.	16.	0.	0.	0.	0.	35.	-251.	-62.	0.	0.	-96.	0.	0.	0.	380.	0.	0.	-1061.4	1061.4	-0.04
32	596.	0.	-601.	56.	0.	-75.	16.	0.	0.	0.	0.	39.	-254.	-62.	0.	0.	-96.	0.	0.	0.	381.	0.	0.	-1088.2	1088.1	-0.04
33	601.	0.	-602.	75.	0.	-99.	16.	0.	0.	0.	0.	44.	-258.	-63.	0.	0.	-96.	0.	0.	0.	381.	0.	0.	-1117.7	1117.7	-0.04
34	602.	0.	-597.	99.	0.	-128.	16.	0.	0.	0.	0.	52.	-266.	-63.	0.	0.	-97.	0.	0.	0.	381.	0.	0.	-1150.0	1149.9	-0.03
35	597.	0.	-586.	128.	0.	-159.	16.	0.	0.	0.	0.	61.	-279.	-63.	0.	0.	-97.	0.	0.	0.	382.	0.	0.	-1184.0	1184.0	-0.01
36	586.	0.	-568.	159.	0.	-189.	16.	0.	0.	0.	0.	73.	-301.	-62.	0.	0.	-97.	0.	0.	0.	382.	0.	0.	-1217.2	1217.2	0.01
37	568.	0.	-542.	189.	0.	-203.	16.	0.	0.	0.	0.	87.	-339.	-61.	0.	0.	-97.	0.	0.	0.	382.	0.	0.	-1243.0	1243.0	0.03
38	542.	0.	-512.	203.	0.	-176.	16.	0.	0.	0.	0.	103.	-405.	-57.	0.	0.	-97.	0.	0.	0.	383.	0.	0.	-1247.7	1247.7	0.06
39	512.	0.	-18591.	176.	0.	-30.	10.	0.	0.	18212.	0.	133.	-859.	-82.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-19673.3	19673.4	0.14
40	18591.	0.	-18334.	30.	0.	-28.	10.	0.	0.	0.	0.	136.	-841.	-83.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-19397.4	19397.5	0.15

41	18334.	0.	-18094.	28.	0.	-26.	10.	0.	0.	0.	0.	139.	-824.	-85.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-19140.4	19140.5	0.16
42	18094.	0.	-17872.	26.	0.	-24.	10.	0.	0.	0.	0.	141.	-808.	-86.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-18901.5	18901.6	0.17
43	17872.	0.	-17667.	24.	0.	-22.	10.	0.	0.	0.	0.	144.	-792.	-87.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-18679.8	18680.0	0.18
44	17667.	0.	-17477.	22.	0.	-20.	10.	0.	0.	0.	0.	146.	-778.	-88.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-18474.6	18474.8	0.19
45	17477.	0.	-17302.	20.	0.	-19.	10.	0.	0.	0.	0.	148.	-763.	-89.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-18285.1	18285.3	0.20
46	17302.	0.	-17142.	19.	0.	-17.	10.	0.	0.	0.	0.	149.	-750.	-90.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-18110.6	18110.8	0.21
47	17142.	0.	-16996.	17.	0.	-16.	10.	0.	0.	0.	0.	151.	-737.	-91.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17950.5	17950.7	0.21
48	16996.	0.	-16862.	16.	0.	-14.	10.	0.	0.	0.	0.	152.	-724.	-92.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17804.0	17804.2	0.22
49	16862.	0.	-16741.	14.	0.	-13.	10.	0.	0.	0.	0.	154.	-712.	-93.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17670.5	17670.7	0.22
50	16741.	0.	-16632.	13.	0.	-12.	10.	0.	0.	0.	0.	155.	-700.	-94.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17549.4	17549.7	0.24
51	16632.	0.	-16534.	12.	0.	-10.	10.	0.	0.	0.	0.	156.	-689.	-95.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17440.2	17440.4	0.24
52	16534.	0.	-16447.	10.	0.	-9.	10.	0.	0.	0.	0.	157.	-679.	-95.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17342.2	17342.5	0.25
53	16447.	0.	-16371.	9.	0.	-8.	10.	0.	0.	0.	0.	158.	-669.	-96.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17255.0	17255.3	0.25
54	16371.	0.	-16304.	8.	0.	-7.	10.	0.	0.	0.	0.	159.	-659.	-97.	0.	0.	-111.	0.	0.	0.	630.	0.	0.	-17178.0	17178.3	0.26
55	16304.	0.	-16246.	7.	0.	-6.	10.	0.	0.	0.	0.	159.	-649.	-97.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-17110.8	17111.1	0.26
56	16246.	0.	-16198.	6.	0.	-5.	10.	0.	0.	0.	0.	160.	-640.	-98.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-17052.9	17053.1	0.26
57	16198.	0.	-4245.	5.	0.	-5.	10.	0.	0.	0.******		160.	-630.	-99.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-17003.9	17004.2	0.27
58	4245.	0.	-4239.	5.	0.	4.	10.	0.	0.	0.	0.	161.	-603.	-101.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5055.0	5055.3	0.27
59	4239.	0.	-4254.	-4.	0.	11.	10.	0.	0.	0.	0.	160.	-580.	-102.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5051.5	5051.8	0.27

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

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	4254.	0.	-4284.	-11.	0.	17.	10.	0.	0.	0.	0.	159.	-560.	-104.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5070.6	5070.8	0.26
61	4284.	0.	-4329.	-17.	0.	21.	10.	0.	0.	0.	0.	158.	-542.	-105.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5104.5	5104.7	0.26
62	4329.	0.	-4384.	-21.	0.	25.	10.	0.	0.	0.	0.	156.	-527.	-106.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5150.7	5150.9	0.25
63	4384.	0.	-4449.	-25.	0.	28.	10.	0.	0.	0.	0.	153.	-514.	-107.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5207.0	5207.2	0.24
64	4449.	0.	-4521.	-28.	0.	31.	10.	0.	0.	0.	0.	151.	-503.	-107.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5271.6	5271.8	0.22
65	4521.	0.	-4599.	-31.	0.	33.	10.	0.	0.	0.	0.	148.	-493.	-108.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5342.8	5343.0	0.21
66	4599.	0.	-4682.	-33.	0.	34.	10.	0.	0.	0.	0.	145.	-485.	-108.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5419.3	5419.5	0.19
67	4682.	0.	-4769.	-34.	0.	35.	10.	0.	0.	0.	0.	141.	-477.	-108.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5500.1	5500.3	0.18
68	4769.	0.	-4858.	-35.	0.	36.	10.	0.	0.	0.	0.	138.	-471.	-108.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5584.0	5584.2	0.16
69	4858.	0.	-4949.	-36.	0.	37.	10.	0.	0.	0.	0.	135.	-466.	-108.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5670.4	5670.6	0.14
70	4949.	0.	-5042.	-37.	0.	37.	10.	0.	0.	0.	0.	131.	-461.	-108.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5758.5	5758.7	0.13
71	5042.	0.	-5135.	-37.	0.	37.	10.	0.	0.	0.	0.	128.	-457.	-108.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5847.8	5847.9	0.11
72	5135.	0.	-5229.	-37.	0.	37.	10.	0.	0.	0.	0.	124.	-453.	-107.	0.	0.	-112.	0.	0.	0.	631.	0.	0.	-5937.7	5937.8	0.10
73	5229.	0.	-5323.	-37.	0.	37.	10.	0.	0.	0.	0.	121.	-450.	-107.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6027.9	6028.0	0.08
74	5323.	0.	-5416.	-37.	0.	36.	10.	0.	0.	0.	0.	117.	-447.	-106.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6118.0	6118.0	0.07
75	5416.	0.	-5509.	-36.	0.	36.	10.	0.	0.	0.	0.	114.	-445.	-106.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6207.7	6207.7	0.06
76	5509.	0.	-5601.	-36.	0.	35.	10.	0.	0.	0.	0.	111.	-443.	-105.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6296.8	6296.8	0.04
77	5601.	0.	-5692.	-35.	0.	35.	10.	0.	0.	0.	0.	107.	-441.	-105.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6385.1	6385.1	0.03
78	5692.	0.	-5782.	-35.	0.	34.	10.	0.	0.	0.	0.	104.	-440.	-104.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6472.4	6472.4	0.02
79	5782.	0.	-5871.	-34.	0.	34.	10.	0.	0.	0.	0.	101.	-438.	-103.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6558.7	6558.7	0.01
80	5871.	0.	-5959.	-34.	0.	33.	10.	0.	0.	0.	0.	98.	-437.	-103.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6643.7	6643.7	0.00
81	5959.	0.	-6045.	-33.	0.	32.	10.	0.	0.	0.	0.	94.	-436.	-102.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6727.5	6727.5	-0.01
82	6045.	0.	-6129.	-32.	0.	31.	10.	0.	0.	0.	0.	91.	-435.	-101.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6809.9	6809.8	-0.02
83	6129.	0.	-6213.	-31.	0.	31.	10.	0.	0.	0.	0.	88.	-434.	-100.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6890.8	6890.8	-0.03
84	6213.	0.	-6294.	-31.	0.	30.	10.	0.	0.	0.	0.	85.	-434.	-100.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-6970.2	6970.1	-0.04
85	6294.	0.	-6373.	-30.	0.	29.	10.	0.	0.	0.	0.	83.	-433.	-99.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-7047.7	7047.6	-0.05
86	6373.	0.	-6450.	-29.	0.	27.	10.	0.	0.	0.	0.	80.	-434.	-98.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-7122.9	7122.8	-0.05
87	6450.	0.	-6523.	-27.	0.	26.	10.	0.	0.	0.	0.	77.	-436.	-98.	0.	0.	-112.	0.	0.	0.	632.	0.	0.	-7196.0	7195.9	-0.06

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135	11059.	0.	-11029.	3.	0.	-3.	10.	0.	0.	0.	0.	132.	-407.	-75.	0.	0.	-226.	0.	0.	0.	537.	0.	0.	-11740.7	11740.8	0.06
136	11029.	0.	-11005.	3.	0.	-2.	10.	0.	0.	0.	0.	132.	-404.	-75.	0.	0.	-226.	0.	0.	0.	538.	0.	0.	-11712.3	11712.4	0.07
137	11005.	0.	-10984.	2.	0.	-2.	10.	0.	0.	0.	0.	133.	-401.	-75.	0.	0.	-226.	0.	0.	0.	539.	0.	0.	-11688.5	11688.6	0.06
138	10984.	0.	-10968.	2.	0.	-2.	10.	0.	0.	0.	0.	133.	-398.	-75.	0.	0.	-226.	0.	0.	0.	540.	0.	0.	-11669.1	11669.2	0.07
139	10968.	0.	-10956.	2.	0.	-1.	10.	0.	0.	0.	0.	133.	-395.	-75.	0.	0.	-226.	0.	0.	0.	541.	0.	0.	-11653.8	11653.8	0.07
140	10956.	0.	-10947.	1.	0.	-1.	10.	0.	0.	0.	0.	134.	-393.	-75.	0.	0.	-226.	0.	0.	0.	542.	0.	0.	-11642.4	11642.5	0.07
141	10947.	0.	-10942.	1.	0.	-1.	10.	0.	0.	0.	0.	134.	-391.	-75.	0.	0.	-226.	0.	0.	0.	543.	0.	0.	-11634.7	11634.8	0.07
142	10942.	0.	-10941.	1.	0.	0.	10.	0.	0.	0.	0.	134.	-388.	-75.	0.	0.	-226.	0.	0.	0.	544.	0.	0.	-11630.6	11630.7	0.07
143	10941.	0.	-10942.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-386.	-75.	0.	0.	-226.	0.	0.	0.	545.	0.	0.	-11629.9	11629.9	0.07
144	10942.	0.	-10947.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-384.	-75.	0.	0.	-226.	0.	0.	0.	546.	0.	0.	-11632.4	11632.5	0.07
145	10947.	0.	-10955.	0.	0.	0.	10.	0.	0.	0.	0.	134.	-382.	-75.	0.	0.	-226.	0.	0.	0.	547.	0.	0.	-11638.3	11638.3	0.07
146	10955.	0.	-10965.	0.	0.	1.	10.	0.	0.	0.	0.	134.	-380.	-75.	0.	0.	-226.	0.	0.	0.	548.	0.	0.	-11647.1	11647.1	0.07
147	10965.	0.	-10978.	-1.	0.	1.	10.	0.	0.	0.	0.	134.	-379.	-76.	0.	0.	-226.	0.	0.	0.	549.	0.	0.	-11658.5	11658.6	0.06
148	10978.	0.	-10993.	-1.	0.	1.	10.	0.	0.	0.	0.	134.	-377.	-76.	0.	0.	-226.	0.	0.	0.	550.	0.	0.	-11672.6	11672.7	0.07
149	10993.	0.	-11011.	-1.	0.	1.	10.	0.	0.	0.	0.	133.	-376.	-76.	0.	0.	-225.	0.	0.	0.	551.	0.	0.	-11689.1	11689.2	0.06
150	11011.	0.	-11031.	-1.	0.	1.	10.	0.	0.	0.	0.	133.	-374.	-76.	0.	0.	-225.	0.	0.	0.	552.	0.	0.	-11707.9	11708.0	0.06
151	11031.	0.	-11054.	-1.	0.	2.	10.	0.	0.	0.	0.	133.	-373.	-76.	0.	0.	-225.	0.	0.	0.	553.	0.	0.	-11729.0	11729.0	0.06
152	11054.	0.	-11078.	-2.	0.	2.	10.	0.	0.	0.	0.	133.	-372.	-76.	0.	0.	-225.	0.	0.	0.	554.	0.	0.	-11752.1	11752.2	0.06
153	11078.	0.	-11104.	-2.	0.	2.	10.	0.	0.	0.	0.	132.	-370.	-76.	0.	0.	-225.	0.	0.	0.	555.	0.	0.	-11777.2	11777.3	0.05
154	11104.	0.	-11132.	-2.	0.	2.	10.	0.	0.	0.	0.	132.	-369.	-76.	0.	0.	-225.	0.	0.	0.	556.	0.	0.	-11804.3	11804.3	0.06
155	11132.	0.	-11162.	-2.	0.	2.	10.	0.	0.	0.	0.	132.	-368.	-76.	0.	0.	-225.	0.	0.	0.	557.	0.	0.	-11833.1	11833.2	0.05
156	11162.	0.	-11194.	-2.	0.	2.	10.	0.	0.	0.	0.	131.	-367.	-76.	0.	0.	-225.	0.	0.	0.	558.	0.	0.	-11863.7	11863.8	0.05
157	11194.	0.	-11227.	-2.	0.	3.	10.	0.	0.	0.	0.	131.	-366.	-76.	0.	0.	-225.	0.	0.	0.	559.	0.	0.	-11896.0	11896.0	0.05
158	11227.	0.	-11261.	-3.	0.	3.	10.	0.	0.	0.	0.	131.	-365.	-76.	0.	0.	-225.	0.	0.	0.	560.	0.	0.	-11929.8	11929.9	0.05
159	11261.	0.	-11298.	-3.	0.	3.	10.	0.	0.	0.	0.	130.	-364.	-76.	0.	0.	-225.	0.	0.	0.	561.	0.	0.	-11965.1	11965.2	0.04
160	11298.	0.	-11335.	-3.	0.	3.	10.	0.	0.	0.	0.	130.	-363.	-76.	0.	0.	-225.	0.	0.	0.	562.	0.	0.	-12001.9	12001.9	0.05
161	11335.	0.	-11374.	-3.	0.	3.	10.	0.	0.	0.	0.	129.	-363.	-76.	0.	0.	-225.	0.	0.	0.	563.	0.	0.	-12040.0	12040.1	0.04
162	11374.	0.	-11414.	-3.	0.	3.	10.	0.	0.	0.	0.	129.	-362.	-76.	0.	0.	-225.	0.	0.	0.	564.	0.	0.	-12079.5	12079.5	0.04
163	11414.	0.	-11455.	-3.	0.	3.	10.	0.	0.	0.	0.	128.	-361.	-76.	0.	0.	-225.	0.	0.	0.	565.	0.	0.	-12120.2	12120.2	0.04
164	11455.	0.	-11498.	-3.	0.	3.	10.	0.	0.	0.	0.	128.	-361.	-76.	0.	0.	-225.	0.	0.	0.	566.	0.	0.	-12162.0	12162.1	0.04
165	11498.	0.	-11542.	-3.	0.	3.	10.	0.	0.	0.	0.	127.	-360.	-76.	0.	0.	-225.	0.	0.	0.	567.	0.	0.	-12205.1	12205.1	0.03
166	11542.	0.	-11586.	-3.	0.	3.	10.	0.	0.	0.	0.	126.	-359.	-76.	0.	0.	-224.	0.	0.	0.	568.	0.	0.	-12249.2	12249.2	0.03
167	11586.	0.	-11632.	-3.	0.	4.	10.	0.	0.	0.	0.	126.	-359.	-76.	0.	0.	-224.	0.	0.	0.	568.	0.	0.	-12294.4	12294.4	0.03
168	11632.	0.	-11679.	-4.	0.	4.	10.	0.	0.	0.	0.	125.	-358.	-76.	0.	0.	-224.	0.	0.	0.	569.	0.	0.	-12340.5	12340.6	0.03
169	11679.	0.	-11726.	-4.	0.	4.	10.	0.	0.	0.	0.	125.	-358.	-76.	0.	0.	-224.	0.	0.	0.	570.	0.	0.	-12387.7	12387.7	0.02
170	11726.	0.	-11775.	-4.	0.	4.	10.	0.	0.	0.	0.	124.	-357.	-76.	0.	0.	-224.	0.	0.	0.	571.	0.	0.	-12435.7	12435.8	0.02
171	11775.	0.	-11824.	-4.	0.	4.	10.	0.	0.	0.	0.	123.	-357.	-76.	0.	0.	-224.	0.	0.	0.	572.	0.	0.	-12484.7	12484.7	0.02
172	11824.	0.	-11874.	-4.	0.	4.	10.	0.	0.	0.	0.	123.	-356.	-76.	0.	0.	-224.	0.	0.	0.	573.	0.	0.	-12534.5	12534.5	0.02
173	11874.	0.	-11925.	-4.	0.	4.	10.	0.	0.	0.	0.	122.	-356.	-76.	0.	0.	-224.	0.	0.	0.	574.	0.	0.	-12585.1	12585.1	0.01
174	11925.	0.	-11977.	-4.	0.	4.	10.	0.	0.	0.	0.	121.	-356.	-76.	0.	0.	-224.	0.	0.	0.	575.	0.	0.	-12636.5	12636.5	0.01
175	11977.	0.	-12030.	-4.	0.	4.	10.	0.	0.	0.	0.	121.	-355.	-76.	0.	0.	-224.	0.	0.	0.	576.	0.	0.	-12688.6	12688.6	0.01
176	12030.	0.	-12083.	-4.	0.	4.	10.	0.	0.	0.	0.	120.	-355.	-76.	0.	0.	-224.	0.	0.	0.	577.	0.	0.	-12741.5	12741.5	0.01
177	12083.	0.	-12137.	-4.	0.	4.	10.	0.	0.	0.	0.	119.	-355.	-76.	0.	0.	-224.	0.	0.	0.	578.	0.	0.	-12795.1	12795.1	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

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 BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
178	12137.	0.	-12192.	-4.	0.	5.	10.	0.	0.	0.	0.	119.	-354.	-76.	0.	0.	-224.	0.	0.	0.	579.	0.	0.	-12850.2	12850.2	0.00
179	12192.	0.	-12257.	-5.	0.	16.	10.	0.	0.	0.	0.	118.	-354.	-76.	0.	0.	-224.	0.	0.	0.	580.	0.	0.	-12916.3	12916.3	0.00
180	12257.	0.	-12445.	-16.	0.	156.	10.	0.	0.	0.	0.	115.	-360.	-76.	0.	0.	-224.	0.	0.	0.	581.	0.	0.	-13120.4	13120.4	-0.01
181	12445.	0.	-16011.	-156.	0.	-5.	10.	0.	0.	4020.	-234.	88.	-439.	-77.	0.	0.	-224.	0.	0.	0.	582.	0.	0.	-17145.3	17145.2	-0.09

182	16011.	0.	-15958.	5.	0.	-4.	10.	0.	0.	0.	0.	89.	-435.	-77.	0.	0.	-224.	0.	0.	0.	583.	0.	0.	-16697.7	16697.6	-0.08
183	15958.	0.	-15912.	4.	0.	-4.	10.	0.	0.	0.	0.	90.	-431.	-76.	0.	0.	-223.	0.	0.	0.	584.	0.	0.	-16646.7	16646.6	-0.08
184	15912.	0.	-15871.	4.	0.	-3.	10.	0.	0.	0.	0.	90.	-427.	-76.	0.	0.	-223.	0.	0.	0.	585.	0.	0.	-16601.5	16601.5	-0.08
185	15871.	0.	-15836.	3.	0.	-3.	10.	0.	0.	0.	0.	91.	-423.	-76.	0.	0.	-223.	0.	0.	0.	586.	0.	0.	-16562.0	16561.9	-0.08
186	15836.	0.	-15806.	3.	0.	-3.	10.	0.	0.	0.	0.	91.	-420.	-76.	0.	0.	-223.	0.	0.	0.	587.	0.	0.	-16527.8	16527.7	-0.08
187	15806.	0.	-15781.	3.	0.	-2.	10.	0.	0.	0.	0.	92.	-416.	-76.	0.	0.	-223.	0.	0.	0.	588.	0.	0.	-16498.6	16498.6	-0.08
188	15781.	0.	-15760.	2.	0.	-2.	10.	0.	0.	0.	0.	92.	-413.	-76.	0.	0.	-223.	0.	0.	0.	589.	0.	0.	-16474.3	16474.3	-0.07
189	15760.	0.	-15744.	2.	0.	-1.	10.	0.	0.	0.	0.	92.	-410.	-76.	0.	0.	-223.	0.	0.	0.	590.	0.	0.	-16454.6	16454.6	-0.07
190	15744.	0.	-15732.	1.	0.	-1.	10.	0.	0.	0.	0.	93.	-407.	-76.	0.	0.	-223.	0.	0.	0.	591.	0.	0.	-16439.4	16439.3	-0.08
191	15732.	0.	-15724.	1.	0.	-1.	10.	0.	0.	0.	0.	93.	-405.	-76.	0.	0.	-223.	0.	0.	0.	592.	0.	0.	-16428.3	16428.2	-0.07
192	15724.	0.	-15720.	1.	0.	-1.	10.	0.	0.	0.	0.	93.	-402.	-76.	0.	0.	-223.	0.	0.	0.	593.	0.	0.	-16421.2	16421.2	-0.08
193	15720.	0.	-15719.	1.	0.	0.	10.	0.	0.	0.	0.	93.	-400.	-76.	0.	0.	-223.	0.	0.	0.	594.	0.	0.	-16418.0	16417.9	-0.07
194	15719.	0.	-15723.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-397.	-76.	0.	0.	-223.	0.	0.	0.	595.	0.	0.	-16418.4	16418.3	-0.07
195	15723.	0.	-15729.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-395.	-76.	0.	0.	-223.	0.	0.	0.	596.	0.	0.	-16422.5	16422.4	-0.08
196	15729.	0.	-15739.	0.	0.	0.	10.	0.	0.	0.	0.	93.	-393.	-76.	0.	0.	-223.	0.	0.	0.	597.	0.	0.	-16430.2	16430.1	-0.07
197	15739.	0.	-15752.	0.	0.	1.	10.	0.	0.	0.	0.	93.	-391.	-76.	0.	0.	-223.	0.	0.	0.	598.	0.	0.	-16441.0	16441.0	-0.07
198	15752.	0.	-15767.	-1.	0.	1.	10.	0.	0.	0.	0.	93.	-389.	-76.	0.	0.	-223.	0.	0.	0.	599.	0.	0.	-16454.9	16454.8	-0.08
199	15767.	0.	-15786.	-1.	0.	1.	10.	0.	0.	0.	0.	93.	-387.	-76.	0.	0.	-223.	0.	0.	0.	600.	0.	0.	-16471.7	16471.6	-0.08
200	15786.	0.	-15807.	-1.	0.	1.	10.	0.	0.	0.	0.	93.	-385.	-75.	0.	0.	-222.	0.	0.	0.	601.	0.	0.	-16491.2	16491.1	-0.08
201	15807.	0.	-15831.	-1.	0.	1.	10.	0.	0.	0.	0.	93.	-383.	-75.	0.	0.	-222.	0.	0.	0.	602.	0.	0.	-16513.3	16513.2	-0.08
202	15831.	0.	-15857.	-1.	0.	2.	10.	0.	0.	0.	0.	92.	-382.	-75.	0.	0.	-222.	0.	0.	0.	603.	0.	0.	-16537.9	16537.8	-0.08
203	15857.	0.	-15885.	-2.	0.	2.	10.	0.	0.	0.	0.	92.	-380.	-75.	0.	0.	-222.	0.	0.	0.	604.	0.	0.	-16564.9	16564.9	-0.08
204	15885.	0.	-15916.	-2.	0.	2.	10.	0.	0.	0.	0.	92.	-379.	-75.	0.	0.	-222.	0.	0.	0.	605.	0.	0.	-16594.3	16594.2	-0.08
205	15916.	0.	-15949.	-2.	0.	2.	10.	0.	0.	0.	0.	91.	-377.	-75.	0.	0.	-222.	0.	0.	0.	606.	0.	0.	-16625.8	16625.7	-0.08
206	15949.	0.	-15984.	-2.	0.	2.	10.	0.	0.	0.	0.	91.	-376.	-75.	0.	0.	-222.	0.	0.	0.	607.	0.	0.	-16659.4	16659.3	-0.08
207	15984.	0.	-16021.	-2.	0.	2.	10.	0.	0.	0.	0.	91.	-375.	-75.	0.	0.	-222.	0.	0.	0.	608.	0.	0.	-16695.0	16694.9	-0.09
208	16021.	0.	-16059.	-2.	0.	3.	10.	0.	0.	0.	0.	90.	-374.	-75.	0.	0.	-222.	0.	0.	0.	609.	0.	0.	-16732.5	16732.5	-0.08
209	16059.	0.	-16100.	-3.	0.	3.	10.	0.	0.	0.	0.	90.	-372.	-75.	0.	0.	-222.	0.	0.	0.	610.	0.	0.	-16771.9	16771.8	-0.09
210	16100.	0.	-16142.	-3.	0.	3.	10.	0.	0.	0.	0.	90.	-371.	-75.	0.	0.	-222.	0.	0.	0.	611.	0.	0.	-16813.0	16812.9	-0.09
211	16142.	0.	-16186.	-3.	0.	3.	10.	0.	0.	0.	0.	89.	-370.	-75.	0.	0.	-222.	0.	0.	0.	612.	0.	0.	-16855.8	16855.7	-0.09
212	16186.	0.	-16231.	-3.	0.	3.	10.	0.	0.	0.	0.	89.	-369.	-75.	0.	0.	-222.	0.	0.	0.	612.	0.	0.	-16900.2	16900.1	-0.10
213	16231.	0.	-16278.	-3.	0.	3.	10.	0.	0.	0.	0.	88.	-368.	-75.	0.	0.	-222.	0.	0.	0.	613.	0.	0.	-16946.2	16946.1	-0.09
214	16278.	0.	-16326.	-3.	0.	3.	10.	0.	0.	0.	0.	88.	-367.	-75.	0.	0.	-222.	0.	0.	0.	614.	0.	0.	-16993.6	16993.5	-0.10
215	16326.	0.	-16376.	-3.	0.	3.	10.	0.	0.	0.	0.	87.	-366.	-75.	0.	0.	-222.	0.	0.	0.	615.	0.	0.	-17042.4	17042.3	-0.10
216	16376.	0.	-16427.	-3.	0.	3.	10.	0.	0.	0.	0.	86.	-366.	-75.	0.	0.	-222.	0.	0.	0.	616.	0.	0.	-17092.6	17092.5	-0.10
217	16427.	0.	-16479.	-3.	0.	4.	10.	0.	0.	0.	0.	86.	-365.	-75.	0.	0.	-222.	0.	0.	0.	617.	0.	0.	-17144.1	17144.0	-0.10
218	16479.	0.	-16533.	-4.	0.	4.	10.	0.	0.	0.	0.	85.	-364.	-75.	0.	0.	-221.	0.	0.	0.	618.	0.	0.	-17196.8	17196.7	-0.10
219	16533.	0.	-16587.	-4.	0.	4.	10.	0.	0.	0.	0.	85.	-363.	-75.	0.	0.	-221.	0.	0.	0.	619.	0.	0.	-17250.7	17250.6	-0.11
220	16587.	0.	-16644.	-4.	0.	4.	10.	0.	0.	0.	0.	84.	-363.	-75.	0.	0.	-221.	0.	0.	0.	620.	0.	0.	-17306.2	17306.1	-0.11
221	16644.	0.	-5804.	-4.	0.	10.	10.	0.	0.	0.	******	83.	-362.	-75.	0.	0.	-221.	0.	0.	0.	621.	0.	0.	-17368.5	17368.4	-0.11
222	5804.	0.	-5858.	-10.	0.	7.	10.	0.	0.	0.	0.	82.	-361.	-75.	0.	0.	-221.	0.	0.	0.	622.	0.	0.	-6525.1	6525.0	-0.11
223	5858.	0.	-5895.	-7.	0.	-10.	10.	0.	0.	0.	0.	81.	-364.	-75.	0.	0.	-221.	0.	0.	0.	623.	0.	0.	-6571.8	6571.7	-0.11
224	5895.	0.	-5857.	10.	0.	-82.	10.	0.	0.	0.	0.	82.	-387.	-75.	0.	0.	-221.	0.	0.	0.	624.	0.	0.	-6622.2	6622.1	-0.11
405	5857.	578.	-6645.	82.	0.	33.	13.	0.	0.	0.	0.	74.	-408.	-64.	0.	0.	-58.	0.	0.	0.	537.	0.	0.	-7174.6	7174.5	-0.08
406	6645.	0.	-6724.	-33.	0.	29.	13.	0.	0.	0.	0.	72.	-416.	-65.	0.	0.	-58.	0.	0.	0.	537.	0.	0.	-7295.4	7295.3	-0.09
407	6724.	0.	-6793.	-29.	0.	24.	13.	0.	0.	0.	0.	71.	-423.	-65.	0.	0.	-58.	0.	0.	0.	536.	0.	0.	-7368.2	7368.1	-0.09
408	6793.	0.	-6854.	-24.	0.	20.	13.	0.	0.	0.	0.	69.	-430.	-65.	0.	0.	-58.	0.	0.	0.	536.	0.	0.	-7431.4	7431.3	-0.09
409	6854.	0.	-6905.	-20.	0.	13.	13.	0.	0.	0.	0.	68.	-437.	-65.	0.	0.	-58.	0.	0.	0.	535.	0.	0.	-7483.8	7483.7	-0.09
410	6905.	0.	-6941.	-13.	0.	-1.	13.	0.	0.	0.	0.	67.	-443.	-65.	0.	0.	-58.	0.	0.	0.	535.	0.	0.	-7520.8	7520.7	-0.10
411	6941.	0.	-6950.	1.	0.	-33.	13.	0.	0.	0.	0.	67.	-451.	-65.	0.	0.	-58.	0.	0.	0.	534.	0.	0.	-7557.6	7557.5	-0.10

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412  6950.   0. -6890.  33.   0. -119.  13.   0.   0.   0.   0.  69. -468. -65.   0.   0. -58.   0.   0.   0. 534.   0.   0. -7599.9  7599.8 -0.09
413  6890.   0. -6847. 119.   0.   -9.  13.   0.   0. 281. -422.  76. -511. -66.   0.   0. -58.   0.   0.   0. 534.   0.   0. -7913.3  7913.2 -0.08
414  6847.   0. -6836.   9.   0.   -9.  13.   0.   0.   0.   0.  76. -510. -66.   0.   0. -58.   0.   0.   0. 533.   0.   0. -7478.9  7478.9 -0.07
415  6836.   0. -6827.   9.   0.   -8.  13.   0.   0.   0.   0.  77. -509. -66.   0.   0. -58.   0.   0.   0. 533.   0.   0. -7468.1  7468.0 -0.07
416  6827.   0. -6818.   8.   0.   -8.  13.   0.   0.   0.   0.  77. -508. -66.   0.   0. -58.   0.   0.   0. 532.   0.   0. -7458.2  7458.2 -0.07
DISSOLVED OXYGEN LOADING FOR REACH   1: ICWW
 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
417  6818.   0. -6810.   8.   0.   -8.  13.   0.   0.   0.   0.  78. -507. -66.   0.   0. -58.   0.   0.   0. 532.   0.   0. -7449.2  7449.1 -0.07
418  6810.   0. -6803.   8.   0.   -7.  13.   0.   0.   0.   0.  78. -507. -66.   0.   0. -58.   0.   0.   0. 532.   0.   0. -7441.0  7440.9 -0.07
419  6803.   0. -6796.   7.   0.   -7.  13.   0.   0.   0.   0.  78. -506. -66.   0.   0. -58.   0.   0.   0. 531.   0.   0. -7433.4  7433.3 -0.07
420  6796.   0. -6790.   7.   0.   -7.  13.   0.   0.   0.   0.  79. -505. -66.   0.   0. -58.   0.   0.   0. 531.   0.   0. -7426.4  7426.4 -0.07
421  6790.   0. -6785.   7.   0.   -7.  13.   0.   0.   0.   0.  79. -505. -66.   0.   0. -58.   0.   0.   0. 530.   0.   0. -7420.1  7420.0 -0.06
422  6785.   0. -6779.   7.   0.   -6.  13.   0.   0.   0.   0.  80. -504. -66.   0.   0. -58.   0.   0.   0. 530.   0.   0. -7414.2  7414.1 -0.06
423  6779.   0. -6775.   6.   0.   -6.  13.   0.   0.   0.   0.  80. -504. -66.   0.   0. -58.   0.   0.   0. 530.   0.   0. -7408.7  7408.7 -0.06
424  6775.   0. -6770.   6.   0.   -6.  13.   0.   0.   0.   0.  80. -504. -66.   0.   0. -58.   0.   0.   0. 529.   0.   0. -7403.7  7403.6 -0.06
425  6770.   0. -6766.   6.   0.   -6.  13.   0.   0.   0.   0.  81. -503. -66.   0.   0. -58.   0.   0.   0. 529.   0.   0. -7399.0  7398.9 -0.06
426  6766.   0. -6762.   6.   0.   -6.  13.   0.   0.   0.   0.  81. -503. -66.   0.   0. -58.   0.   0.   0. 528.   0.   0. -7394.6  7394.5 -0.06
427  6762.   0. -6759.   6.   0.   -6.  13.   0.   0.   0.   0.  81. -502. -66.   0.   0. -58.   0.   0.   0. 528.   0.   0. -7390.5  7390.4 -0.06
428  6759.   0. -6755.   6.   0.   -6.  13.   0.   0.   0.   0.  81. -502. -66.   0.   0. -58.   0.   0.   0. 528.   0.   0. -7386.6  7386.5 -0.06
429  6755.   0. -6752.   6.   0.   -5.  13.   0.   0.   0.   0.  82. -502. -66.   0.   0. -58.   0.   0.   0. 527.   0.   0. -7382.9  7382.9 -0.06
430  6752.   0. -6749.   5.   0.   -5.  13.   0.   0.   0.   0.  82. -502. -66.   0.   0. -58.   0.   0.   0. 527.   0.   0. -7379.5  7379.4 -0.06
431  6749.   0. -6746.   5.   0.   -5.  13.   0.   0.   0.   0.  82. -501. -66.   0.   0. -58.   0.   0.   0. 526.   0.   0. -7376.1  7376.1 -0.05
432  6746.   0. -6743.   5.   0.   -5.  13.   0.   0.   0.   0.  83. -501. -66.   0.   0. -58.   0.   0.   0. 526.   0.   0. -7373.0  7372.9 -0.05
433  6743.   0. -6740.   5.   0.   -5.  13.   0.   0.   0.   0.  83. -501. -66.   0.   0. -58.   0.   0.   0. 525.   0.   0. -7369.9  7369.8 -0.05
434  6740.   0. -6737.   5.   0.   -5.  13.   0.   0.   0.   0.  83. -501. -66.   0.   0. -58.   0.   0.   0. 525.   0.   0. -7366.9  7366.9 -0.05
435  6737.   0. -6735.   5.   0.   -5.  13.   0.   0.   0.   0.  83. -501. -66.   0.   0. -58.   0.   0.   0. 525.   0.   0. -7364.0  7364.0 -0.05
436  6735.   0. -6732.   5.   0.   -5.  13.   0.   0.   0.   0.  84. -501. -66.   0.   0. -58.   0.   0.   0. 524.   0.   0. -7361.2  7361.2 -0.05
437  6732.   0. -6729.   5.   0.   -5.  13.   0.   0.   0.   0.  84. -500. -66.   0.   0. -58.   0.   0.   0. 524.   0.   0. -7358.5  7358.4 -0.05
438  6729.   0. -6727.   5.   0.   -5.  13.   0.   0.   0.   0.  84. -500. -66.   0.   0. -58.   0.   0.   0. 523.   0.   0. -7355.7  7355.7 -0.05
439  6727.   0. -6724.   5.   0.   -5.  13.   0.   0.   0.   0.  85. -500. -66.   0.   0. -58.   0.   0.   0. 523.   0.   0. -7353.0  7353.0 -0.05
440  6724.   0. -6722.   5.   0.   -5.  13.   0.   0.   0.   0.  85. -500. -65.   0.   0. -58.   0.   0.   0. 523.   0.   0. -7350.3  7350.3 -0.05
441  6722.   0. -6719.   5.   0.   -5.  13.   0.   0.   0.   0.  85. -500. -65.   0.   0. -58.   0.   0.   0. 522.   0.   0. -7347.7  7347.6 -0.05
442  6719.   0. -6717.   5.   0.   -5.  13.   0.   0.   0.   0.  85. -500. -65.   0.   0. -58.   0.   0.   0. 522.   0.   0. -7345.0  7345.0 -0.04
443  6717.   0. -6714.   5.   0.   -5.  13.   0.   0.   0.   0.  86. -500. -65.   0.   0. -58.   0.   0.   0. 521.   0.   0. -7342.3  7342.3 -0.04
444  6714.   0. -6712.   5.   0.   -5.  13.   0.   0.   0.   0.  86. -500. -65.   0.   0. -58.   0.   0.   0. 521.   0.   0. -7339.6  7339.6 -0.04
445  6712.   0. -6709.   5.   0.   -5.  13.   0.   0.   0.   0.  86. -500. -65.   0.   0. -58.   0.   0.   0. 521.   0.   0. -7336.9  7336.8 -0.04
446  6709.   0. -6706.   5.   0.   -5.  13.   0.   0.   0.   0.  86. -500. -65.   0.   0. -58.   0.   0.   0. 520.   0.   0. -7334.1  7334.1 -0.04
447  6706.   0. -6704.   5.   0.   -5.  13.   0.   0.   0.   0.  87. -500. -65.   0.   0. -58.   0.   0.   0. 520.   0.   0. -7331.3  7331.3 -0.04
448  6704.   0. -6701.   5.   0.   -5.  13.   0.   0.   0.   0.  87. -500. -65.   0.   0. -58.   0.   0.   0. 519.   0.   0. -7328.5  7328.5 -0.04
449  6701.   0. -6698.   5.   0.   -5.  13.   0.   0.   0.   0.  87. -499. -65.   0.   0. -58.   0.   0.   0. 519.   0.   0. -7325.7  7325.6 -0.04
450  6698.   0. -6695.   5.   0.   -5.  13.   0.   0.   0.   0.  88. -499. -65.   0.   0. -58.   0.   0.   0. 518.   0.   0. -7322.8  7322.7 -0.04
451  6695.   0. -6693.   5.   0.   -5.  13.   0.   0.   0.   0.  88. -499. -65.   0.   0. -58.   0.   0.   0. 518.   0.   0. -7319.8  7319.8 -0.04
452  6693.   0. -6690.   5.   0.   -5.  13.   0.   0.   0.   0.  88. -499. -65.   0.   0. -58.   0.   0.   0. 518.   0.   0. -7316.8  7316.8 -0.03
453  6690.   0. -6687.   5.   0.   -5.  13.   0.   0.   0.   0.  88. -499. -65.   0.   0. -58.   0.   0.   0. 517.   0.   0. -7313.7  7313.7 -0.03
454  6687.   0. -6684.   5.   0.   -5.  13.   0.   0.   0.   0.  89. -499. -65.   0.   0. -58.   0.   0.   0. 517.   0.   0. -7310.6  7310.6 -0.03
455  6684.   0. -6680.   5.   0.   -5.  13.   0.   0.   0.   0.  89. -499. -65.   0.   0. -58.   0.   0.   0. 516.   0.   0. -7307.4  7307.4 -0.03
456  6680.   0. -6677.   5.   0.   -5.  13.   0.   0.   0.   0.  89. -499. -65.   0.   0. -58.   0.   0.   0. 516.   0.   0. -7304.2  7304.1 -0.03
457  6677.   0. -6674.   5.   0.   -5.  13.   0.   0.   0.   0.  90. -499. -65.   0.   0. -58.   0.   0.   0. 516.   0.   0. -7300.9  7300.8 -0.03
458  6674.   0. -6671.   5.   0.   -5.  13.   0.   0.   0.   0.  90. -499. -65.   0.   0. -58.   0.   0.   0. 515.   0.   0. -7297.5  7297.5 -0.03
```

459	6671.	0.	-6667.	5.	0.	-5.	13.	0.	0.	0.	0.	90.	-499.	-64.	0.	0.	-58.	0.	0.	0.	515.	0.	0.	-7294.1	7294.0	-0.03
460	6667.	0.	-6664.	5.	0.	-5.	13.	0.	0.	0.	0.	90.	-499.	-64.	0.	0.	-58.	0.	0.	0.	514.	0.	0.	-7290.6	7290.5	-0.03
461	6664.	0.	-6660.	5.	0.	-5.	13.	0.	0.	0.	0.	91.	-499.	-64.	0.	0.	-58.	0.	0.	0.	514.	0.	0.	-7287.0	7287.0	-0.02
462	6660.	0.	-6656.	5.	0.	-5.	13.	0.	0.	0.	0.	91.	-499.	-64.	0.	0.	-58.	0.	0.	0.	514.	0.	0.	-7283.3	7283.3	-0.02
463	6656.	0.	-6652.	5.	0.	-6.	13.	0.	0.	0.	0.	91.	-499.	-64.	0.	0.	-58.	0.	0.	0.	513.	0.	0.	-7279.6	7279.6	-0.02
464	6652.	0.	-6647.	6.	0.	-7.	13.	0.	0.	0.	0.	92.	-499.	-64.	0.	0.	-58.	0.	0.	0.	513.	0.	0.	-7275.8	7275.7	-0.02
465	6647.	0.	-6639.	7.	0.	-11.	13.	0.	0.	0.	0.	92.	-500.	-64.	0.	0.	-58.	0.	0.	0.	512.	0.	0.	-7271.8	7271.8	-0.02
466	6639.	0.	-6623.	11.	0.	-20.	13.	0.	0.	0.	0.	93.	-502.	-64.	0.	0.	-58.	0.	0.	0.	512.	0.	0.	-7267.4	7267.4	-0.02
467	6623.	0.	-6585.	20.	0.	-44.	13.	0.	0.	1.	0.	94.	-511.	-64.	0.	0.	-58.	0.	0.	0.	511.	0.	0.	-7262.8	7262.8	-0.01
468	6585.	0.	-6490.	44.	0.	-100.	13.	0.	0.	0.	0.	96.	-538.	-64.	0.	0.	-58.	0.	0.	0.	511.	0.	0.	-7250.2	7250.2	0.00
469	6490.	0.	-7614.	100.	0.	-44.	13.	0.	0.	1399.	-200.	102.	-637.	-62.	0.	0.	-58.	0.	0.	0.	511.	0.	0.	-8614.9	8614.9	0.01
470	7614.	0.	-7497.	44.	0.	-40.	13.	0.	0.	0.	0.	104.	-627.	-62.	0.	0.	-58.	0.	0.	0.	510.	0.	0.	-8285.0	8285.0	0.02
471	7497.	0.	-7391.	40.	0.	-37.	13.	0.	0.	0.	0.	106.	-619.	-62.	0.	0.	-58.	0.	0.	0.	510.	0.	0.	-8166.6	8166.7	0.03
472	7391.	0.	-7294.	37.	0.	-34.	13.	0.	0.	0.	0.	108.	-611.	-62.	0.	0.	-58.	0.	0.	0.	509.	0.	0.	-8058.6	8058.6	0.04
473	7294.	0.	-7206.	34.	0.	-31.	13.	0.	0.	0.	0.	110.	-603.	-62.	0.	0.	-58.	0.	0.	0.	509.	0.	0.	-7960.0	7960.1	0.04
474	7206.	0.	-7126.	31.	0.	-28.	13.	0.	0.	0.	0.	112.	-596.	-62.	0.	0.	-58.	0.	0.	0.	509.	0.	0.	-7870.2	7870.3	0.05
475	7126.	0.	-7053.	28.	0.	-26.	13.	0.	0.	0.	0.	113.	-589.	-62.	0.	0.	-58.	0.	0.	0.	508.	0.	0.	-7788.5	7788.6	0.06

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

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	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT
476	7053.	0.	-6987.	26.	0.	-23.	13.	0.	0.	0.	0.	115.	-583.	-62.	0.	0.	-58.	0.	0.	0.	508.	0.	0.	-7714.3	7714.4	0.06
477	6987.	0.	-6928.	23.	0.	-21.	13.	0.	0.	0.	0.	116.	-578.	-62.	0.	0.	-58.	0.	0.	0.	507.	0.	0.	-7647.0	7647.1	0.07
478	6928.	0.	-6874.	21.	0.	-19.	13.	0.	0.	0.	0.	117.	-572.	-62.	0.	0.	-58.	0.	0.	0.	507.	0.	0.	-7586.1	7586.2	0.07
479	6874.	0.	-6825.	19.	0.	-18.	13.	0.	0.	0.	0.	118.	-567.	-62.	0.	0.	-58.	0.	0.	0.	507.	0.	0.	-7531.0	7531.1	0.08
480	6825.	0.	-6782.	18.	0.	-16.	13.	0.	0.	0.	0.	119.	-563.	-63.	0.	0.	-58.	0.	0.	0.	506.	0.	0.	-7481.4	7481.5	0.08
481	6782.	0.	-6743.	16.	0.	-14.	13.	0.	0.	0.	0.	120.	-559.	-63.	0.	0.	-58.	0.	0.	0.	506.	0.	0.	-7436.8	7436.8	0.08
482	6743.	0.	-6708.	14.	0.	-13.	13.	0.	0.	0.	0.	121.	-555.	-63.	0.	0.	-58.	0.	0.	0.	505.	0.	0.	-7396.7	7396.8	0.09
483	6708.	0.	-6677.	13.	0.	-12.	13.	0.	0.	0.	0.	121.	-551.	-63.	0.	0.	-58.	0.	0.	0.	505.	0.	0.	-7360.9	7361.0	0.09
484	6677.	0.	-6650.	12.	0.	-11.	13.	0.	0.	0.	0.	122.	-547.	-63.	0.	0.	-58.	0.	0.	0.	504.	0.	0.	-7329.0	7329.1	0.09
485	6650.	0.	-6626.	11.	0.	-10.	13.	0.	0.	0.	0.	123.	-544.	-63.	0.	0.	-58.	0.	0.	0.	504.	0.	0.	-7300.7	7300.8	0.10
486	6626.	0.	-6605.	10.	0.	-9.	13.	0.	0.	0.	0.	123.	-541.	-63.	0.	0.	-58.	0.	0.	0.	504.	0.	0.	-7275.6	7275.7	0.10
487	6605.	0.	-6586.	9.	0.	-8.	13.	0.	0.	0.	0.	124.	-538.	-63.	0.	0.	-58.	0.	0.	0.	503.	0.	0.	-7253.5	7253.6	0.10
488	6586.	0.	-6570.	8.	0.	-7.	13.	0.	0.	0.	0.	124.	-536.	-63.	0.	0.	-58.	0.	0.	0.	503.	0.	0.	-7234.3	7234.4	0.10
489	6570.	0.	-6557.	7.	0.	-7.	13.	0.	0.	0.	0.	124.	-533.	-63.	0.	0.	-58.	0.	0.	0.	502.	0.	0.	-7217.5	7217.6	0.10
490	6557.	0.	-6544.	7.	0.	-6.	13.	0.	0.	0.	0.	125.	-531.	-63.	0.	0.	-58.	0.	0.	0.	502.	0.	0.	-7203.0	7203.1	0.11
491	6544.	0.	-6533.	6.	0.	-7.	13.	0.	0.	0.	0.	125.	-530.	-63.	0.	0.	-58.	0.	0.	0.	502.	0.	0.	-7190.6	7190.7	0.11
492	6533.	0.	-6518.	7.	0.	-10.	13.	0.	0.	0.	0.	125.	-530.	-63.	0.	0.	-58.	0.	0.	0.	501.	0.	0.	-7179.7	7179.8	0.11
493	6518.	0.	-6635.	10.	0.	-7.	13.	0.	0.	131.	0.	126.	-537.	-63.	0.	0.	-58.	0.	0.	0.	501.	0.	0.	-7299.6	7299.7	0.11
494	6635.	0.	-6620.	7.	0.	-6.	13.	0.	0.	0.	0.	126.	-534.	-63.	0.	0.	-58.	0.	0.	0.	500.	0.	0.	-7282.0	7282.1	0.12
495	6620.	0.	-6608.	6.	0.	-6.	13.	0.	0.	0.	0.	127.	-532.	-63.	0.	0.	-58.	0.	0.	0.	500.	0.	0.	-7266.7	7266.9	0.12
496	6608.	0.	-6598.	6.	0.	-5.	13.	0.	0.	0.	0.	127.	-530.	-63.	0.	0.	-58.	0.	0.	0.	499.	0.	0.	-7253.6	7253.7	0.12
497	6598.	0.	-6589.	5.	0.	-5.	13.	0.	0.	0.	0.	127.	-528.	-63.	0.	0.	-58.	0.	0.	0.	499.	0.	0.	-7242.5	7242.6	0.12
498	6589.	0.	-6582.	5.	0.	-4.	13.	0.	0.	0.	0.	128.	-526.	-63.	0.	0.	-58.	0.	0.	0.	499.	0.	0.	-7233.1	7233.2	0.12
499	6582.	0.	-6576.	4.	0.	-4.	13.	0.	0.	0.	0.	128.	-524.	-63.	0.	0.	-58.	0.	0.	0.	498.	0.	0.	-7225.4	7225.5	0.12
500	6576.	0.	-6572.	4.	0.	-3.	13.	0.	0.	0.	0.	128.	-523.	-63.	0.	0.	-58.	0.	0.	0.	498.	0.	0.	-7219.1	7219.2	0.12
501	6572.	0.	-6569.	3.	0.	-3.	13.	0.	0.	0.	0.	128.	-521.	-63.	0.	0.	-58.	0.	0.	0.	497.	0.	0.	-7214.2	7214.4	0.12
502	6569.	0.	-6567.	3.	0.	-2.	13.	0.	0.	0.	0.	128.	-520.	-63.	0.	0.	-58.	0.	0.	0.	497.	0.	0.	-7210.6	7210.7	0.13
503	6567.	0.	-6566.	2.	0.	-2.	13.	0.	0.	0.	0.	128.	-518.	-63.	0.	0.	-58.	0.	0.	0.	497.	0.	0.	-7208.0	7208.1	0.13
504	6566.	0.	-6566.	2.	0.	-2.	13.	0.	0.	0.	0.	129.	-517.	-63.	0.	0.	-58.	0.	0.	0.	496.	0.	0.	-7206.4	7206.6	0.13
505	6566.	0.	-6567.	2.	0.	-2.	13.	0.	0.	0.	0.	129.	-516.	-63.	0.	0.	-58.	0.	0.	0.	496.	0.	0.	-7205.8	7205.9	0.13

506	6567.	0.	-6568.	2.	0.	-1.	13.	0.	0.	0.	0.	129.	-515.	-63.	0.	0.	-58.	0.	0.	0.	495.	0.	0.	-7205.9	7206.1	0.13
507	6568.	0.	-6570.	1.	0.	-1.	13.	0.	0.	0.	0.	129.	-514.	-63.	0.	0.	-58.	0.	0.	0.	495.	0.	0.	-7206.8	7206.9	0.13
508	6570.	0.	-6573.	1.	0.	-1.	13.	0.	0.	0.	0.	129.	-513.	-63.	0.	0.	-58.	0.	0.	0.	495.	0.	0.	-7208.3	7208.5	0.13
509	6573.	0.	-6576.	1.	0.	-1.	13.	0.	0.	0.	0.	129.	-512.	-63.	0.	0.	-58.	0.	0.	0.	494.	0.	0.	-7210.4	7210.6	0.13
510	6576.	0.	-6580.	1.	0.	-1.	13.	0.	0.	0.	0.	129.	-511.	-63.	0.	0.	-58.	0.	0.	0.	494.	0.	0.	-7213.0	7213.1	0.13
511	6580.	0.	-6583.	1.	0.	-1.	13.	0.	0.	0.	0.	129.	-510.	-63.	0.	0.	-58.	0.	0.	0.	493.	0.	0.	-7216.0	7216.2	0.13
512	6583.	0.	-6588.	1.	0.	-1.	13.	0.	0.	0.	0.	129.	-510.	-63.	0.	0.	-58.	0.	0.	0.	493.	0.	0.	-7219.4	7219.6	0.13
513	6588.	0.	-6592.	1.	0.	-1.	13.	0.	0.	0.	0.	129.	-509.	-63.	0.	0.	-58.	0.	0.	0.	492.	0.	0.	-7223.2	7223.3	0.13
514	6592.	0.	-6597.	1.	0.	-1.	13.	0.	0.	0.	0.	129.	-508.	-63.	0.	0.	-58.	0.	0.	0.	492.	0.	0.	-7227.2	7227.3	0.13
515	6597.	0.	-6602.	1.	0.	0.	13.	0.	0.	0.	0.	129.	-508.	-63.	0.	0.	-58.	0.	0.	0.	492.	0.	0.	-7231.4	7231.6	0.13
516	6602.	0.	-6607.	0.	0.	0.	13.	0.	0.	0.	0.	129.	-507.	-63.	0.	0.	-58.	0.	0.	0.	491.	0.	0.	-7235.9	7236.0	0.13
517	6607.	0.	-6612.	0.	0.	0.	13.	0.	0.	0.	0.	129.	-507.	-63.	0.	0.	-58.	0.	0.	0.	491.	0.	0.	-7240.4	7240.6	0.13
518	6612.	0.	-6617.	0.	0.	0.	13.	0.	0.	0.	0.	129.	-506.	-63.	0.	0.	-58.	0.	0.	0.	490.	0.	0.	-7245.1	7245.3	0.14
519	6617.	0.	-6622.	0.	0.	0.	13.	0.	0.	0.	0.	129.	-506.	-63.	0.	0.	-58.	0.	0.	0.	490.	0.	0.	-7249.9	7250.1	0.14
520	6622.	0.	-6627.	0.	0.	-1.	13.	0.	0.	0.	0.	129.	-505.	-63.	0.	0.	-58.	0.	0.	0.	490.	0.	0.	-7254.8	7254.9	0.14
521	6627.	0.	-6632.	1.	0.	-1.	13.	0.	0.	0.	0.	129.	-505.	-63.	0.	0.	-58.	0.	0.	0.	489.	0.	0.	-7259.6	7259.7	0.14
522	6632.	0.	-6636.	1.	0.	-2.	13.	0.	0.	0.	0.	129.	-505.	-63.	0.	0.	-58.	0.	0.	0.	489.	0.	0.	-7264.4	7264.6	0.14
523	6636.	0.	-6637.	2.	0.	-5.	13.	0.	0.	0.	0.	129.	-506.	-63.	0.	0.	-58.	0.	0.	0.	488.	0.	0.	-7269.0	7269.2	0.14
524	6637.	0.	-6628.	5.	0.	-12.	13.	0.	0.	0.	0.	130.	-511.	-63.	0.	0.	-58.	0.	0.	0.	488.	0.	0.	-7272.6	7272.8	0.14
525	6628.	0.	-6961.	12.	0.	-8.	13.	0.	0.	351.	0.	130.	-533.	-63.	0.	0.	-58.	0.	0.	0.	487.	0.	0.	-7623.0	7623.2	0.14
526	6961.	0.	-6940.	8.	0.	-8.	13.	0.	0.	0.	0.	131.	-531.	-62.	0.	0.	-58.	0.	0.	0.	487.	0.	0.	-7600.0	7600.1	0.14
527	6940.	0.	-6922.	8.	0.	-7.	13.	0.	0.	0.	0.	131.	-529.	-62.	0.	0.	-58.	0.	0.	0.	487.	0.	0.	-7579.1	7579.2	0.15
528	6922.	0.	-6905.	7.	0.	-7.	13.	0.	0.	0.	0.	132.	-528.	-62.	0.	0.	-58.	0.	0.	0.	486.	0.	0.	-7560.1	7560.3	0.15
529	6905.	0.	-6891.	7.	0.	-6.	13.	0.	0.	0.	0.	132.	-526.	-62.	0.	0.	-58.	0.	0.	0.	486.	0.	0.	-7543.0	7543.2	0.15
530	6891.	0.	-6877.	6.	0.	-6.	13.	0.	0.	0.	0.	132.	-524.	-62.	0.	0.	-58.	0.	0.	0.	485.	0.	0.	-7527.5	7527.7	0.15
531	6877.	0.	-6865.	6.	0.	-5.	13.	0.	0.	0.	0.	133.	-523.	-62.	0.	0.	-58.	0.	0.	0.	485.	0.	0.	-7513.6	7513.8	0.15
532	6865.	0.	-6855.	5.	0.	-5.	13.	0.	0.	0.	0.	133.	-521.	-62.	0.	0.	-58.	0.	0.	0.	485.	0.	0.	-7501.1	7501.3	0.16
533	6855.	0.	-6845.	5.	0.	-4.	13.	0.	0.	0.	0.	133.	-520.	-62.	0.	0.	-58.	0.	0.	0.	484.	0.	0.	-7489.9	7490.0	0.16
534	6845.	0.	-6837.	4.	0.	-4.	13.	0.	0.	0.	0.	133.	-519.	-62.	0.	0.	-58.	0.	0.	0.	484.	0.	0.	-7479.9	7480.0	0.16

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

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
535	6837.	0.	-6829.	4.	0.	-4.	13.	0.	0.	0.	0.	134.	-518.	-62.	0.	0.	-58.	0.	0.	0.	483.	0.	0.	-7470.9	7471.1	0.16
536	6829.	0.	-6823.	4.	0.	-4.	13.	0.	0.	0.	0.	134.	-516.	-62.	0.	0.	-58.	0.	0.	0.	483.	0.	0.	-7463.0	7463.1	0.16
537	6823.	0.	-6817.	4.	0.	-3.	13.	0.	0.	0.	0.	134.	-515.	-62.	0.	0.	-58.	0.	0.	0.	482.	0.	0.	-7455.9	7456.1	0.16
538	6817.	0.	-6812.	3.	0.	-3.	13.	0.	0.	0.	0.	134.	-514.	-62.	0.	0.	-58.	0.	0.	0.	482.	0.	0.	-7449.7	7449.8	0.16
539	6812.	0.	-6807.	3.	0.	-3.	13.	0.	0.	0.	0.	134.	-514.	-62.	0.	0.	-58.	0.	0.	0.	482.	0.	0.	-7444.2	7444.4	0.16
540	6807.	0.	-6804.	3.	0.	-3.	13.	0.	0.	0.	0.	135.	-513.	-62.	0.	0.	-58.	0.	0.	0.	481.	0.	0.	-7439.4	7439.5	0.16
541	6804.	0.	-6686.	3.	0.	-3.	13.	0.	0.	0.	-114.	135.	-512.	-62.	0.	0.	-58.	0.	0.	0.	481.	0.	0.	-7435.2	7435.3	0.17
542	6686.	0.	-6684.	3.	0.	-3.	13.	0.	0.	0.	0.	135.	-511.	-62.	0.	0.	-58.	0.	0.	0.	480.	0.	0.	-7317.5	7317.7	0.17
543	6684.	0.	-6681.	3.	0.	-2.	13.	0.	0.	0.	0.	135.	-510.	-62.	0.	0.	-58.	0.	0.	0.	480.	0.	0.	-7314.4	7314.5	0.17
544	6681.	0.	-6679.	2.	0.	-2.	13.	0.	0.	0.	0.	135.	-510.	-62.	0.	0.	-58.	0.	0.	0.	480.	0.	0.	-7311.7	7311.8	0.17
545	6679.	0.	-6678.	2.	0.	-2.	13.	0.	0.	0.	0.	135.	-509.	-62.	0.	0.	-58.	0.	0.	0.	479.	0.	0.	-7309.4	7309.5	0.17
546	6678.	0.	-6677.	2.	0.	-2.	13.	0.	0.	0.	0.	135.	-508.	-62.	0.	0.	-58.	0.	0.	0.	479.	0.	0.	-7307.4	7307.6	0.17
547	6677.	0.	-6676.	2.	0.	-2.	13.	0.	0.	0.	0.	136.	-508.	-62.	0.	0.	-58.	0.	0.	0.	478.	0.	0.	-7305.8	7306.0	0.17
548	6676.	0.	-6675.	2.	0.	-2.	13.	0.	0.	0.	0.	136.	-507.	-62.	0.	0.	-58.	0.	0.	0.	478.	0.	0.	-7304.4	7304.6	0.17
549	6675.	0.	-6674.	2.	0.	-2.	13.	0.	0.	0.	0.	136.	-507.	-62.	0.	0.	-58.	0.	0.	0.	477.	0.	0.	-7303.3	7303.4	0.17
550	6674.	0.	-6674.	2.	0.	-2.	13.	0.	0.	0.	0.	136.	-506.	-62.	0.	0.	-58.	0.	0.	0.	477.	0.	0.	-7302.3	7302.5	0.17
551	6674.	0.	-6674.	2.	0.	-1.	13.	0.	0.	0.	0.	136.	-506.	-62.	0.	0.	-58.	0.	0.	0.	477.	0.	0.	-7301.5	7301.6	0.18
552	6674.	0.	-6676.	1.	0.	1.	13.	0.	0.	0.	0.	136.	-506.	-62.	0.	0.	-58.	0.	0.	0.	476.	0.	0.	-7301.7	7301.8	0.18

553	6676.	0.	-6685.	-1.	0.	11.	13.	0.	0.	0.	0.	136.	-505.	-62.	0.	0.	-58.	0.	0.	0.	476.	0.	0.	-7311.4	7311.6	0.17
554	6685.	0.	-6726.	-11.	0.	52.	13.	0.	0.	0.	0.	135.	-505.	-62.	0.	0.	-58.	0.	0.	0.	475.	0.	0.	-7361.2	7361.4	0.17
555	6726.	0.	-6903.	-52.	0.	234.	13.	0.	0.	0.	0.	133.	-504.	-63.	0.	0.	-58.	0.	0.	0.	475.	0.	0.	-7580.3	7580.4	0.16
556	6903.	0.	-7677.	-234.	0.	1029.	13.	0.	0.	0.	0.	120.	-501.	-69.	0.	0.	-58.	0.	0.	0.	475.	0.	0.	-8539.6	8539.7	0.11

DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Black

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
225	1.	0.	-10.	0.	0.	4.	2.	0.	0.	0.	0.	-148.	-25.	-5.	0.	0.	-74.	0.	0.	0.	255.	0.	0.	-261.1	261.1	-0.01
226	10.	0.	-14.	-4.	0.	2.	2.	0.	0.	0.	0.	-151.	-23.	-4.	0.	0.	-74.	0.	0.	0.	255.	0.	0.	-268.8	268.8	-0.01
227	14.	0.	-18.	-2.	0.	1.	2.	0.	0.	0.	0.	-152.	-22.	-4.	0.	0.	-74.	0.	0.	0.	255.	0.	0.	-271.6	271.6	-0.01
228	18.	0.	-22.	-1.	0.	1.	2.	0.	0.	0.	0.	-153.	-21.	-4.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-274.7	274.7	-0.01
229	22.	0.	-25.	-1.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-4.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-278.1	278.1	-0.01
230	25.	0.	-29.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-4.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-281.7	281.7	-0.01
231	29.	0.	-33.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-285.3	285.3	-0.01
232	33.	0.	-37.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-289.0	289.0	-0.01
233	37.	0.	-40.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-292.7	292.7	-0.01
234	40.	0.	-44.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-296.4	296.4	-0.01
235	44.	0.	-48.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-300.1	300.1	-0.01
236	48.	0.	-52.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-303.8	303.8	-0.01
237	52.	0.	-56.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-307.5	307.5	-0.01
238	56.	0.	-59.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-311.2	311.2	-0.01
239	59.	0.	-63.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-315.0	315.0	-0.01
240	63.	0.	-67.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-318.7	318.7	-0.01
241	67.	0.	-71.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-322.4	322.4	0.00
242	71.	0.	-74.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-326.2	326.2	0.00
243	74.	0.	-78.	0.	0.	0.	2.	0.	0.	0.	0.	-154.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-330.0	329.9	0.00
244	78.	0.	-82.	0.	0.	-1.	2.	0.	0.	0.	0.	-153.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-333.8	333.8	0.00
245	82.	0.	-85.	1.	0.	-1.	2.	0.	0.	0.	0.	-153.	-21.	-3.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-337.8	337.8	-0.01
246	85.	0.	-89.	1.	0.	-3.	2.	0.	0.	0.	0.	-152.	-22.	-4.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-342.1	342.1	0.00
247	89.	0.	-92.	3.	0.	-5.	2.	0.	0.	0.	0.	-150.	-22.	-4.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-346.9	346.9	0.00
248	92.	0.	-95.	5.	0.	-10.	2.	0.	0.	0.	0.	-147.	-24.	-4.	0.	0.	-73.	0.	0.	0.	254.	0.	0.	-352.8	352.8	-0.01
249	95.	0.	-98.	10.	0.	-18.	2.	0.	0.	0.	0.	-140.	-28.	-4.	0.	0.	-73.	0.	0.	0.	253.	0.	0.	-360.5	360.5	-0.01
250	98.	0.	-95.	18.	0.	0.	1.	0.	0.	0.	0.	-18.	-2.	0.	0.	0.	-12.	0.	0.	0.	10.	0.	0.	-127.1	127.1	0.00
251	95.	0.	-82.	0.	0.	0.	1.	0.	0.	0.	0.	-8.	-5.	0.	0.	0.	-12.	0.	0.	0.	11.	0.	0.	-107.0	107.0	0.00
252	82.	0.	-74.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	-7.	0.	0.	0.	-12.	0.	0.	0.	11.	0.	0.	-94.6	94.6	0.00
253	74.	0.	-69.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-9.	0.	0.	0.	-12.	0.	0.	0.	11.	0.	0.	-90.5	90.5	0.00
254	69.	0.	-66.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-11.	0.	0.	0.	-12.	0.	0.	0.	12.	0.	0.	-88.9	88.9	0.00
255	66.	0.	-64.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-12.	0.	0.	0.	-12.	0.	0.	0.	12.	0.	0.	-88.2	88.2	0.00
256	64.	0.	-63.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-13.	0.	0.	0.	-12.	0.	0.	0.	12.	0.	0.	-88.2	88.2	0.00
257	63.	0.	-63.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-13.	-1.	0.	0.	-12.	0.	0.	0.	13.	0.	0.	-88.6	88.6	0.00
258	63.	0.	-63.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-1.	0.	0.	-12.	0.	0.	0.	13.	0.	0.	-89.3	89.3	0.00
259	63.	0.	-64.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-14.	-1.	0.	0.	-12.	0.	0.	0.	13.	0.	0.	-90.2	90.2	0.00
260	64.	0.	-64.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-15.	-1.	0.	0.	-12.	0.	0.	0.	13.	0.	0.	-91.5	91.5	0.00
261	64.	0.	-65.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-15.	-1.	0.	0.	-12.	0.	0.	0.	14.	0.	0.	-92.6	92.6	0.00
262	65.	0.	-66.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-15.	-1.	0.	0.	-12.	0.	0.	0.	14.	0.	0.	-93.9	93.9	0.00
263	66.	0.	-67.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-16.	-1.	0.	0.	-12.	0.	0.	0.	14.	0.	0.	-95.3	95.3	0.00
264	67.	0.	-69.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-16.	-1.	0.	0.	-12.	0.	0.	0.	15.	0.	0.	-96.7	96.7	0.00
265	69.	0.	-70.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-16.	-1.	0.	0.	-12.	0.	0.	0.	15.	0.	0.	-98.3	98.3	0.00
266	70.	0.	-72.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-16.	-1.	0.	0.	-12.	0.	0.	0.	15.	0.	0.	-99.9	99.9	0.00
267	72.	0.	-73.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-16.	-1.	0.	0.	-12.	0.	0.	0.	15.	0.	0.	-101.6	101.6	0.00

268	73.	0.	-75.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-16.	-1.	0.	0.	-12.	0.	0.	0.	16.	0.	0.	-103.3	103.3	0.00
269	75.	0.	-76.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-16.	-1.	0.	0.	-12.	0.	0.	0.	16.	0.	0.	-105.0	105.0	0.00
270	76.	0.	-78.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-16.	-1.	0.	0.	-12.	0.	0.	0.	16.	0.	0.	-106.8	106.8	0.00
271	78.	0.	-80.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-16.	-1.	0.	0.	-12.	0.	0.	0.	17.	0.	0.	-108.6	108.6	0.00
272	80.	0.	-82.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-16.	-1.	0.	0.	-12.	0.	0.	0.	17.	0.	0.	-110.4	110.4	0.00
273	82.	0.	-83.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-16.	-1.	0.	0.	-12.	0.	0.	0.	17.	0.	0.	-112.3	112.3	0.00
274	83.	0.	-85.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-16.	-1.	0.	0.	-12.	0.	0.	0.	17.	0.	0.	-114.2	114.2	0.00
275	85.	0.	-87.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-16.	-1.	0.	0.	-12.	0.	0.	0.	18.	0.	0.	-116.1	116.1	0.00
276	87.	0.	-89.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-16.	-1.	0.	0.	-12.	0.	0.	0.	18.	0.	0.	-118.1	118.1	0.00
277	89.	0.	-91.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-16.	-1.	0.	0.	-12.	0.	0.	0.	18.	0.	0.	-120.0	120.0	0.00
278	91.	0.	-93.	0.	0.	0.	1.	0.	0.	1.	0.	11.	-17.	-1.	0.	0.	-12.	0.	0.	0.	19.	0.	0.	-123.0	123.0	0.00
279	93.	0.	-95.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-12.	0.	0.	0.	19.	0.	0.	-124.5	124.5	0.00
280	95.	0.	-96.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-12.	0.	0.	0.	19.	0.	0.	-126.2	126.2	0.00
281	96.	0.	-98.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-12.	0.	0.	0.	20.	0.	0.	-128.1	128.1	0.00
282	98.	0.	-100.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-17.	-1.	0.	0.	-12.	0.	0.	0.	20.	0.	0.	-130.1	130.1	0.00
283	100.	0.	-103.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-17.	-1.	0.	0.	-12.	0.	0.	0.	20.	0.	0.	-132.2	132.2	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Black

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
284	103.	0.	-105.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-17.	-1.	0.	0.	-12.	0.	0.	0.	20.	0.	0.	-134.4	134.4	0.00
285	105.	0.	-98.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-18.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-138.6	138.6	0.00
286	98.	0.	-94.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-16.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-133.6	133.6	0.00
287	94.	0.	-92.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-15.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-130.6	130.6	0.00
288	92.	0.	-92.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-15.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-129.0	129.1	0.00
289	92.	0.	-92.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-14.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-128.4	128.4	0.00
290	92.	0.	-93.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-13.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-128.5	128.5	0.00
291	93.	0.	-94.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-13.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-128.9	128.9	0.00
292	94.	0.	-95.	0.	0.	0.	1.	0.	0.	1.	0.	16.	-13.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-130.8	130.8	0.00
293	95.	0.	-96.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-13.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-131.0	131.0	0.00
294	96.	0.	-97.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-12.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-131.5	131.5	0.00
295	97.	0.	-98.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-12.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-132.2	132.3	0.00
296	98.	0.	-99.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-11.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-133.1	133.1	0.00
297	99.	0.	-100.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-11.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-134.1	134.1	0.00
298	100.	0.	-101.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-11.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-135.0	135.0	0.00
299	101.	0.	-103.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-136.0	136.0	0.00
300	103.	0.	-104.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-136.9	136.9	0.00
301	104.	0.	-105.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-137.9	137.9	0.00
302	105.	0.	-106.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-138.7	138.7	0.00
303	106.	0.	-107.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-139.6	139.6	0.00
304	107.	0.	-108.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-140.4	140.4	0.00
305	108.	0.	-109.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-10.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-141.2	141.2	0.00
306	109.	0.	-110.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-141.9	141.9	0.00
307	110.	0.	-110.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-142.6	142.6	0.00
308	110.	0.	-111.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-143.3	143.3	0.00
309	111.	0.	-112.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-143.9	143.9	0.00
310	112.	0.	-113.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-144.5	144.5	0.00
311	113.	0.	-113.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-145.1	145.1	0.00
312	113.	0.	-114.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-10.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-146.1	146.1	0.00
313	114.	0.	-114.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-146.4	146.4	0.00
314	114.	0.	-115.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-146.7	146.7	0.00

315	115.	0.	-115.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-147.1	147.1	0.00							
316	115.	0.	-116.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-147.5	147.5	0.00							
317	116.	0.	-116.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-148.0	148.0	0.00							
318	116.	0.	-117.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-148.4	148.4	0.00							
319	117.	0.	-117.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-148.9	148.9	0.00							
320	117.	0.	-118.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-149.4	149.4	0.00							
321	118.	0.	-118.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-149.8	149.8	0.00							
322	118.	0.	-119.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-150.3	150.3	0.00							
323	119.	0.	-119.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-150.7	150.7	0.00							
324	119.	0.	-120.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-151.2	151.2	0.00							
325	120.	0.	-120.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-151.6	151.6	0.00							
326	120.	0.	-120.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-152.0	152.0	0.00							
327	120.	0.	-121.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-152.4	152.4	0.00							
328	121.	0.	-121.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-152.9	152.9	0.00							
329	121.	0.	-122.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-153.3	153.3	0.00							
330	122.	0.	-122.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-153.7	153.7	0.00							
331	122.	0.	-123.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-154.2	154.2	0.00							
332	123.	0.	-123.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-154.4	154.4	0.00							
333	123.	0.	-123.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-154.7	154.7	0.00							
334	123.	0.	-123.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-155.1	155.1	0.00							
335	123.	0.	-124.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-155.4	155.4	0.00							
336	124.	0.	-124.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-155.7	155.7	0.00							
337	124.	0.	-125.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-156.1	156.1	0.00							
338	125.	0.	-125.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-156.4	156.4	0.00							
339	125.	0.	-125.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-157.0	157.0	0.00							
340	125.	0.	-125.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-157.2	157.2	0.00							
341	125.	0.	-126.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-157.4	157.4	0.00							
342	126.	0.	-126.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-157.6	157.6	0.00							

DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Black

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
343	126.	0.	-126.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-157.9	157.9	0.00
344	126.	0.	-127.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-158.2	158.2	0.00
345	127.	0.	-127.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-158.5	158.5	0.00
346	127.	0.	-127.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-158.9	158.9	0.00
347	127.	0.	-128.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-159.2	159.2	0.00
348	128.	0.	-128.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-9.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-159.5	159.5	0.00
349	128.	0.	-128.	0.	0.	0.	1.	0.	0.	0.	0.	17.	-9.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-159.8	159.8	0.00
350	128.	0.	-129.	0.	0.	0.	1.	0.	0.	0.	0.	17.	-9.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-160.1	160.1	0.00
351	129.	0.	-129.	0.	0.	0.	1.	0.	0.	0.	0.	17.	-9.	-1.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-160.5	160.5	0.00
352	129.	0.	-121.	0.	0.	0.	1.	0.	0.	6.	0.	20.	-15.	-13.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-170.3	170.3	0.01
353	121.	0.	-112.	0.	0.	0.	1.	0.	0.	0.	0.	23.	-14.	-11.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-158.6	158.6	0.02
354	112.	0.	-105.	0.	0.	0.	1.	0.	0.	0.	0.	24.	-14.	-10.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-150.6	150.6	0.02
355	105.	0.	-102.	0.	0.	0.	1.	0.	0.	0.	0.	25.	-13.	-9.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-145.3	145.4	0.02
356	102.	0.	-100.	0.	0.	0.	1.	0.	0.	0.	0.	26.	-13.	-8.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-142.1	142.1	0.02
357	100.	0.	-99.	0.	0.	0.	1.	0.	0.	0.	0.	26.	-12.	-7.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-140.3	140.4	0.02
358	99.	0.	-100.	0.	0.	0.	1.	0.	0.	0.	0.	26.	-12.	-7.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-139.7	139.7	0.02
359	100.	0.	-101.	0.	0.	0.	1.	0.	0.	0.	0.	26.	-12.	-6.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-139.8	139.8	0.02
360	101.	0.	-102.	0.	0.	0.	1.	0.	0.	0.	0.	26.	-12.	-5.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-140.5	140.5	0.01
361	102.	0.	-104.	0.	0.	0.	1.	0.	0.	0.	0.	25.	-11.	-5.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-141.5	141.5	0.01

362	104.	0.	-106.	0.	0.	0.	1.	0.	0.	0.	0.	25.	-11.	-5.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-142.9	142.9	0.01
363	106.	0.	-108.	0.	0.	0.	1.	0.	0.	0.	0.	25.	-11.	-4.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-144.4	144.4	0.01
364	108.	0.	-110.	0.	0.	0.	1.	0.	0.	0.	0.	24.	-11.	-4.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-146.0	146.0	0.01
365	110.	0.	-112.	0.	0.	0.	1.	0.	0.	0.	0.	24.	-11.	-4.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-147.6	147.6	0.01
366	112.	0.	-114.	0.	0.	0.	1.	0.	0.	0.	0.	24.	-10.	-3.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-149.3	149.3	0.01
367	114.	0.	-116.	0.	0.	0.	1.	0.	0.	0.	0.	23.	-10.	-3.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-150.9	150.9	0.01
368	116.	0.	-118.	0.	0.	0.	1.	0.	0.	0.	0.	23.	-10.	-3.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-152.5	152.5	0.00
369	118.	0.	-120.	0.	0.	0.	1.	0.	0.	1.	0.	23.	-10.	-3.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-154.8	154.8	0.00
370	120.	0.	-122.	0.	0.	0.	1.	0.	0.	0.	0.	22.	-10.	-3.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-156.0	156.0	0.00
371	122.	0.	-123.	0.	0.	0.	1.	0.	0.	0.	0.	22.	-10.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-157.3	157.3	0.00
372	123.	0.	-125.	0.	0.	0.	1.	0.	0.	0.	0.	22.	-10.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-158.5	158.5	0.00
373	125.	0.	-571.	0.	0.	0.	1.	0.	0.	473.	0.	-1.	-15.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-611.2	611.2	-0.01
374	571.	0.	-547.	0.	0.	0.	1.	0.	0.	0.	0.	1.	-15.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-585.3	585.3	0.00
375	547.	0.	-525.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-15.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-562.8	562.8	0.00
376	525.	0.	-505.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-15.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-542.5	542.5	0.00
377	505.	0.	-486.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-14.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-523.9	523.9	0.00
378	486.	0.	-470.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-14.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-507.1	507.1	0.00
379	470.	0.	-455.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-14.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-491.8	491.8	0.00
380	455.	0.	-441.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-14.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-477.9	477.9	0.00
381	441.	0.	-429.	0.	0.	0.	1.	0.	0.	0.	0.	12.	-14.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-465.3	465.3	0.00
382	429.	0.	-417.	0.	0.	0.	1.	0.	0.	0.	0.	13.	-13.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-453.9	453.9	0.00
383	417.	0.	-407.	0.	0.	0.	1.	0.	0.	0.	0.	14.	-13.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-443.5	443.5	0.00
384	407.	0.	-398.	0.	0.	0.	1.	0.	0.	0.	0.	15.	-13.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-434.1	434.1	0.00
385	398.	0.	-390.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-13.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-425.6	425.6	0.00
386	390.	0.	-382.	0.	0.	0.	1.	0.	0.	0.	0.	16.	-13.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-417.9	417.9	0.00
387	382.	0.	-375.	0.	0.	0.	1.	0.	0.	0.	0.	17.	-13.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-410.9	410.9	0.00
388	375.	0.	-369.	0.	0.	0.	1.	0.	0.	0.	0.	18.	-13.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-404.5	404.5	0.00
389	369.	0.	-363.	0.	0.	0.	1.	0.	0.	0.	0.	18.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-398.8	398.8	0.00
390	363.	0.	-358.	0.	0.	0.	1.	0.	0.	0.	0.	19.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-393.6	393.6	0.00
391	358.	0.	-354.	0.	0.	0.	1.	0.	0.	0.	0.	19.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-388.9	388.9	0.00
392	354.	0.	-350.	0.	0.	0.	1.	0.	0.	0.	0.	19.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-384.7	384.7	0.00
393	350.	0.	-346.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-380.8	380.8	0.00
394	346.	0.	-343.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-377.4	377.4	0.00
395	343.	0.	-340.	0.	0.	0.	1.	0.	0.	0.	0.	20.	-12.	-1.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-374.3	374.3	0.00
396	340.	0.	-337.	0.	0.	0.	1.	0.	0.	0.	0.	21.	-12.	-1.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-371.5	371.5	0.00
397	337.	0.	-335.	0.	0.	0.	1.	0.	0.	0.	0.	21.	-12.	-1.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-368.9	368.9	0.00
398	335.	0.	-332.	0.	0.	0.	1.	0.	0.	0.	0.	21.	-11.	-1.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-366.7	366.7	0.00
399	332.	0.	-330.	0.	0.	0.	1.	0.	0.	0.	0.	21.	-11.	-1.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-364.6	364.6	0.00
400	330.	0.	-329.	0.	0.	0.	1.	0.	0.	0.	0.	22.	-11.	-1.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-362.8	362.8	0.00
401	329.	0.	-585.	0.	0.	0.	1.	0.	0.	259.	0.	29.	-19.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-627.1	627.1	0.01

DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Black

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	ALG PHOT	ALG RESP	MAC PHOT	TOT OUT	TOT IN
402	585.	0.	-583.	0.	0.	0.	1.	0.	0.	0.	0.	29.	-19.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-624.7	624.7	0.01
403	583.	0.	-580.	0.	0.	0.	1.	0.	0.	0.	0.	29.	-19.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-622.1	622.1	0.01
404	580.	0.	-578.	0.	0.	0.	1.	0.	0.	0.	0.	29.	-19.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-619.8	619.8	0.01

LA-QUAL calibration for Gulf ICWW and Bayou Black

FTN Field Survey calibration

INPUT/OUTPUT LOADING SUMMARY

	FLOW	DO	BOD#1	BOD#2	ORG-N	NH3-N	NO3-N	PHOS	CHL A	NCM
	m^3/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d		

HEADWATER FLOW	0.262	148.5	87.4	0.0	29.5	2.4	0.0	0.0	0.0	0.0
INCREMENTAL INFLOW	7.686	4723.2	4333.9	0.0	920.1	66.4	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	78.326	34742.4	39942.2	0.0	10262.4	711.7	4.3	0.0	0.0	0.0
WITHDRAWLS	-62.708	-23786.6	-16697.9	0.0	-7421.6	-663.1	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-23.567	-7677.0	-7826.0	0.0	-1434.6	-259.7	0.0	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		1029.3	-53.9	0.0	-874.1	27.9	335.0	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	171150.0	0.0	5770.0					0.0
NATURAL REAERATION		41580.9								
DAM REAERATION		0.0								
BACKGROUND SOD		-60743.7								
BOD#1 DECAY		-190935.8	-190935.8							
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			-7251.6	7251.6				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-30892.7				-7134.6	7134.6			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		231823.3				0.0	-22290.7	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	86.274	314047.6	215513.5	0.0	16982.0	8060.1	7473.8	0.0	0.0	0.0
TOTAL OUTPUTS	-86.274	-314035.7	-215513.7	0.0	-16982.0	-8057.3	-22290.7	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	11.9	-0.1	0.0	0.0	2.8	-14816.9	0.0	0.0	0.0

.....EXECUTION COMPLETED

Calibration output file for subsegment 120204

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LA-QUAL Version 8.11
Louisiana Department of Environmental Quality
Input file is D:\LA TMDL 2006\Additional\TO95\TT_Models\0608 MT\0608 MT - Verret\Cal\Verret_CAL_0608.txt
Output produced at 10:04 on 06/22/2008
$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$
CARD TYPE      CONTROL TITLES
TITLE01        LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
TITLE02        Calibration Simulation for Lake Verret and Grassy Lake 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                       =        0.10000 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  GL   Grassy Lake                  28.30  TO  24.80  0.1000    3.50     35      1    35
REACH ID    2  FB   Fourmile Bayou 1             24.80  TO  22.80  0.1000    2.00     20     36    55
REACH ID    3  OB   Fourmile Bayou Oxbow          4.20  TO   0.00  0.1000    4.20     42     56    97
REACH ID    4  F2   Fourmile Bayou 2             22.80  TO  19.40  0.1000    3.40     34     98   131
REACH ID    5  V3   Lake Verret 1                19.40  TO  14.50  0.1000    4.90     49    132   180
REACH ID    6  V2   Lake Verret 2                14.50  TO   2.90  0.1000   11.60    116    181   296
REACH ID    7  V1   Lake Verret 3                 2.90  TO   0.00  0.1000    2.90     29    297   325
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  GL     0.000     0.000  1343.000     0.000     0.000     1.010   0.00000   0.050
HYDR-1      2  FB     0.000     0.000   107.000     0.000     0.000     5.240   0.00000   0.050
HYDR-1      3  OB     0.000     0.000    87.000     0.000     0.000     2.500   0.00000   0.050
HYDR-1      4  F2     0.000     0.000    87.000     0.000     0.000     4.390   0.00000   0.050
HYDR-1      5  V3     0.000     0.000  1892.000     0.000     0.000     1.340   0.00000   0.050
HYDR-1      6  V2     0.000     0.000  4092.000     0.000     0.000     2.130   0.00000   0.050
HYDR-1      7  V1     0.000     0.000   767.000     0.000     0.000     1.950   0.00000   0.050
ENDATA09
$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                 RANGE      "A"          "B"          "C"          "D"
HYDR        1  GL    0.00     0.500        0.000        0.000        0.000
HYDR        2  FB    0.00     0.300        0.000        0.000        0.000
HYDR        3  OB    0.00     0.300        0.000        0.000        0.000
HYDR        4  F2    0.00     0.200        0.000        0.000        0.000
HYDR        5  V3    0.00     0.400        0.000        0.000        0.000
HYDR        6  V2    0.00     0.400        0.000        0.000        0.000
HYDR        7  V1    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  GL    33.10     0.00     5.00     0.10     0.04     0.00   100.00     0.00
INITIAL         2  FB    33.90     0.00     5.00     0.10     0.04     0.00    95.00     0.00
INITIAL         3  OB    33.90     0.00     5.00     0.10     0.04     0.00    95.00     0.00
INITIAL         4  F2    32.90     0.00     5.00     0.10     0.04     0.00    30.00     0.00
INITIAL         5  V3    32.80     0.00     5.00     0.10     0.04     0.00   100.00     0.00
INITIAL         6  V2    32.60     0.00     5.00     0.10     0.04     0.00   105.00     0.00
INITIAL         7  V1    32.50     0.00     5.00     0.10     1.10     0.00    50.00     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  GL  20 K2=a/D       0.750    0.000    0.000    0.700    0.180    0.000    0.000    0.000    0.000    0.000    0.000    0.000
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COEFF-1   2  FB   3 OCONNER-DOBB    0.000    0.000    0.000    3.000    0.210    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   3  OB   3 OCONNER-DOBB    0.000    0.000    0.000    3.000    0.210    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   4  F2   3 OCONNER-DOBB    0.000    0.000    0.000    3.000    0.210    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   5  V3  20 K2=a/D          0.750    0.000    0.000    1.500    0.160    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   6  V2  20 K2=a/D          0.750    0.000    0.000    1.500    0.160    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   7  V1  20 K2=a/D          0.750    0.000    0.000    0.700    0.200    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  GL      0.020    0.000    0.000     0.200    0.000    0.000    0.000
COEFF-2         2  FB      0.020    0.000    0.000     0.200    0.000    0.000    0.000
COEFF-2         3  OB      0.020    0.000    0.000     0.200    0.000    0.000    0.000
COEFF-2         4  F2      0.020    0.000    0.000     0.200    0.000    0.000    0.000
COEFF-2         5  V3      0.020    0.000    0.000     0.200    0.000    0.000    0.000
COEFF-2         6  V2      0.020    0.000    0.000     0.200    0.000    0.000    0.000
COEFF-2         7  V1      0.020    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
                        DEPTH     CHL A     SETT     TO SOD      GROW      RESP      GROW      RESP   SHADING
ENDATA14
$$$ DATA TYPE 15 (COLIFORM AND NONCONSERVATIVE COEFFICIENTS) $$$
CARD TYPE     REACH  ID   COLIFORM      NCM      NCM   NCM CONV
                        DIE-OFF     DECAY      SETT     TO SOD
ENDATA15
$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$
CARD TYPE     REACH  ID      OUTFLOW     INFLOW     TEMP    SALIN     CM-I    CM-II   IN/DIST  OUT/DIST
ENDATA16
$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$
CARD TYPE     REACH  ID         DO      BOD     ORG-N    NH3-N    NO3-N    BOD#2
ENDATA17
$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
 CARD TYPE     REACH  ID       PHOS     CHL A      COLI      NCM
ENDATA18
$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$
CARD TYPE     REACH  ID      BOD#1     ORG-N      COLI      NCM       DO    BOD#2
NONPOINT        1  GL   38000.00   1000.00      0.00      0.00      0.00      0.00
NONPOINT        2  FB   12000.00    800.00      0.00      0.00      0.00      0.00
NONPOINT        3  OB   10000.00    800.00      0.00      0.00      0.00      0.00
NONPOINT        4  F2   13000.00   1500.00      0.00      0.00      0.00      0.00
NONPOINT        5  V3  220000.00   3000.00      0.00      0.00      0.00      0.00
NONPOINT        6  V2  400000.00     50.00      0.00      0.00      0.00      0.00
NONPOINT        7  V1   10000.00      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    Grassy Lake            0  60.70000 2143.362   33.10     0.00     0.000     0.000   0.00
HDWTR-1       56    Fourmile Bayou Oxbow   0   8.80000  310.734   33.90     0.00     0.000     0.000   0.00
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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    Grassy Lake            6.70    23.50     1.60     0.10     0.04     0.00
HDWTR-2       56    Fourmile Bayou Oxbow   6.80    25.50     1.70     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       98     55     22.80  Fourmile Bayou Oxbow
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      26     25.80  Outflow to FB Oxbow   -8.80000 -310.73447 -200.863   33.90     0.00     0.000     0.000
WSTLD-1     132     19.40  Bayou Magazille       30.10000 1062.85315  687.041   33.10     0.00     0.000     0.000
WSTLD-1     140     18.60  NPDES Group1           0.00157    0.05544    0.036    0.00     0.00     0.000     0.000
WSTLD-1     149     17.70  LAG540112              0.00044    0.01554    0.010    0.00     0.00     0.000     0.000
WSTLD-1     208     11.80  LAG560026              0.00125    0.04414    0.029    0.00     0.00     0.000     0.000
WSTLD-1     264      6.20  NPDES Group2           0.00922    0.32556    0.210    0.00     0.00     0.000     0.000
WSTLD-1     319      0.70  NPDES Group3           0.00008    0.00282    0.002    0.00     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       26    Outflow to FB Oxbow     6.80    25.50     0.00     1.70     0.10     0.00     0.00     0.00
WSTLD-2      132    Bayou Magazille         7.60    16.80     0.00     2.40     0.10     0.00     0.20     0.00
WSTLD-2      140    NPDES Group1            5.00    69.00     0.00     2.00     1.50     0.00     2.00     0.00
WSTLD-2      149    LAG540112               5.00    69.00     0.00     2.00     1.50     0.00     2.00     0.00
WSTLD-2      208    LAG560026               5.00    46.00     0.00     2.00     1.50     0.00     2.00     0.00
WSTLD-2      264    NPDES Group2            5.00    27.20     0.00     2.00     5.72     0.00     2.00     0.00
WSTLD-2      319    NPDES Group3            5.00   103.50     0.00     2.00     1.50     0.00     2.00     0.00
ENDATA25
$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
CARD TYPE    ELEMENT   NAME                    PHOS    CHL A     COLI      NCM
                                            mg/L     mg/L     mg/L     mg/L
ENDATA26
$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$
CARD TYPE    CONSTITUENT                 CONCENTRATION
LOWER BC     TEMPERATURE                    30.800     deg C
LOWER BC     SALINITY                        0.000     ppt
LOWER BC     CONSERVATIVE MATERIAL I         0.000
LOWER BC     CONSERVATIVE MATERIAL II        0.000
LOWER BC     DISSOLVED OXYGEN                4.400     mg/L
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LOWER BC    BIOCHEMICAL OXYGEN DEMAND          2.750    mg/L
LOWER BC    ORGANIC NITROGEN                   0.000    mg/L
LOWER BC    AMMONIA NITROGEN                   0.100    mg/L
LOWER BC    NITRATE + NITRITE                  1.100    mg/L
LOWER BC    PHOSPHORUS                         0.000    mg/L
LOWER BC    CHLOROPHYLL A                      2.000    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 =   6
PLOT RCH  1  2  4  5  6  7
NUMBER OF REACHES IN PLOT 1 =   1
PLOT RCH  3
ENDATA30
$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 LakeVerret.OVL          :Lake Verret and Grassy Lake
ENDATA31
    .....NO ERRORS DETECTED IN INPUT DATA
    .....HYDRAULIC CALCULATIONS COMPLETED
    .....TRIDIAGONAL MATRIX TERMS INITIALIZED
    .....OXYGEN DEPENDENT RATES CONVERGENT IN  17 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 Verret & Grassy Lake (subsegment 120204)
   mg/L                              Calibration Simulation for Lake Verret and Grassy Lake model
 ID  RCH  ELEM      +0      +1      +2      +3      +4      +5      +6      +7      +8      +9
 GL   1    1     6.70    6.70    6.70    6.70    6.70    6.69    6.69    6.69    6.69    6.68
 GL   1   11     6.68    6.67    6.67    6.66    6.66    6.65    6.65    6.64    6.64    6.63
 GL   1   21     6.62    6.61    6.61    6.60    6.59    6.58    6.57    6.56    6.55    6.54
 GL   1   31     6.53    6.52    6.51    6.50    6.49
 FB   2   36     6.46    6.43    6.39    6.35    6.31    6.27    6.22    6.16    6.11    6.05
 FB   2   46     5.98    5.91    5.84    5.77    5.69    5.61    5.53    5.44    5.35    5.24
 F2   4   98     4.57    4.52    4.46    4.41    4.36    4.31    4.27    4.22    4.18    4.14
 F2   4  108     4.10    4.06    4.02    3.98    3.95    3.91    3.88    3.85    3.82    3.79
 F2   4  118     3.76    3.74    3.71    3.69    3.67    3.65    3.63    3.61    3.60    3.58
 F2   4  128     3.57    3.56    3.55    3.65
 V3   5  132     4.94    4.98    5.01    5.05    5.08    5.11    5.13    5.15    5.16    5.18
 V3   5  142     5.19    5.20    5.20    5.20    5.20    5.20    5.19    5.19    5.18    5.16
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V3	5	152	5.15	5.13	5.11	5.09	5.07	5.05	5.02	4.99	4.96	4.93
V3	5	162	4.90	4.86	4.83	4.79	4.75	4.72	4.68	4.63	4.59	4.55
V3	5	172	4.50	4.46	4.41	4.36	4.32	4.27	4.22	4.16	4.09	
V2	6	181	3.96	3.85	3.77	3.71	3.66	3.62	3.60	3.59	3.60	3.61
V2	6	191	3.63	3.67	3.71	3.75	3.81	3.86	3.93	3.99	4.06	4.14
V2	6	201	4.22	4.30	4.38	4.46	4.55	4.63	4.72	4.80	4.89	4.97
V2	6	211	5.06	5.14	5.23	5.31	5.39	5.47	5.55	5.63	5.70	5.77
V2	6	221	5.84	5.91	5.98	6.05	6.11	6.17	6.23	6.28	6.34	6.39
V2	6	231	6.44	6.48	6.53	6.57	6.61	6.64	6.68	6.71	6.74	6.77
V2	6	241	6.79	6.81	6.83	6.85	6.86	6.88	6.89	6.90	6.90	6.91
V2	6	251	6.91	6.91	6.90	6.90	6.89	6.88	6.87	6.86	6.84	6.83
V2	6	261	6.81	6.79	6.77	6.74	6.72	6.69	6.66	6.63	6.60	6.56
V2	6	271	6.53	6.49	6.45	6.41	6.37	6.33	6.29	6.24	6.20	6.15
V2	6	281	6.10	6.05	6.00	5.95	5.89	5.84	5.79	5.73	5.67	5.61
V2	6	291	5.55	5.49	5.43	5.37	5.31	5.27				
V1	7	297	5.25	5.23	5.21	5.19	5.16	5.13	5.11	5.07	5.04	5.01
V1	7	307	4.97	4.93	4.89	4.85	4.81	4.76	4.71	4.66	4.61	4.56
V1	7	317	4.51	4.45	4.39	4.34	4.28	4.21	4.15	4.09	4.09	
OB	3	56	6.67	6.54	6.41	6.28	6.15	6.01	5.87	5.73	5.59	5.44
OB	3	66	5.29	5.14	4.98	4.82	4.66	4.50	4.34	4.17	4.00	3.83
OB	3	76	3.65	3.48	3.30	3.12	2.93	2.75	2.56	2.37	2.18	1.99
OB	3	86	1.83	1.69	1.58	1.47	1.38	1.30	1.23	1.17	1.11	1.06
OB	3	96	1.03	1.29								

INTERMEDIATE REPORT

Effective BOD — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

mg/L — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	23.51	23.51	23.52	23.53	23.53	23.54	23.54	23.55	23.55	23.56
GL	1	11	23.56	23.57	23.57	23.58	23.58	23.58	23.59	23.59	23.59	23.59
GL	1	21	23.59	23.60	23.60	23.60	23.60	23.60	23.60	23.60	23.60	23.60
GL	1	31	23.60	23.60	23.60	23.60	23.60					
FB	2	36	23.62	23.63	23.65	23.67	23.69	23.70	23.72	23.74	23.76	23.78
FB	2	46	23.79	23.81	23.83	23.85	23.87	23.89	23.91	23.93	23.95	23.98
F2	4	98	24.50	24.51	24.51	24.52	24.52	24.53	24.53	24.54	24.54	24.55
F2	4	108	24.55	24.56	24.56	24.57	24.57	24.58	24.58	24.59	24.59	24.60
F2	4	118	24.60	24.61	24.61	24.62	24.62	24.63	24.63	24.64	24.64	24.65
F2	4	128	24.65	24.66	24.66	24.49						
V3	5	132	22.46	22.82	23.18	23.53	23.88	24.23	24.57	24.91	25.25	25.58
V3	5	142	25.92	26.24	26.57	26.89	27.21	27.53	27.84	28.15	28.46	28.77
V3	5	152	29.07	29.37	29.67	29.96	30.25	30.54	30.83	31.11	31.39	31.67
V3	5	162	31.95	32.22	32.49	32.76	33.03	33.29	33.55	33.81	34.07	34.33
V3	5	172	34.58	34.83	35.08	35.32	35.57	35.81	36.05	36.26	36.31	
V2	6	181	35.56	34.90	34.26	33.64	33.04	32.45	31.89	31.34	30.81	30.30
V2	6	191	29.80	29.31	28.85	28.39	27.95	27.52	27.11	26.71	26.32	25.94
V2	6	201	25.57	25.22	24.87	24.54	24.21	23.90	23.60	23.30	23.02	22.74
V2	6	211	22.47	22.21	21.96	21.71	21.47	21.24	21.02	20.80	20.59	20.39
V2	6	221	20.19	20.00	19.82	19.64	19.46	19.29	19.13	18.97	18.82	18.67
V2	6	231	18.52	18.38	18.24	18.11	17.98	17.86	17.74	17.62	17.51	17.40
V2	6	241	17.29	17.19	17.09	16.99	16.90	16.81	16.72	16.64	16.55	16.47
V2	6	251	16.40	16.32	16.25	16.18	16.11	16.04	15.98	15.91	15.85	15.79

V2	6	261	15.74	15.68	15.63	15.58	15.53	15.48	15.43	15.38	15.34	15.30
V2	6	271	15.25	15.21	15.17	15.14	15.10	15.06	15.03	14.99	14.96	14.93
V2	6	281	14.90	14.87	14.84	14.81	14.79	14.76	14.73	14.71	14.69	14.66
V2	6	291	14.64	14.62	14.60	14.58	14.56	14.53				
V1	7	297	14.49	14.43	14.38	14.33	14.28	14.23	14.18	14.13	14.08	14.03
V1	7	307	13.98	13.94	13.89	13.84	13.80	13.75	13.71	13.66	13.62	13.58
V1	7	317	13.53	13.49	13.45	13.41	13.37	13.33	13.28	13.14	11.74	
OB	3	56	25.52	25.55	25.57	25.59	25.62	25.64	25.66	25.69	25.71	25.74
OB	3	66	25.76	25.78	25.81	25.83	25.85	25.88	25.90	25.93	25.95	25.97
OB	3	76	26.00	26.02	26.05	26.07	26.10	26.12	26.14	26.17	26.19	26.22
OB	3	86	26.27	26.34	26.43	26.53	26.64	26.76	26.89	27.04	27.19	27.34
OB	3	96	27.47	27.28								

INTERMEDIATE REPORT

Biochemical Oxygen Demand — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

mg/L — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	23.51	23.51	23.52	23.53	23.53	23.54	23.54	23.55	23.55	23.56
GL	1	11	23.56	23.57	23.57	23.58	23.58	23.58	23.59	23.59	23.59	23.59
GL	1	21	23.59	23.60	23.60	23.60	23.60	23.60	23.60	23.60	23.60	23.60
GL	1	31	23.60	23.60	23.60	23.60	23.60					
FB	2	36	23.62	23.63	23.65	23.67	23.69	23.70	23.72	23.74	23.76	23.78
FB	2	46	23.79	23.81	23.83	23.85	23.87	23.89	23.91	23.93	23.95	23.98
F2	4	98	24.50	24.51	24.51	24.52	24.52	24.53	24.53	24.54	24.54	24.55
F2	4	108	24.55	24.56	24.56	24.57	24.57	24.58	24.58	24.59	24.59	24.60
F2	4	118	24.60	24.61	24.61	24.62	24.62	24.63	24.63	24.64	24.64	24.65
F2	4	128	24.65	24.66	24.66	24.49						
V3	5	132	22.46	22.82	23.18	23.53	23.88	24.23	24.57	24.91	25.25	25.58
V3	5	142	25.92	26.24	26.57	26.89	27.21	27.53	27.84	28.15	28.46	28.77
V3	5	152	29.07	29.37	29.67	29.96	30.25	30.54	30.83	31.11	31.39	31.67
V3	5	162	31.95	32.22	32.49	32.76	33.03	33.29	33.55	33.81	34.07	34.33
V3	5	172	34.58	34.83	35.08	35.32	35.57	35.81	36.05	36.26	36.31	
V2	6	181	35.56	34.90	34.26	33.64	33.04	32.45	31.89	31.34	30.81	30.30
V2	6	191	29.80	29.31	28.85	28.39	27.95	27.52	27.11	26.71	26.32	25.94
V2	6	201	25.57	25.22	24.87	24.54	24.21	23.90	23.60	23.30	23.02	22.74
V2	6	211	22.47	22.21	21.96	21.71	21.47	21.24	21.02	20.80	20.59	20.39
V2	6	221	20.19	20.00	19.82	19.64	19.46	19.29	19.13	18.97	18.82	18.67
V2	6	231	18.52	18.38	18.24	18.11	17.98	17.86	17.74	17.62	17.51	17.40
V2	6	241	17.29	17.19	17.09	16.99	16.90	16.81	16.72	16.64	16.55	16.47
V2	6	251	16.40	16.32	16.25	16.18	16.11	16.04	15.98	15.91	15.85	15.79
V2	6	261	15.74	15.68	15.63	15.58	15.53	15.48	15.43	15.38	15.34	15.30
V2	6	271	15.25	15.21	15.17	15.14	15.10	15.06	15.03	14.99	14.96	14.93
V2	6	281	14.90	14.87	14.84	14.81	14.79	14.76	14.73	14.71	14.69	14.66
V2	6	291	14.64	14.62	14.60	14.58	14.56	14.53				
V1	7	297	14.49	14.43	14.38	14.33	14.28	14.23	14.18	14.13	14.08	14.03
V1	7	307	13.98	13.94	13.89	13.84	13.80	13.75	13.71	13.66	13.62	13.58
V1	7	317	13.53	13.49	13.45	13.41	13.37	13.33	13.28	13.14	11.74	
OB	3	56	25.52	25.55	25.57	25.59	25.62	25.64	25.66	25.69	25.71	25.74
OB	3	66	25.76	25.78	25.81	25.83	25.85	25.88	25.90	25.93	25.95	25.97
OB	3	76	26.00	26.02	26.05	26.07	26.10	26.12	26.14	26.17	26.19	26.22
OB	3	86	26.27	26.34	26.43	26.53	26.64	26.76	26.89	27.04	27.19	27.34

OB	3	96	27.47	27.28								

INTERMEDIATE REPORT

Organic Nitrogen — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

mg/L — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	1.60	1.61	1.61	1.62	1.62	1.63	1.63	1.64	1.64	1.64
GL	1	11	1.65	1.65	1.66	1.66	1.67	1.67	1.67	1.68	1.68	1.69
GL	1	21	1.69	1.70	1.70	1.70	1.71	1.71	1.72	1.72	1.73	1.73
GL	1	31	1.74	1.74	1.75	1.75	1.76					
FB	2	36	1.77	1.77	1.78	1.79	1.80	1.81	1.82	1.82	1.83	1.84
FB	2	46	1.85	1.86	1.87	1.87	1.88	1.89	1.90	1.91	1.92	1.93
F2	4	98	2.04	2.05	2.06	2.07	2.07	2.08	2.09	2.10	2.11	2.11
F2	4	108	2.12	2.13	2.14	2.15	2.15	2.16	2.17	2.18	2.19	2.19
F2	4	118	2.20	2.21	2.22	2.23	2.23	2.24	2.25	2.26	2.27	2.27
F2	4	128	2.28	2.29	2.30	2.31						
V3	5	132	2.34	2.35	2.36	2.36	2.37	2.37	2.38	2.38	2.39	2.40
V3	5	142	2.40	2.41	2.41	2.42	2.43	2.43	2.44	2.44	2.45	2.45
V3	5	152	2.46	2.47	2.47	2.48	2.48	2.49	2.49	2.50	2.51	2.51
V3	5	162	2.52	2.52	2.53	2.53	2.54	2.55	2.55	2.56	2.56	2.57
V3	5	172	2.57	2.58	2.59	2.59	2.60	2.60	2.61	2.61	2.62	
V2	6	181	2.61	2.60	2.59	2.59	2.58	2.57	2.56	2.56	2.55	2.54
V2	6	191	2.54	2.53	2.52	2.51	2.51	2.50	2.49	2.49	2.48	2.47
V2	6	201	2.47	2.46	2.45	2.44	2.44	2.43	2.42	2.42	2.41	2.40
V2	6	211	2.40	2.39	2.38	2.38	2.37	2.36	2.36	2.35	2.34	2.34
V2	6	221	2.33	2.32	2.32	2.31	2.30	2.30	2.29	2.28	2.28	2.27
V2	6	231	2.27	2.26	2.25	2.25	2.24	2.23	2.23	2.22	2.21	2.21
V2	6	241	2.20	2.20	2.19	2.18	2.18	2.17	2.17	2.16	2.15	2.15
V2	6	251	2.14	2.14	2.13	2.12	2.12	2.11	2.11	2.10	2.09	2.09
V2	6	261	2.08	2.08	2.07	2.06	2.06	2.05	2.05	2.04	2.04	2.03
V2	6	271	2.02	2.02	2.01	2.01	2.00	2.00	1.99	1.98	1.98	1.97
V2	6	281	1.97	1.96	1.96	1.95	1.95	1.94	1.93	1.93	1.92	1.92
V2	6	291	1.91	1.91	1.90	1.90	1.89	1.89				
V1	7	297	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.88
V1	7	307	1.88	1.88	1.88	1.88	1.87	1.87	1.87	1.87	1.87	1.87
V1	7	317	1.87	1.87	1.87	1.87	1.87	1.86	1.86	1.84	1.60	
OB	3	56	1.73	1.75	1.77	1.80	1.82	1.84	1.87	1.89	1.91	1.94
OB	3	66	1.96	1.99	2.01	2.03	2.06	2.08	2.10	2.13	2.15	2.17
OB	3	76	2.20	2.22	2.24	2.27	2.29	2.31	2.34	2.36	2.38	2.41
OB	3	86	2.43	2.45	2.48	2.50	2.52	2.55	2.57	2.59	2.62	2.64
OB	3	96	2.66	2.62								

INTERMEDIATE REPORT

Ammonia Nitrogen — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

mg/L — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
GL	1	11	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09
GL	1	21	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
GL	1	31	0.09	0.09	0.09	0.09	0.09					
FB	2	36	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09

FB	2	46	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
F2	4	98	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10
F2	4	108	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
F2	4	118	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
F2	4	128	0.10	0.10	0.10	0.10						
V3	5	132	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V3	5	142	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V3	5	152	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
V3	5	162	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
V3	5	172	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	
V2	6	181	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13
V2	6	191	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
V2	6	201	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
V2	6	211	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12
V2	6	221	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
V2	6	231	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11
V2	6	241	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
V2	6	251	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
V2	6	261	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10
V2	6	271	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V2	6	281	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V2	6	291	0.10	0.10	0.10	0.10	0.10	0.10				
V1	7	297	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V1	7	307	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V1	7	317	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
OB	3	56	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
OB	3	66	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
OB	3	76	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
OB	3	86	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12
OB	3	96	0.12	0.12								

INTERMEDIATE REPORT

Nitrate+Nitrite Nitrogen — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

mg/L — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	31	0.00	0.00	0.00	0.00	0.00					
FB	2	36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FB	2	46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	128	0.00	0.00	0.00	0.00						
V3	5	132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
V2	6	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

V2	6	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	251	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	271	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	281	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	291	0.00	0.00	0.00	0.00	0.00	0.00				
V1	7	297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V1	7	307	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V1	7	317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
OB	3	56	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	96	0.00	0.00								

INTERMEDIATE REPORT

Total Nitrogen — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

mg/L — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	1.73	1.73	1.72	1.72	1.72	1.72	1.73	1.73	1.74	1.74
GL	1	11	1.74	1.75	1.75	1.76	1.76	1.77	1.77	1.77	1.78	1.78
GL	1	21	1.79	1.79	1.79	1.80	1.80	1.81	1.81	1.82	1.82	1.82
GL	1	31	1.83	1.83	1.84	1.84	1.85					
FB	2	36	1.86	1.86	1.87	1.88	1.89	1.90	1.91	1.91	1.92	1.93
FB	2	46	1.94	1.95	1.96	1.96	1.97	1.98	1.99	2.00	2.01	2.02
F2	4	98	2.14	2.14	2.15	2.16	2.17	2.18	2.19	2.19	2.20	2.21
F2	4	108	2.22	2.23	2.23	2.24	2.25	2.26	2.27	2.27	2.28	2.29
F2	4	118	2.30	2.31	2.31	2.32	2.33	2.34	2.35	2.35	2.36	2.37
F2	4	128	2.38	2.39	2.40	2.41						
V3	5	132	2.44	2.45	2.45	2.46	2.47	2.47	2.48	2.49	2.49	2.50
V3	5	142	2.50	2.51	2.52	2.52	2.53	2.53	2.54	2.55	2.55	2.56
V3	5	152	2.56	2.57	2.58	2.58	2.59	2.60	2.60	2.61	2.61	2.62
V3	5	162	2.63	2.63	2.64	2.64	2.65	2.66	2.66	2.67	2.67	2.68
V3	5	172	2.69	2.69	2.70	2.70	2.71	2.72	2.72	2.73	2.73	
V2	6	181	2.73	2.72	2.71	2.71	2.70	2.69	2.69	2.68	2.68	2.67
V2	6	191	2.66	2.66	2.65	2.64	2.64	2.63	2.62	2.62	2.61	2.60
V2	6	201	2.60	2.59	2.58	2.57	2.57	2.56	2.55	2.55	2.54	2.53
V2	6	211	2.53	2.52	2.51	2.50	2.50	2.49	2.48	2.48	2.47	2.46
V2	6	221	2.45	2.45	2.44	2.43	2.43	2.42	2.41	2.41	2.40	2.39
V2	6	231	2.38	2.38	2.37	2.36	2.36	2.35	2.34	2.34	2.33	2.32
V2	6	241	2.32	2.31	2.30	2.30	2.29	2.28	2.28	2.27	2.26	2.26
V2	6	251	2.25	2.24	2.24	2.23	2.23	2.22	2.21	2.21	2.20	2.19
V2	6	261	2.19	2.18	2.18	2.17	2.16	2.16	2.15	2.15	2.14	2.13
V2	6	271	2.13	2.12	2.12	2.11	2.10	2.10	2.09	2.09	2.08	2.07
V2	6	281	2.07	2.06	2.06	2.05	2.05	2.04	2.03	2.03	2.02	2.02
V2	6	291	2.01	2.01	2.00	2.00	1.99	1.99				

V1	7	297	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98
V1	7	307	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97
V1	7	317	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.94	1.70	
OB	3	56	1.85	1.87	1.88	1.90	1.92	1.94	1.97	1.99	2.01	2.04
OB	3	66	2.06	2.08	2.11	2.13	2.15	2.18	2.20	2.22	2.25	2.27
OB	3	76	2.30	2.32	2.34	2.37	2.39	2.41	2.44	2.46	2.49	2.51
OB	3	86	2.53	2.56	2.58	2.61	2.63	2.66	2.68	2.71	2.73	2.76
OB	3	96	2.78	2.73								

INTERMEDIATE REPORT

Chlorophyll a — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

µg/L — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	
GL	1	1	99.86	99.71	99.57	99.43	99.29	99.14	99.00	98.86	98.71	98.57	
GL	1	11	98.43	98.29	98.14	98.00	97.86	97.71	97.57	97.43	97.29	97.14	
GL	1	21	97.00	96.86	96.71	96.57	96.43	96.29	96.14	96.00	95.86	95.71	
GL	1	31	95.57	95.43	95.29	95.14	95.00						
FB	2	36	91.75	88.50	85.25	82.00	78.75	75.50	72.25	69.00	65.75	62.50	
FB	2	46	59.25	56.00	52.75	49.50	46.25	43.00	39.75	36.50	33.25	30.00	
F2	4	98	32.06	34.12	36.18	38.24	40.29	42.35	44.41	46.47	48.53	50.59	
F2	4	108	52.65	54.71	56.76	58.82	60.88	62.94	65.00	67.06	69.12	71.18	
F2	4	118	73.24	75.29	77.35	79.41	81.47	83.53	85.59	87.65	89.71	91.76	
F2	4	128	93.82	95.88	97.94	100.00							
V3	5	132	100.10	100.20	100.31	100.41	100.51	100.61	100.71	100.82	100.92	101.02	
V3	5	142	101.12	101.22	101.33	101.43	101.53	101.63	101.73	101.84	101.94	102.04	
V3	5	152	102.14	102.24	102.35	102.45	102.55	102.65	102.76	102.86	102.96	103.06	
V3	5	162	103.16	103.27	103.37	103.47	103.57	103.67	103.78	103.88	103.98	104.08	
V3	5	172	104.18	104.29	104.39	104.49	104.59	104.69	104.80	104.90	105.00		
V2	6	181	104.53	104.05	103.58	103.10	102.63	102.16	101.68	101.21	100.73	100.26	
V2	6	191	99.78	99.31	98.84	98.36	97.89	97.41	96.94	96.47	95.99	95.52	
V2	6	201	95.04	94.57	94.09	93.62	93.15	92.67	92.20	91.72	91.25	90.78	
V2	6	211	90.30	89.83	89.35	88.88	88.41	87.93	87.46	86.98	86.51	86.03	
V2	6	221	85.56	85.09	84.61	84.14	83.66	83.19	82.72	82.24	81.77	81.29	
V2	6	231	80.82	80.34	79.87	79.40	78.92	78.45	77.97	77.50	77.03	76.55	
V2	6	241	76.08	75.60	75.13	74.66	74.18	73.71	73.23	72.76	72.28	71.81	
V2	6	251	71.34	70.86	70.39	69.91	69.44	68.97	68.49	68.02	67.54	67.07	
V2	6	261	66.59	66.12	65.65	65.17	64.70	64.22	63.75	63.28	62.80	62.33	
V2	6	271	61.85	61.38	60.91	60.43	59.96	59.48	59.01	58.53	58.06	57.59	
V2	6	281	57.11	56.64	56.16	55.69	55.22	54.74	54.27	53.79	53.32	52.84	
V2	6	291	52.37	51.90	51.42	50.95	50.47	50.00					
V1	7	297	48.34	46.69	45.03	43.38	41.72	40.07	38.41	36.76	35.10	33.45	
V1	7	307	31.79	30.14	28.48	26.83	25.17	23.52	21.86	20.21	18.55	16.90	
V1	7	317	15.24	13.59	11.93	10.28	8.62	6.97	5.31	3.66	2.00		
OB	3	56	93.45	91.90	90.36	88.81	87.26	85.71	84.17	82.62	81.07	79.52	
OB	3	66	77.98	76.43	74.88	73.33	71.79	70.24	68.69	67.14	65.60	64.05	
OB	3	76	62.50	60.95	59.40	57.86	56.31	54.76	53.21	51.67	50.12	48.57	
OB	3	86	47.02	45.48	43.93	42.38	40.83	39.29	37.74	36.19	34.64	33.10	
OB	3	96	31.55	30.00									

INTERMEDIATE REPORT

Temperature — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

deg C — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	33.12	33.15	33.17	33.19	33.21	33.24	33.26	33.28	33.31	33.33
GL	1	11	33.35	33.37	33.40	33.42	33.44	33.47	33.49	33.51	33.53	33.56
GL	1	21	33.58	33.60	33.63	33.65	33.67	33.69	33.72	33.74	33.76	33.79
GL	1	31	33.81	33.83	33.85	33.88	33.90					
FB	2	36	33.85	33.80	33.75	33.70	33.65	33.60	33.55	33.50	33.45	33.40
FB	2	46	33.35	33.30	33.25	33.20	33.15	33.10	33.05	33.00	32.95	32.90
F2	4	98	32.90	32.89	32.89	32.89	32.89	32.88	32.88	32.88	32.87	32.87
F2	4	108	32.87	32.86	32.86	32.86	32.86	32.85	32.85	32.85	32.84	32.84
F2	4	118	32.84	32.84	32.83	32.83	32.83	32.82	32.82	32.82	32.81	32.81
F2	4	128	32.81	32.81	32.80	32.80						
V3	5	132	32.80	32.79	32.79	32.78	32.78	32.78	32.77	32.77	32.76	32.76
V3	5	142	32.76	32.75	32.75	32.74	32.74	32.73	32.73	32.73	32.72	32.72
V3	5	152	32.71	32.71	32.71	32.70	32.70	32.69	32.69	32.69	32.68	32.68
V3	5	162	32.67	32.67	32.67	32.66	32.66	32.65	32.65	32.64	32.64	32.64
V3	5	172	32.63	32.63	32.62	32.62	32.62	32.61	32.61	32.60	32.60	
V2	6	181	32.60	32.60	32.60	32.60	32.60	32.59	32.59	32.59	32.59	32.59
V2	6	191	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.58	32.58	32.58
V2	6	201	32.58	32.58	32.58	32.58	32.58	32.58	32.58	32.58	32.58	32.57
V2	6	211	32.57	32.57	32.57	32.57	32.57	32.57	32.57	32.57	32.57	32.57
V2	6	221	32.56	32.56	32.56	32.56	32.56	32.56	32.56	32.56	32.56	32.56
V2	6	231	32.56	32.56	32.55	32.55	32.55	32.55	32.55	32.55	32.55	32.55
V2	6	241	32.55	32.55	32.55	32.54	32.54	32.54	32.54	32.54	32.54	32.54
V2	6	251	32.54	32.54	32.54	32.54	32.54	32.53	32.53	32.53	32.53	32.53
V2	6	261	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.52	32.52	32.52
V2	6	271	32.52	32.52	32.52	32.52	32.52	32.52	32.52	32.52	32.51	32.51
V2	6	281	32.51	32.51	32.51	32.51	32.51	32.51	32.51	32.51	32.51	32.51
V2	6	291	32.50	32.50	32.50	32.50	32.50	32.50				
V1	7	297	32.44	32.38	32.32	32.27	32.21	32.15	32.09	32.03	31.97	31.91
V1	7	307	31.86	31.80	31.74	31.68	31.62	31.56	31.50	31.44	31.39	31.33
V1	7	317	31.27	31.21	31.15	31.09	31.03	30.98	30.92	30.86	30.80	
OB	3	56	33.88	33.85	33.83	33.80	33.78	33.76	33.73	33.71	33.69	33.66
OB	3	66	33.64	33.61	33.59	33.57	33.54	33.52	33.50	33.47	33.45	33.42
OB	3	76	33.40	33.38	33.35	33.33	33.30	33.28	33.26	33.23	33.21	33.19
OB	3	86	33.16	33.14	33.11	33.09	33.07	33.04	33.02	33.00	32.97	32.95
OB	3	96	32.92	32.90								

INTERMEDIATE REPORT

Salinity — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

ppt — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	31	0.00	0.00	0.00	0.00	0.00					
FB	2	36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FB	2	46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	128	0.00	0.00	0.00	0.00						

V3	5	132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
V2	6	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	251	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	271	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	281	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	291	0.00	0.00	0.00	0.00	0.00	0.00				
V1	7	297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V1	7	307	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V1	7	317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
OB	3	56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	96	0.00	0.00								

INTERMEDIATE REPORT

Reaeration Rate per day — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.942	0.942	0.943	0.943	0.943	0.944	0.944	0.944	0.945	0.945
GL	1	11	0.945	0.946	0.946	0.947	0.947	0.947	0.948	0.948	0.948	0.949
GL	1	21	0.949	0.949	0.950	0.950	0.950	0.951	0.951	0.952	0.952	0.952
GL	1	31	0.953	0.953	0.953	0.954	0.954					
FB	2	36	0.172	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.170	0.170
FB	2	46	0.170	0.170	0.170	0.170	0.170	0.169	0.169	0.169	0.169	0.169
F2	4	98	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215
F2	4	108	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215
F2	4	118	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215
F2	4	128	0.215	0.215	0.215	0.215						
V3	5	132	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706
V3	5	142	0.706	0.706	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705
V3	5	152	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705
V3	5	162	0.705	0.705	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704
V3	5	172	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704	
V2	6	181	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443
V2	6	191	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443
V2	6	201	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443
V2	6	211	0.443	0.443	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	221	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	231	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442

V2	6	241	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	251	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	261	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	271	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	281	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	291	0.442	0.442	0.442	0.442	0.442	0.442				
V1	7	297	0.482	0.482	0.481	0.481	0.480	0.480	0.479	0.479	0.479	0.478
V1	7	307	0.478	0.477	0.477	0.476	0.476	0.475	0.475	0.474	0.474	0.473
V1	7	317	0.473	0.472	0.472	0.471	0.471	0.470	0.470	0.470	0.469	
OB	3	56	0.360	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.358	0.358
OB	3	66	0.358	0.358	0.358	0.358	0.358	0.357	0.357	0.357	0.357	0.357
OB	3	76	0.357	0.357	0.357	0.356	0.356	0.356	0.356	0.356	0.356	0.356
OB	3	86	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.354	0.354	0.354
OB	3	96	0.354	0.354								

INTERMEDIATE REPORT

BOD Decay Rate per day — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
GL	1	11	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34
GL	1	21	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
GL	1	31	0.34	0.34	0.34	0.34	0.34					
FB	2	36	0.40	0.40	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
FB	2	46	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.38
F2	4	98	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
F2	4	108	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
F2	4	118	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
F2	4	128	0.38	0.38	0.38	0.38						
V3	5	132	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V3	5	142	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V3	5	152	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V3	5	162	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V3	5	172	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	
V2	6	181	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V2	6	191	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V2	6	201	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V2	6	211	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28
V2	6	221	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	231	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	241	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	251	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	261	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	271	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	281	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	291	0.28	0.28	0.28	0.28	0.28	0.28				
V1	7	297	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
V1	7	307	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
V1	7	317	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	
OB	3	56	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39
OB	3	66	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39

OB	3	76	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38
OB	3	86	0.35	0.33	0.30	0.28	0.26	0.25	0.23	0.22	0.21	0.20
OB	3	96	0.20	0.25								

INTERMEDIATE REPORT

BOD Settling Rate — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

per day — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	31	0.00	0.00	0.00	0.00	0.00					
FB	2	36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FB	2	46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	128	0.00	0.00	0.00	0.00						
V3	5	132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
V2	6	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	251	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	271	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	281	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	291	0.00	0.00	0.00	0.00	0.00	0.00				
V1	7	297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V1	7	307	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V1	7	317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
OB	3	56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	96	0.00	0.00								

INTERMEDIATE REPORT

Ammonia Decay Rate — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

per day — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.55	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
GL	1	11	0.56	0.56	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
GL	1	21	0.57	0.57	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
GL	1	31	0.58	0.58	0.58	0.59	0.59					

FB	2	36	0.58	0.58	0.58	0.57	0.57	0.57	0.57	0.56	0.56	0.56
FB	2	46	0.55	0.55	0.54	0.54	0.54	0.53	0.53	0.53	0.52	0.52
F2	4	98	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49	0.49	0.49
F2	4	108	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.47	0.47
F2	4	118	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.46
F2	4	128	0.46	0.46	0.46	0.47						
V3	5	132	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
V3	5	142	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
V3	5	152	0.51	0.51	0.51	0.51	0.51	0.50	0.50	0.50	0.50	0.50
V3	5	162	0.50	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49	0.49
V3	5	172	0.49	0.49	0.49	0.48	0.48	0.48	0.48	0.48	0.47	
V2	6	181	0.47	0.47	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
V2	6	191	0.46	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47	0.48
V2	6	201	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.50	0.50
V2	6	211	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.51	0.51	0.51
V2	6	221	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
V2	6	231	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
V2	6	241	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
V2	6	251	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
V2	6	261	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
V2	6	271	0.53	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
V2	6	281	0.52	0.52	0.52	0.52	0.51	0.51	0.51	0.51	0.51	0.51
V2	6	291	0.51	0.51	0.51	0.50	0.50	0.50				
V1	7	297	0.50	0.50	0.49	0.49	0.49	0.48	0.48	0.48	0.48	0.47
V1	7	307	0.47	0.47	0.46	0.46	0.46	0.45	0.45	0.45	0.44	0.44
V1	7	317	0.44	0.43	0.43	0.43	0.42	0.42	0.42	0.41	0.41	
OB	3	56	0.59	0.58	0.58	0.58	0.57	0.57	0.57	0.56	0.56	0.55
OB	3	66	0.55	0.55	0.54	0.53	0.53	0.52	0.52	0.51	0.50	0.50
OB	3	76	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.40	0.39
OB	3	86	0.29	0.21	0.16	0.12	0.10	0.08	0.06	0.05	0.04	0.04
OB	3	96	0.03	0.08								

INTERMEDIATE REPORT

Sediment Oxygen Demand — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

g/m²/d — Calibration Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	1.60	1.60	1.60	1.61	1.61	1.61	1.61	1.62	1.62	1.62
GL	1	11	1.62	1.63	1.63	1.63	1.63	1.63	1.64	1.64	1.64	1.64
GL	1	21	1.65	1.65	1.65	1.65	1.66	1.66	1.66	1.66	1.67	1.67
GL	1	31	1.67	1.67	1.67	1.68	1.68					
FB	2	36	7.18	7.15	7.13	7.11	7.09	7.06	7.04	7.02	7.00	6.98
FB	2	46	6.95	6.93	6.91	6.89	6.87	6.85	6.82	6.80	6.78	6.76
F2	4	98	6.76	6.76	6.76	6.75	6.75	6.75	6.75	6.75	6.75	6.75
F2	4	108	6.75	6.74	6.74	6.74	6.74	6.74	6.74	6.74	6.74	6.73
F2	4	118	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.72	6.72	6.72
F2	4	128	6.72	6.72	6.72	6.72						
V3	5	132	3.36	3.36	3.36	3.36	3.35	3.35	3.35	3.35	3.35	3.35
V3	5	142	3.35	3.35	3.35	3.35	3.35	3.34	3.34	3.34	3.34	3.34
V3	5	152	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.33	3.33	3.33
V3	5	162	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.32
V3	5	172	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	

V2	6	181	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.31
V2	6	191	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	201	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	211	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	221	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	231	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	241	3.31	3.31	3.31	3.31	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	251	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	261	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	271	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	281	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	291	3.30	3.30	3.30	3.30	3.30	3.30				
V1	7	297	1.53	1.53	1.52	1.52	1.51	1.50	1.50	1.49	1.49	1.48
V1	7	307	1.48	1.47	1.47	1.46	1.46	1.45	1.44	1.44	1.43	1.43
V1	7	317	1.42	1.42	1.41	1.41	1.40	1.40	1.39	1.39	1.38	
OB	3	56	7.19	7.18	7.17	7.16	7.15	7.13	7.12	7.11	7.10	7.09
OB	3	66	7.08	7.07	7.06	7.05	7.04	7.03	7.02	7.01	7.00	6.99
OB	3	76	6.98	6.97	6.96	6.94	6.93	6.92	6.91	6.90	6.89	6.86
OB	3	86	6.30	5.81	5.40	5.03	4.72	4.44	4.19	3.97	3.77	3.60
OB	3	96	3.49	4.36								

EXPANDED CAPSULE SUMMARY FOR Grassy Lake

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
	HDWTR		60.700	33.1	0.0	6.7	23.5	0.0	1.6	0.1	100.0												
1 GL	1	28.20	60.700	33.1	0.0	6.7	23.5	0.0	1.6	0.1	99.9	0.5	1.011	343.0	0.045	0.045	7.2	0.942	0.33	0.00	0.00	0.00	0.55	1.60
2 GL	1	28.10	60.700	33.1	0.0	6.7	23.5	0.0	1.6	0.1	99.7	0.5	1.011	343.0	0.045	0.045	7.2	0.942	0.33	0.00	0.00	0.00	0.56	1.60
3 GL	1	28.00	60.700	33.2	0.0	6.7	23.5	0.0	1.6	0.1	99.6	0.5	1.011	343.0	0.045	0.045	7.2	0.943	0.33	0.00	0.00	0.00	0.56	1.60
4 GL	1	27.90	60.700	33.2	0.0	6.7	23.5	0.0	1.6	0.1	99.4	0.5	1.011	343.0	0.045	0.045	7.2	0.943	0.33	0.00	0.00	0.00	0.56	1.61
5 GL	1	27.80	60.700	33.2	0.0	6.7	23.5	0.0	1.6	0.1	99.3	0.5	1.011	343.0	0.045	0.045	7.2	0.943	0.33	0.00	0.00	0.00	0.56	1.61
6 GL	1	27.70	60.700	33.2	0.0	6.7	23.5	0.0	1.6	0.1	99.1	0.5	1.011	343.0	0.045	0.045	7.2	0.944	0.33	0.00	0.00	0.00	0.56	1.61
7 GL	1	27.60	60.700	33.3	0.0	6.7	23.5	0.0	1.6	0.1	99.0	0.5	1.011	343.0	0.045	0.045	7.2	0.944	0.33	0.00	0.00	0.00	0.56	1.61
8 GL	1	27.50	60.700	33.3	0.0	6.7	23.5	0.0	1.6	0.1	98.9	0.5	1.011	343.0	0.045	0.045	7.1	0.944	0.33	0.00	0.00	0.00	0.56	1.62
9 GL	1	27.40	60.700	33.3	0.0	6.7	23.6	0.0	1.6	0.1	98.7	0.5	1.011	343.0	0.045	0.045	7.1	0.945	0.33	0.00	0.00	0.00	0.56	1.62
10 GL	1	27.30	60.700	33.3	0.0	6.7	23.6	0.0	1.6	0.1	98.6	0.5	1.011	343.0	0.045	0.045	7.1	0.945	0.33	0.00	0.00	0.00	0.56	1.62
11 GL	1	27.20	60.700	33.4	0.0	6.7	23.6	0.0	1.6	0.1	98.4	0.5	1.011	343.0	0.045	0.045	7.1	0.945	0.33	0.00	0.00	0.00	0.56	1.62
12 GL	1	27.10	60.700	33.4	0.0	6.7	23.6	0.0	1.7	0.1	98.3	0.5	1.011	343.0	0.045	0.045	7.1	0.946	0.33	0.00	0.00	0.00	0.56	1.63
13 GL	1	27.00	60.700	33.4	0.0	6.7	23.6	0.0	1.7	0.1	98.1	0.5	1.011	343.0	0.045	0.045	7.1	0.946	0.33	0.00	0.00	0.00	0.57	1.63
14 GL	1	26.90	60.700	33.4	0.0	6.7	23.6	0.0	1.7	0.1	98.0	0.5	1.011	343.0	0.045	0.045	7.1	0.947	0.33	0.00	0.00	0.00	0.57	1.63
15 GL	1	26.80	60.700	33.4	0.0	6.7	23.6	0.0	1.7	0.1	97.9	0.5	1.011	343.0	0.045	0.045	7.1	0.947	0.33	0.00	0.00	0.00	0.57	1.63
16 GL	1	26.70	60.700	33.5	0.0	6.7	23.6	0.0	1.7	0.1	97.7	0.5	1.011	343.0	0.045	0.045	7.1	0.947	0.33	0.00	0.00	0.00	0.57	1.63
17 GL	1	26.60	60.700	33.5	0.0	6.6	23.6	0.0	1.7	0.1	97.6	0.5	1.011	343.0	0.045	0.045	7.1	0.948	0.33	0.00	0.00	0.00	0.57	1.64
18 GL	1	26.50	60.700	33.5	0.0	6.6	23.6	0.0	1.7	0.1	97.4	0.5	1.011	343.0	0.045	0.045	7.1	0.948	0.33	0.00	0.00	0.00	0.57	1.64
19 GL	1	26.40	60.700	33.5	0.0	6.6	23.6	0.0	1.7	0.1	97.3	0.5	1.011	343.0	0.045	0.045	7.1	0.948	0.34	0.00	0.00	0.00	0.57	1.64
20 GL	1	26.30	60.700	33.6	0.0	6.6	23.6	0.0	1.7	0.1	97.1	0.5	1.011	343.0	0.045	0.045	7.1	0.949	0.34	0.00	0.00	0.00	0.57	1.64
21 GL	1	26.20	60.700	33.6	0.0	6.6	23.6	0.0	1.7	0.1	97.0	0.5	1.011	343.0	0.045	0.045	7.1	0.949	0.34	0.00	0.00	0.00	0.57	1.65
22 GL	1	26.10	60.700	33.6	0.0	6.6	23.6	0.0	1.7	0.1	96.9	0.5	1.011	343.0	0.045	0.045	7.1	0.949	0.34	0.00	0.00	0.00	0.57	1.65
23 GL	1	26.00	60.700	33.6	0.0	6.6	23.6	0.0	1.7	0.1	96.7	0.5	1.011	343.0	0.045	0.045	7.1	0.950	0.34	0.00	0.00	0.00	0.58	1.65
24 GL	1	25.90	60.700	33.6	0.0	6.6	23.6	0.0	1.7	0.1	96.6	0.5	1.011	343.0	0.045	0.045	7.1	0.950	0.34	0.00	0.00	0.00	0.58	1.65
25 GL	1	25.80	60.700	33.7	0.0	6.6	23.6	0.0	1.7	0.1	96.4	0.5	1.011	343.0	0.045	0.045	7.1	0.950	0.34	0.00	0.00	0.00	0.58	1.66

DIVERSION # 026 (Outflow to FB Oxbow) LEAVES HERE

26	GL	1	25.70	51.900	33.7	0.0	6.6	23.6	0.0	1.7	0.1	96.3	0.5	1.011	343.0	0.038	0.038	7.1	0.951	0.34	0.00	0.00	0.00	0.58	1.66
27	GL	1	25.60	51.900	33.7	0.0	6.6	23.6	0.0	1.7	0.1	96.1	0.5	1.011	343.0	0.038	0.038	7.1	0.951	0.34	0.00	0.00	0.00	0.58	1.66
28	GL	1	25.50	51.900	33.7	0.0	6.6	23.6	0.0	1.7	0.1	96.0	0.5	1.011	343.0	0.038	0.038	7.1	0.952	0.34	0.00	0.00	0.00	0.58	1.66
29	GL	1	25.40	51.900	33.8	0.0	6.6	23.6	0.0	1.7	0.1	95.9	0.5	1.011	343.0	0.038	0.038	7.1	0.952	0.34	0.00	0.00	0.00	0.58	1.67
30	GL	1	25.30	51.900	33.8	0.0	6.5	23.6	0.0	1.7	0.1	95.7	0.5	1.011	343.0	0.038	0.038	7.1	0.952	0.34	0.00	0.00	0.00	0.58	1.67
31	GL	1	25.20	51.900	33.8	0.0	6.5	23.6	0.0	1.7	0.1	95.6	0.5	1.011	343.0	0.038	0.038	7.1	0.953	0.34	0.00	0.00	0.00	0.58	1.67
32	GL	1	25.10	51.900	33.8	0.0	6.5	23.6	0.0	1.7	0.1	95.4	0.5	1.011	343.0	0.038	0.038	7.1	0.953	0.34	0.00	0.00	0.00	0.58	1.67
33	GL	1	25.00	51.900	33.9	0.0	6.5	23.6	0.0	1.7	0.1	95.3	0.5	1.011	343.0	0.038	0.038	7.1	0.953	0.34	0.00	0.00	0.00	0.58	1.67
34	GL	1	24.90	51.900	33.9	0.0	6.5	23.6	0.0	1.8	0.1	95.1	0.5	1.011	343.0	0.038	0.038	7.1	0.954	0.34	0.00	0.00	0.00	0.59	1.68
35	GL	1	24.80	51.900	33.9	0.0	6.5	23.6	0.0	1.8	0.1	95.0	0.5	1.011	343.0	0.038	0.038	7.1	0.954	0.34	0.00	0.00	0.00	0.59	1.68
36	FB	2	24.70	51.900	33.9	0.0	6.5	23.6	0.0	1.8	0.1	91.8	0.3	5.24	107.0	0.093	0.093	7.1	0.172	0.40	0.00	0.00	0.00	0.58	7.18
37	FB	2	24.60	51.900	33.8	0.0	6.4	23.6	0.0	1.8	0.1	88.5	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.40	0.00	0.00	0.00	0.58	7.15
38	FB	2	24.50	51.900	33.8	0.0	6.4	23.7	0.0	1.8	0.1	85.2	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.39	0.00	0.00	0.00	0.58	7.13
39	FB	2	24.40	51.900	33.7	0.0	6.4	23.7	0.0	1.8	0.1	82.0	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.39	0.00	0.00	0.00	0.57	7.11
40	FB	2	24.30	51.900	33.7	0.0	6.3	23.7	0.0	1.8	0.1	78.8	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.39	0.00	0.00	0.00	0.57	7.09
41	FB	2	24.20	51.900	33.6	0.0	6.3	23.7	0.0	1.8	0.1	75.5	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.39	0.00	0.00	0.00	0.57	7.06
42	FB	2	24.10	51.900	33.6	0.0	6.2	23.7	0.0	1.8	0.1	72.2	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.39	0.00	0.00	0.00	0.57	7.04
43	FB	2	24.00	51.900	33.5	0.0	6.2	23.7	0.0	1.8	0.1	69.0	0.3	5.24	107.0	0.093	0.093	7.1	0.171	0.39	0.00	0.00	0.00	0.56	7.02
44	FB	2	23.90	51.900	33.5	0.0	6.1	23.8	0.0	1.8	0.1	65.8	0.3	5.24	107.0	0.093	0.093	7.1	0.170	0.39	0.00	0.00	0.00	0.56	7.00
45	FB	2	23.80	51.900	33.4	0.0	6.0	23.8	0.0	1.8	0.1	62.5	0.3	5.24	107.0	0.093	0.093	7.1	0.170	0.39	0.00	0.00	0.00	0.56	6.98
46	FB	2	23.70	51.900	33.4	0.0	6.0	23.8	0.0	1.8	0.1	59.2	0.3	5.24	107.0	0.093	0.093	7.1	0.170	0.39	0.00	0.00	0.00	0.55	6.95
47	FB	2	23.60	51.900	33.3	0.0	5.9	23.8	0.0	1.9	0.1	56.0	0.3	5.24	107.0	0.093	0.093	7.1	0.170	0.39	0.00	0.00	0.00	0.55	6.93
48	FB	2	23.50	51.900	33.2	0.0	5.8	23.8	0.0	1.9	0.1	52.8	0.3	5.24	107.0	0.093	0.093	7.2	0.170	0.39	0.00	0.00	0.00	0.54	6.91
49	FB	2	23.40	51.900	33.2	0.0	5.8	23.9	0.0	1.9	0.1	49.5	0.3	5.24	107.0	0.093	0.093	7.2	0.170	0.39	0.00	0.00	0.00	0.54	6.89
50	FB	2	23.30	51.900	33.2	0.0	5.7	23.9	0.0	1.9	0.1	46.2	0.3	5.24	107.0	0.093	0.093	7.2	0.170	0.38	0.00	0.00	0.00	0.54	6.87
51	FB	2	23.20	51.900	33.1	0.0	5.6	23.9	0.0	1.9	0.1	43.0	0.3	5.24	107.0	0.093	0.093	7.2	0.169	0.38	0.00	0.00	0.00	0.53	6.85
52	FB	2	23.10	51.900	33.1	0.0	5.5	23.9	0.0	1.9	0.1	39.8	0.3	5.24	107.0	0.093	0.093	7.2	0.169	0.38	0.00	0.00	0.00	0.53	6.82
53	FB	2	23.00	51.900	33.0	0.0	5.4	23.9	0.0	1.9	0.1	36.5	0.3	5.24	107.0	0.093	0.093	7.2	0.169	0.38	0.00	0.00	0.00	0.53	6.80
54	FB	2	22.90	51.900	33.0	0.0	5.3	23.9	0.0	1.9	0.1	33.2	0.3	5.24	107.0	0.093	0.093	7.2	0.169	0.38	0.00	0.00	0.00	0.52	6.78
55	FB	2	22.80	51.900	32.9	0.0	5.2	24.0	0.0	1.9	0.1	30.0	0.3	5.24	107.0	0.093	0.093	7.2	0.169	0.38	0.00	0.00	0.00	0.52	6.76

TRIBUTARY # 056 (Fourmile Bayou Oxbow) ENTERS HERE

98	F2	4	22.70	60.700	32.9	0.0	4.6	24.5	0.0	2.0	0.1	32.1	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.50	6.76
99	F2	4	22.60	60.700	32.9	0.0	4.5	24.5	0.0	2.0	0.1	34.1	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.50	6.76
100	F2	4	22.50	60.700	32.9	0.0	4.5	24.5	0.0	2.1	0.1	36.2	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.50	6.76
101	F2	4	22.40	60.700	32.9	0.0	4.4	24.5	0.0	2.1	0.1	38.2	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.50	6.75
102	F2	4	22.30	60.700	32.9	0.0	4.4	24.5	0.0	2.1	0.1	40.3	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.49	6.75
103	F2	4	22.20	60.700	32.9	0.0	4.3	24.5	0.0	2.1	0.1	42.4	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.49	6.75
104	F2	4	22.10	60.700	32.9	0.0	4.3	24.5	0.0	2.1	0.1	44.4	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.49	6.75
105	F2	4	22.00	60.700	32.9	0.0	4.2	24.5	0.0	2.1	0.1	46.5	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.49	6.75
106	F2	4	21.90	60.700	32.9	0.0	4.2	24.5	0.0	2.1	0.1	48.5	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.49	6.75
107	F2	4	21.80	60.700	32.9	0.0	4.1	24.5	0.0	2.1	0.1	50.6	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.49	6.75
108	F2	4	21.70	60.700	32.9	0.0	4.1	24.6	0.0	2.1	0.1	52.6	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.75
109	F2	4	21.60	60.700	32.9	0.0	4.1	24.6	0.0	2.1	0.1	54.7	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74
110	F2	4	21.50	60.700	32.9	0.0	4.0	24.6	0.0	2.1	0.1	56.8	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74
111	F2	4	21.40	60.700	32.9	0.0	4.0	24.6	0.0	2.1	0.1	58.8	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74
112	F2	4	21.30	60.700	32.9	0.0	3.9	24.6	0.0	2.2	0.1	60.9	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74
113	F2	4	21.20	60.700	32.9	0.0	3.9	24.6	0.0	2.2	0.1	62.9	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74

EXPANDED CAPSULE SUMMARY FOR Grassy Lake

	ADVEC	MEAN	DO	REAER	BOD1	BOD1	BOD2	BOD2	NH3

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-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
114	F2 4	21.10	60.700	32.8	0.0	3.9	24.6	0.0	2.2	0.1	65.0	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74
115	F2 4	21.00	60.700	32.8	0.0	3.8	24.6	0.0	2.2	0.1	67.1	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.48	6.74
116	F2 4	20.90	60.700	32.8	0.0	3.8	24.6	0.0	2.2	0.1	69.1	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.74
117	F2 4	20.80	60.700	32.8	0.0	3.8	24.6	0.0	2.2	0.1	71.2	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73
118	F2 4	20.70	60.700	32.8	0.0	3.8	24.6	0.0	2.2	0.1	73.2	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73
119	F2 4	20.60	60.700	32.8	0.0	3.7	24.6	0.0	2.2	0.1	75.3	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73
120	F2 4	20.50	60.700	32.8	0.0	3.7	24.6	0.0	2.2	0.1	77.4	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73
121	F2 4	20.40	60.700	32.8	0.0	3.7	24.6	0.0	2.2	0.1	79.4	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73
122	F2 4	20.30	60.700	32.8	0.0	3.7	24.6	0.0	2.2	0.1	81.5	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73
123	F2 4	20.20	60.700	32.8	0.0	3.6	24.6	0.0	2.2	0.1	83.5	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73
124	F2 4	20.10	60.700	32.8	0.0	3.6	24.6	0.0	2.3	0.1	85.6	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.73
125	F2 4	20.00	60.700	32.8	0.0	3.6	24.6	0.0	2.3	0.1	87.6	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.72
126	F2 4	19.90	60.700	32.8	0.0	3.6	24.6	0.0	2.3	0.1	89.7	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.72
127	F2 4	19.80	60.700	32.8	0.0	3.6	24.6	0.0	2.3	0.1	91.8	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.46	6.72
128	F2 4	19.70	60.700	32.8	0.0	3.6	24.7	0.0	2.3	0.1	93.8	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.46	6.72
129	F2 4	19.60	60.700	32.8	0.0	3.6	24.7	0.0	2.3	0.1	95.9	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.46	6.72
130	F2 4	19.50	60.700	32.8	0.0	3.5	24.7	0.0	2.3	0.1	97.9	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.46	6.72
131	F2 4	19.40	60.700	32.8	0.0	3.7	24.5	0.0	2.3	0.1	100.0	0.2	4.39	87.0	0.159	0.159	7.2	0.215	0.38	0.00	0.00	0.00	0.47	6.72
WASTELOAD # 132 (Bayou Magazille) ENTERS HERE																								
132	V3 5	19.30	90.800	32.8	0.0	4.9	22.5	0.0	2.3	0.1	100.1	0.4	1.341	892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.36
133	V3 5	19.20	90.800	32.8	0.0	5.0	22.8	0.0	2.3	0.1	100.2	0.4	1.341	892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.36
134	V3 5	19.10	90.800	32.8	0.0	5.0	23.2	0.0	2.4	0.1	100.3	0.4	1.341	892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.36
135	V3 5	19.00	90.800	32.8	0.0	5.0	23.5	0.0	2.4	0.1	100.4	0.4	1.341	892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.36
136	V3 5	18.90	90.800	32.8	0.0	5.1	23.9	0.0	2.4	0.1	100.5	0.4	1.341	892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35
137	V3 5	18.80	90.800	32.8	0.0	5.1	24.2	0.0	2.4	0.1	100.6	0.4	1.341	892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35
138	V3 5	18.70	90.800	32.8	0.0	5.1	24.6	0.0	2.4	0.1	100.7	0.4	1.341	892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35
139	V3 5	18.60	90.800	32.8	0.0	5.1	24.9	0.0	2.4	0.1	100.8	0.4	1.341	892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35
WASTELOAD # 140 (NPDES Group1) ENTERS HERE																								
140	V3 5	18.50	90.802	32.8	0.0	5.2	25.3	0.0	2.4	0.1	100.9	0.4	1.341	892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35
141	V3 5	18.40	90.802	32.8	0.0	5.2	25.6	0.0	2.4	0.1	101.0	0.4	1.341	892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35
142	V3 5	18.30	90.802	32.8	0.0	5.2	25.9	0.0	2.4	0.1	101.1	0.4	1.341	892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35
143	V3 5	18.20	90.802	32.8	0.0	5.2	26.2	0.0	2.4	0.1	101.2	0.4	1.341	892.0	0.036	0.036	7.2	0.706	0.29	0.00	0.00	0.00	0.51	3.35
144	V3 5	18.10	90.802	32.7	0.0	5.2	26.6	0.0	2.4	0.1	101.3	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.35
145	V3 5	18.00	90.802	32.7	0.0	5.2	26.9	0.0	2.4	0.1	101.4	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.35
146	V3 5	17.90	90.802	32.7	0.0	5.2	27.2	0.0	2.4	0.1	101.5	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.35
147	V3 5	17.80	90.802	32.7	0.0	5.2	27.5	0.0	2.4	0.1	101.6	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34
148	V3 5	17.70	90.802	32.7	0.0	5.2	27.8	0.0	2.4	0.1	101.7	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34
WASTELOAD # 149 (LAG540112) ENTERS HERE																								
149	V3 5	17.60	90.802	32.7	0.0	5.2	28.2	0.0	2.4	0.1	101.8	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34
150	V3 5	17.50	90.802	32.7	0.0	5.2	28.5	0.0	2.4	0.1	101.9	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34
151	V3 5	17.40	90.802	32.7	0.0	5.2	28.8	0.0	2.5	0.1	102.0	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34
152	V3 5	17.30	90.802	32.7	0.0	5.1	29.1	0.0	2.5	0.1	102.1	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34
153	V3 5	17.20	90.802	32.7	0.0	5.1	29.4	0.0	2.5	0.1	102.2	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34
154	V3 5	17.10	90.802	32.7	0.0	5.1	29.7	0.0	2.5	0.1	102.3	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34
155	V3 5	17.00	90.802	32.7	0.0	5.1	30.0	0.0	2.5	0.1	102.4	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34
156	V3 5	16.90	90.802	32.7	0.0	5.1	30.3	0.0	2.5	0.1	102.6	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.51	3.34
157	V3 5	16.80	90.802	32.7	0.0	5.0	30.5	0.0	2.5	0.1	102.7	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.34
158	V3 5	16.70	90.802	32.7	0.0	5.0	30.8	0.0	2.5	0.1	102.8	0.4	1.341	892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.34

159	V3	5	16.60	90.802	32.7	0.0	5.0	31.1	0.0	2.5	0.1102.9	0.4	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.33
160	V3	5	16.50	90.802	32.7	0.0	5.0	31.4	0.0	2.5	0.1103.0	0.4	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.33
161	V3	5	16.40	90.802	32.7	0.0	4.9	31.7	0.0	2.5	0.1103.1	0.4	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.33
162	V3	5	16.30	90.802	32.7	0.0	4.9	31.9	0.0	2.5	0.1103.2	0.4	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.33
163	V3	5	16.20	90.802	32.7	0.0	4.9	32.2	0.0	2.5	0.1103.3	0.4	1.341892.0	0.036	0.036	7.2	0.705	0.29	0.00	0.00	0.00	0.50	3.33
164	V3	5	16.10	90.802	32.7	0.0	4.8	32.5	0.0	2.5	0.1103.4	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.50	3.33
165	V3	5	16.00	90.802	32.7	0.0	4.8	32.8	0.0	2.5	0.1103.5	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.50	3.33
166	V3	5	15.90	90.802	32.7	0.0	4.8	33.0	0.0	2.5	0.1103.6	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.50	3.33
167	V3	5	15.80	90.802	32.7	0.0	4.7	33.3	0.0	2.5	0.1103.7	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.33
168	V3	5	15.70	90.802	32.6	0.0	4.7	33.6	0.0	2.6	0.1103.8	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.33
169	V3	5	15.60	90.802	32.6	0.0	4.6	33.8	0.0	2.6	0.1103.9	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.33
170	V3	5	15.50	90.802	32.6	0.0	4.6	34.1	0.0	2.6	0.1104.0	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.33
171	V3	5	15.40	90.802	32.6	0.0	4.5	34.3	0.0	2.6	0.1104.1	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.32
172	V3	5	15.30	90.802	32.6	0.0	4.5	34.6	0.0	2.6	0.1104.2	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.32
173	V3	5	15.20	90.802	32.6	0.0	4.5	34.8	0.0	2.6	0.1104.3	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.32
174	V3	5	15.10	90.802	32.6	0.0	4.4	35.1	0.0	2.6	0.1104.4	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.49	3.32
175	V3	5	15.00	90.802	32.6	0.0	4.4	35.3	0.0	2.6	0.1104.5	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.48	3.32
176	V3	5	14.90	90.802	32.6	0.0	4.3	35.6	0.0	2.6	0.1104.6	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.48	3.32
177	V3	5	14.80	90.802	32.6	0.0	4.3	35.8	0.0	2.6	0.1104.7	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.48	3.32
178	V3	5	14.70	90.802	32.6	0.0	4.2	36.0	0.0	2.6	0.1104.8	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.48	3.32
179	V3	5	14.60	90.802	32.6	0.0	4.2	36.3	0.0	2.6	0.1104.9	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.48	3.32
180	V3	5	14.50	90.802	32.6	0.0	4.1	36.3	0.0	2.6	0.1105.0	0.4	1.341892.0	0.036	0.036	7.2	0.704	0.29	0.00	0.00	0.00	0.47	3.32
181	V2	6	14.40	90.802	32.6	0.0	4.0	35.6	0.0	2.6	0.1104.5	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.47	3.32
182	V2	6	14.30	90.802	32.6	0.0	3.9	34.9	0.0	2.6	0.1104.1	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.47	3.32
183	V2	6	14.20	90.802	32.6	0.0	3.8	34.3	0.0	2.6	0.1103.6	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32
184	V2	6	14.10	90.802	32.6	0.0	3.7	33.6	0.0	2.6	0.1103.1	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32

EXPANDED CAPSULE SUMMARY FOR Grassy Lake

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
185	V2	6	14.00	90.802	32.6	0.0	3.7	33.0	0.0	2.6	0.1102.6	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32
186	V2	6	13.90	90.802	32.6	0.0	3.6	32.5	0.0	2.6	0.1102.2	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32
187	V2	6	13.80	90.802	32.6	0.0	3.6	31.9	0.0	2.6	0.1101.7	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32
188	V2	6	13.70	90.802	32.6	0.0	3.6	31.3	0.0	2.6	0.1101.2	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32
189	V2	6	13.60	90.802	32.6	0.0	3.6	30.8	0.0	2.5	0.1100.7	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.32
190	V2	6	13.50	90.802	32.6	0.0	3.6	30.3	0.0	2.5	0.1100.3	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.31
191	V2	6	13.40	90.802	32.6	0.0	3.6	29.8	0.0	2.5	0.1 99.8	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.31
192	V2	6	13.30	90.802	32.6	0.0	3.7	29.3	0.0	2.5	0.1 99.3	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.31
193	V2	6	13.20	90.802	32.6	0.0	3.7	28.8	0.0	2.5	0.1 98.8	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.31
194	V2	6	13.10	90.802	32.6	0.0	3.8	28.4	0.0	2.5	0.1 98.4	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.31
195	V2	6	13.00	90.802	32.6	0.0	3.8	27.9	0.0	2.5	0.1 97.9	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.46	3.31
196	V2	6	12.90	90.802	32.6	0.0	3.9	27.5	0.0	2.5	0.1 97.4	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.47	3.31
197	V2	6	12.80	90.802	32.6	0.0	3.9	27.1	0.0	2.5	0.1 96.9	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.47	3.31
198	V2	6	12.70	90.802	32.6	0.0	4.0	26.7	0.0	2.5	0.1 96.5	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.47	3.31
199	V2	6	12.60	90.802	32.6	0.0	4.1	26.3	0.0	2.5	0.1 96.0	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.47	3.31
200	V2	6	12.50	90.802	32.6	0.0	4.1	25.9	0.0	2.5	0.1 95.5	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.48	3.31
201	V2	6	12.40	90.802	32.6	0.0	4.2	25.6	0.0	2.5	0.1 95.0	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.48	3.31
202	V2	6	12.30	90.802	32.6	0.0	4.3	25.2	0.0	2.5	0.1 94.6	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.48	3.31
203	V2	6	12.20	90.802	32.6	0.0	4.4	24.9	0.0	2.5	0.1 94.1	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.48	3.31
204	V2	6	12.10	90.802	32.6	0.0	4.5	24.5	0.0	2.4	0.1 93.6	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.48	3.31

205	V2	6	12.00	90.802	32.6	0.0	4.5	24.2	0.0	2.4	0.1	93.1	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.49	3.31
206	V2	6	11.90	90.802	32.6	0.0	4.6	23.9	0.0	2.4	0.1	92.7	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.49	3.31
207	V2	6	11.80	90.802	32.6	0.0	4.7	23.6	0.0	2.4	0.1	92.2	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.49	3.31
WASTELOAD # 208 (LAG560026) ENTERS HERE																								
208	V2	6	11.70	90.803	32.6	0.0	4.8	23.3	0.0	2.4	0.1	91.7	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.49	3.31
209	V2	6	11.60	90.803	32.6	0.0	4.9	23.0	0.0	2.4	0.1	91.2	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.50	3.31
210	V2	6	11.50	90.803	32.6	0.0	5.0	22.7	0.0	2.4	0.1	90.8	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.50	3.31
211	V2	6	11.40	90.803	32.6	0.0	5.1	22.5	0.0	2.4	0.1	90.3	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.50	3.31
212	V2	6	11.30	90.803	32.6	0.0	5.1	22.2	0.0	2.4	0.1	89.8	0.4	2.134092.0	0.010	0.010	7.2	0.443	0.29	0.00	0.00	0.00	0.50	3.31
213	V2	6	11.20	90.803	32.6	0.0	5.2	22.0	0.0	2.4	0.1	89.4	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.29	0.00	0.00	0.00	0.50	3.31
214	V2	6	11.10	90.803	32.6	0.0	5.3	21.7	0.0	2.4	0.1	88.9	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.29	0.00	0.00	0.00	0.51	3.31
215	V2	6	11.00	90.803	32.6	0.0	5.4	21.5	0.0	2.4	0.1	88.4	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.29	0.00	0.00	0.00	0.51	3.31
216	V2	6	10.90	90.803	32.6	0.0	5.5	21.2	0.0	2.4	0.1	87.9	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.31
217	V2	6	10.80	90.803	32.6	0.0	5.5	21.0	0.0	2.4	0.1	87.5	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.31
218	V2	6	10.70	90.803	32.6	0.0	5.6	20.8	0.0	2.3	0.1	87.0	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.31
219	V2	6	10.60	90.803	32.6	0.0	5.7	20.6	0.0	2.3	0.1	86.5	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.31
220	V2	6	10.50	90.803	32.6	0.0	5.8	20.4	0.0	2.3	0.1	86.0	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.31
221	V2	6	10.40	90.803	32.6	0.0	5.8	20.2	0.0	2.3	0.1	85.6	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
222	V2	6	10.30	90.803	32.6	0.0	5.9	20.0	0.0	2.3	0.1	85.1	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
223	V2	6	10.20	90.803	32.6	0.0	6.0	19.8	0.0	2.3	0.1	84.6	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
224	V2	6	10.10	90.803	32.6	0.0	6.0	19.6	0.0	2.3	0.1	84.1	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
225	V2	6	10.00	90.803	32.6	0.0	6.1	19.5	0.0	2.3	0.1	83.7	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
226	V2	6	9.90	90.803	32.6	0.0	6.2	19.3	0.0	2.3	0.1	83.2	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
227	V2	6	9.80	90.803	32.6	0.0	6.2	19.1	0.0	2.3	0.1	82.7	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
228	V2	6	9.70	90.803	32.6	0.0	6.3	19.0	0.0	2.3	0.1	82.2	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
229	V2	6	9.60	90.803	32.6	0.0	6.3	18.8	0.0	2.3	0.1	81.8	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
230	V2	6	9.50	90.803	32.6	0.0	6.4	18.7	0.0	2.3	0.1	81.3	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.31
231	V2	6	9.40	90.803	32.6	0.0	6.4	18.5	0.0	2.3	0.1	80.8	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
232	V2	6	9.30	90.803	32.6	0.0	6.5	18.4	0.0	2.3	0.1	80.3	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
233	V2	6	9.20	90.803	32.6	0.0	6.5	18.2	0.0	2.3	0.1	79.9	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
234	V2	6	9.10	90.803	32.6	0.0	6.6	18.1	0.0	2.2	0.1	79.4	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
235	V2	6	9.00	90.803	32.6	0.0	6.6	18.0	0.0	2.2	0.1	78.9	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
236	V2	6	8.90	90.803	32.6	0.0	6.6	17.9	0.0	2.2	0.1	78.4	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
237	V2	6	8.80	90.803	32.6	0.0	6.7	17.7	0.0	2.2	0.1	78.0	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
238	V2	6	8.70	90.803	32.5	0.0	6.7	17.6	0.0	2.2	0.1	77.5	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
239	V2	6	8.60	90.803	32.5	0.0	6.7	17.5	0.0	2.2	0.1	77.0	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
240	V2	6	8.50	90.803	32.5	0.0	6.8	17.4	0.0	2.2	0.1	76.6	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
241	V2	6	8.40	90.803	32.5	0.0	6.8	17.3	0.0	2.2	0.1	76.1	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
242	V2	6	8.30	90.803	32.5	0.0	6.8	17.2	0.0	2.2	0.1	75.6	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
243	V2	6	8.20	90.803	32.5	0.0	6.8	17.1	0.0	2.2	0.1	75.1	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
244	V2	6	8.10	90.803	32.5	0.0	6.8	17.0	0.0	2.2	0.1	74.7	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.31
245	V2	6	8.00	90.803	32.5	0.0	6.9	16.9	0.0	2.2	0.1	74.2	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
246	V2	6	7.90	90.803	32.5	0.0	6.9	16.8	0.0	2.2	0.1	73.7	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
247	V2	6	7.80	90.803	32.5	0.0	6.9	16.7	0.0	2.2	0.1	73.2	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
248	V2	6	7.70	90.803	32.5	0.0	6.9	16.6	0.0	2.2	0.1	72.8	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
249	V2	6	7.60	90.803	32.5	0.0	6.9	16.6	0.0	2.2	0.1	72.3	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
250	V2	6	7.50	90.803	32.5	0.0	6.9	16.5	0.0	2.1	0.1	71.8	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
251	V2	6	7.40	90.803	32.5	0.0	6.9	16.4	0.0	2.1	0.1	71.3	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
252	V2	6	7.30	90.803	32.5	0.0	6.9	16.3	0.0	2.1	0.1	70.9	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
253	V2	6	7.20	90.803	32.5	0.0	6.9	16.2	0.0	2.1	0.1	70.4	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30

254	V2	6	7.10	90.803	32.5	0.0	6.9	16.2	0.0	2.1	0.1	69.9	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
255	V2	6	7.00	90.803	32.5	0.0	6.9	16.1	0.0	2.1	0.1	69.4	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
256	V2	6	6.90	90.803	32.5	0.0	6.9	16.0	0.0	2.1	0.1	69.0	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
257	V2	6	6.80	90.803	32.5	0.0	6.9	16.0	0.0	2.1	0.1	68.5	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30

EXPANDED CAPSULE SUMMARY FOR Grassy Lake

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
258	V2	6	6.70	90.803	32.5	0.0	6.9	15.9	0.0	2.1	0.1	68.0	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
259	V2	6	6.60	90.803	32.5	0.0	6.8	15.9	0.0	2.1	0.1	67.5	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
260	V2	6	6.50	90.803	32.5	0.0	6.8	15.8	0.0	2.1	0.1	67.1	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
261	V2	6	6.40	90.803	32.5	0.0	6.8	15.7	0.0	2.1	0.1	66.6	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
262	V2	6	6.30	90.803	32.5	0.0	6.8	15.7	0.0	2.1	0.1	66.1	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
263	V2	6	6.20	90.803	32.5	0.0	6.8	15.6	0.0	2.1	0.1	65.6	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
WASTELOAD # 264 (NPDES Group2) ENTERS HERE																								
264	V2	6	6.10	90.812	32.5	0.0	6.7	15.6	0.0	2.1	0.1	65.2	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
265	V2	6	6.00	90.812	32.5	0.0	6.7	15.5	0.0	2.1	0.1	64.7	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
266	V2	6	5.90	90.812	32.5	0.0	6.7	15.5	0.0	2.1	0.1	64.2	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
267	V2	6	5.80	90.812	32.5	0.0	6.7	15.4	0.0	2.0	0.1	63.8	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
268	V2	6	5.70	90.812	32.5	0.0	6.6	15.4	0.0	2.0	0.1	63.3	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
269	V2	6	5.60	90.812	32.5	0.0	6.6	15.3	0.0	2.0	0.1	62.8	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
270	V2	6	5.50	90.812	32.5	0.0	6.6	15.3	0.0	2.0	0.1	62.3	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
271	V2	6	5.40	90.812	32.5	0.0	6.5	15.3	0.0	2.0	0.1	61.9	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
272	V2	6	5.30	90.812	32.5	0.0	6.5	15.2	0.0	2.0	0.1	61.4	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
273	V2	6	5.20	90.812	32.5	0.0	6.5	15.2	0.0	2.0	0.1	60.9	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
274	V2	6	5.10	90.812	32.5	0.0	6.4	15.1	0.0	2.0	0.1	60.4	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
275	V2	6	5.00	90.812	32.5	0.0	6.4	15.1	0.0	2.0	0.1	60.0	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
276	V2	6	4.90	90.812	32.5	0.0	6.3	15.1	0.0	2.0	0.1	59.5	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
277	V2	6	4.80	90.812	32.5	0.0	6.3	15.0	0.0	2.0	0.1	59.0	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
278	V2	6	4.70	90.812	32.5	0.0	6.2	15.0	0.0	2.0	0.1	58.5	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
279	V2	6	4.60	90.812	32.5	0.0	6.2	15.0	0.0	2.0	0.1	58.1	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
280	V2	6	4.50	90.812	32.5	0.0	6.1	14.9	0.0	2.0	0.1	57.6	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
281	V2	6	4.40	90.812	32.5	0.0	6.1	14.9	0.0	2.0	0.1	57.1	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
282	V2	6	4.30	90.812	32.5	0.0	6.1	14.9	0.0	2.0	0.1	56.6	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
283	V2	6	4.20	90.812	32.5	0.0	6.0	14.8	0.0	2.0	0.1	56.2	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
284	V2	6	4.10	90.812	32.5	0.0	5.9	14.8	0.0	2.0	0.1	55.7	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
285	V2	6	4.00	90.812	32.5	0.0	5.9	14.8	0.0	1.9	0.1	55.2	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
286	V2	6	3.90	90.812	32.5	0.0	5.8	14.8	0.0	1.9	0.1	54.7	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
287	V2	6	3.80	90.812	32.5	0.0	5.8	14.7	0.0	1.9	0.1	54.3	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
288	V2	6	3.70	90.812	32.5	0.0	5.7	14.7	0.0	1.9	0.1	53.8	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
289	V2	6	3.60	90.812	32.5	0.0	5.7	14.7	0.0	1.9	0.1	53.3	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
290	V2	6	3.50	90.812	32.5	0.0	5.6	14.7	0.0	1.9	0.1	52.8	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
291	V2	6	3.40	90.812	32.5	0.0	5.6	14.6	0.0	1.9	0.1	52.4	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
292	V2	6	3.30	90.812	32.5	0.0	5.5	14.6	0.0	1.9	0.1	51.9	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
293	V2	6	3.20	90.812	32.5	0.0	5.4	14.6	0.0	1.9	0.1	51.4	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.51	3.30
294	V2	6	3.10	90.812	32.5	0.0	5.4	14.6	0.0	1.9	0.1	50.9	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.50	3.30
295	V2	6	3.00	90.812	32.5	0.0	5.3	14.6	0.0	1.9	0.1	50.5	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.50	3.30
296	V2	6	2.90	90.812	32.5	0.0	5.3	14.5	0.0	1.9	0.1	50.0	0.4	2.134092.0	0.010	0.010	7.2	0.442	0.28	0.00	0.00	0.00	0.50	3.30
297	V1	7	2.80	90.812	32.4	0.0	5.3	14.5	0.0	1.9	0.1	48.3	0.5	1.95 767.0	0.061	0.061	7.3	0.482	0.35	0.00	0.00	0.00	0.50	1.53
298	V1	7	2.70	90.812	32.4	0.0	5.2	14.4	0.0	1.9	0.1	46.7	0.5	1.95 767.0	0.061	0.061	7.3	0.482	0.35	0.00	0.00	0.00	0.50	1.53

299	V1	7	2.60	90.812	32.3	0.0	5.2	14.4	0.0	1.9	0.1	45.0	0.5	1.95	767.0	0.061	0.061	7.3	0.481	0.35	0.00	0.00	0.00	0.49	1.52
300	V1	7	2.50	90.812	32.3	0.0	5.2	14.3	0.0	1.9	0.1	43.4	0.5	1.95	767.0	0.061	0.061	7.3	0.481	0.35	0.00	0.00	0.00	0.49	1.52
301	V1	7	2.40	90.812	32.2	0.0	5.2	14.3	0.0	1.9	0.1	41.7	0.5	1.95	767.0	0.061	0.061	7.3	0.480	0.35	0.00	0.00	0.00	0.49	1.51
302	V1	7	2.30	90.812	32.1	0.0	5.1	14.2	0.0	1.9	0.1	40.1	0.5	1.95	767.0	0.061	0.061	7.3	0.480	0.35	0.00	0.00	0.00	0.48	1.50
303	V1	7	2.20	90.812	32.1	0.0	5.1	14.2	0.0	1.9	0.1	38.4	0.5	1.95	767.0	0.061	0.061	7.3	0.479	0.35	0.00	0.00	0.00	0.48	1.50
304	V1	7	2.10	90.812	32.0	0.0	5.1	14.1	0.0	1.9	0.1	36.8	0.5	1.95	767.0	0.061	0.061	7.3	0.479	0.35	0.00	0.00	0.00	0.48	1.49
305	V1	7	2.00	90.812	32.0	0.0	5.0	14.1	0.0	1.9	0.1	35.1	0.5	1.95	767.0	0.061	0.061	7.3	0.479	0.35	0.00	0.00	0.00	0.48	1.49
306	V1	7	1.90	90.812	31.9	0.0	5.0	14.0	0.0	1.9	0.1	33.4	0.5	1.95	767.0	0.061	0.061	7.3	0.478	0.35	0.00	0.00	0.00	0.47	1.48
307	V1	7	1.80	90.812	31.9	0.0	5.0	14.0	0.0	1.9	0.1	31.8	0.5	1.95	767.0	0.061	0.061	7.3	0.478	0.34	0.00	0.00	0.00	0.47	1.48
308	V1	7	1.70	90.812	31.8	0.0	4.9	13.9	0.0	1.9	0.1	30.1	0.5	1.95	767.0	0.061	0.061	7.3	0.477	0.34	0.00	0.00	0.00	0.47	1.47
309	V1	7	1.60	90.812	31.7	0.0	4.9	13.9	0.0	1.9	0.1	28.5	0.5	1.95	767.0	0.061	0.061	7.3	0.477	0.34	0.00	0.00	0.00	0.46	1.47
310	V1	7	1.50	90.812	31.7	0.0	4.8	13.8	0.0	1.9	0.1	26.8	0.5	1.95	767.0	0.061	0.061	7.3	0.476	0.34	0.00	0.00	0.00	0.46	1.46
311	V1	7	1.40	90.812	31.6	0.0	4.8	13.8	0.0	1.9	0.1	25.2	0.5	1.95	767.0	0.061	0.061	7.4	0.476	0.34	0.00	0.00	0.00	0.46	1.46
312	V1	7	1.30	90.812	31.6	0.0	4.8	13.8	0.0	1.9	0.1	23.5	0.5	1.95	767.0	0.061	0.061	7.4	0.475	0.34	0.00	0.00	0.00	0.45	1.45
313	V1	7	1.20	90.812	31.5	0.0	4.7	13.7	0.0	1.9	0.1	21.9	0.5	1.95	767.0	0.061	0.061	7.4	0.475	0.34	0.00	0.00	0.00	0.45	1.44
314	V1	7	1.10	90.812	31.4	0.0	4.7	13.7	0.0	1.9	0.1	20.2	0.5	1.95	767.0	0.061	0.061	7.4	0.474	0.34	0.00	0.00	0.00	0.45	1.44
315	V1	7	1.00	90.812	31.4	0.0	4.6	13.6	0.0	1.9	0.1	18.6	0.5	1.95	767.0	0.061	0.061	7.4	0.474	0.34	0.00	0.00	0.00	0.44	1.43
316	V1	7	0.90	90.812	31.3	0.0	4.6	13.6	0.0	1.9	0.1	16.9	0.5	1.95	767.0	0.061	0.061	7.4	0.473	0.34	0.00	0.00	0.00	0.44	1.43
317	V1	7	0.80	90.812	31.3	0.0	4.5	13.5	0.0	1.9	0.1	15.2	0.5	1.95	767.0	0.061	0.061	7.4	0.473	0.34	0.00	0.00	0.00	0.44	1.42
318	V1	7	0.70	90.812	31.2	0.0	4.5	13.5	0.0	1.9	0.1	13.6	0.5	1.95	767.0	0.061	0.061	7.4	0.472	0.33	0.00	0.00	0.00	0.43	1.42
WASTELOAD # 319 (NPDES Group3) ENTERS HERE																									
319	V1	7	0.60	90.813	31.2	0.0	4.4	13.4	0.0	1.9	0.1	11.9	0.5	1.95	767.0	0.061	0.061	7.4	0.472	0.33	0.00	0.00	0.00	0.43	1.41
320	V1	7	0.50	90.813	31.1	0.0	4.3	13.4	0.0	1.9	0.1	10.3	0.5	1.95	767.0	0.061	0.061	7.4	0.471	0.33	0.00	0.00	0.00	0.43	1.41
321	V1	7	0.40	90.813	31.0	0.0	4.3	13.4	0.0	1.9	0.1	8.6	0.5	1.95	767.0	0.061	0.061	7.4	0.471	0.33	0.00	0.00	0.00	0.42	1.40
322	V1	7	0.30	90.813	31.0	0.0	4.2	13.3	0.0	1.9	0.1	7.0	0.5	1.95	767.0	0.061	0.061	7.4	0.470	0.33	0.00	0.00	0.00	0.42	1.40
323	V1	7	0.20	90.813	30.9	0.0	4.2	13.3	0.0	1.9	0.1	5.3	0.5	1.95	767.0	0.061	0.061	7.4	0.470	0.33	0.00	0.00	0.00	0.42	1.39
324	V1	7	0.10	90.813	30.9	0.0	4.1	13.1	0.0	1.8	0.1	3.7	0.5	1.95	767.0	0.061	0.061	7.4	0.470	0.33	0.00	0.00	0.00	0.41	1.39
325	V1	7	0.00	90.813	30.8	0.0	4.1	11.7	0.0	1.6	0.1	2.0	0.5	1.95	767.0	0.061	0.061	7.5	0.469	0.33	0.00	0.00	0.00	0.41	1.38

EXPANDED CAPSULE SUMMARY FOR Fourmile Bayou Oxbow

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-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
56	OB	3	4.10	8.800	33.9	0.0	6.7	25.5	0.0	1.7	0.1	93.5	0.3	2.50	87.0	0.040	0.040	7.1	0.360	0.40	0.00	0.00	0.00	0.59	7.19
57	OB	3	4.00	8.800	33.9	0.0	6.5	25.5	0.0	1.7	0.1	91.9	0.3	2.50	87.0	0.040	0.040	7.1	0.359	0.40	0.00	0.00	0.00	0.58	7.18
58	OB	3	3.90	8.800	33.8	0.0	6.4	25.6	0.0	1.8	0.1	90.4	0.3	2.50	87.0	0.040	0.040	7.1	0.359	0.40	0.00	0.00	0.00	0.58	7.17
59	OB	3	3.80	8.800	33.8	0.0	6.3	25.6	0.0	1.8	0.1	88.8	0.3	2.50	87.0	0.040	0.040	7.1	0.359	0.40	0.00	0.00	0.00	0.58	7.16
60	OB	3	3.70	8.800	33.8	0.0	6.1	25.6	0.0	1.8	0.1	87.3	0.3	2.50	87.0	0.040	0.040	7.1	0.359	0.40	0.00	0.00	0.00	0.57	7.15
61	OB	3	3.60	8.800	33.8	0.0	6.0	25.6	0.0	1.8	0.1	85.7	0.3	2.50	87.0	0.040	0.040	7.1	0.359	0.40	0.00	0.00	0.00	0.57	7.13
62	OB	3	3.50	8.800	33.7	0.0	5.9	25.7	0.0	1.9	0.1	84.2	0.3	2.50	87.0	0.040	0.040	7.1	0.359	0.39	0.00	0.00	0.00	0.57	7.12
63	OB	3	3.40	8.800	33.7	0.0	5.7	25.7	0.0	1.9	0.1	82.6	0.3	2.50	87.0	0.040	0.040	7.1	0.359	0.39	0.00	0.00	0.00	0.56	7.11
64	OB	3	3.30	8.800	33.7	0.0	5.6	25.7	0.0	1.9	0.1	81.1	0.3	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.56	7.10
65	OB	3	3.20	8.800	33.7	0.0	5.4	25.7	0.0	1.9	0.1	79.5	0.3	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.55	7.09
66	OB	3	3.10	8.800	33.6	0.0	5.3	25.8	0.0	2.0	0.1	78.0	0.3	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.55	7.08
67	OB	3	3.00	8.800	33.6	0.0	5.1	25.8	0.0	2.0	0.1	76.4	0.3	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.55	7.07
68	OB	3	2.90	8.800	33.6	0.0	5.0	25.8	0.0	2.0	0.1	74.9	0.3	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.54	7.06
69	OB	3	2.80	8.800	33.6	0.0	4.8	25.8	0.0	2.0	0.1	73.3	0.3	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.53	7.05
70	OB	3	2.70	8.800	33.5	0.0	4.7	25.9	0.0	2.1	0.1	71.8	0.3	2.50	87.0	0.040	0.040	7.1	0.358	0.39	0.00	0.00	0.00	0.53	7.04
71	OB	3	2.60	8.800	33.5	0.0	4.5	25.9	0.0	2.1	0.1	70.2	0.3	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.52	7.03
72	OB	3	2.50	8.800	33.5	0.0	4.3	25.9	0.0	2.1	0.1	68.7	0.3	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.52	7.02
73	OB	3	2.40	8.800	33.5	0.0	4.2	25.9	0.0	2.1	0.1	67.1	0.3	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.51	7.01

74	OB	3	2.30	8.800	33.4	0.0	4.0	26.0	0.0	2.2	0.1	65.6	0.3	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.50	7.00
75	OB	3	2.20	8.800	33.4	0.0	3.8	26.0	0.0	2.2	0.1	64.0	0.3	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.50	6.99
76	OB	3	2.10	8.800	33.4	0.0	3.7	26.0	0.0	2.2	0.1	62.5	0.3	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.49	6.98
77	OB	3	2.00	8.800	33.4	0.0	3.5	26.0	0.0	2.2	0.1	61.0	0.3	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.48	6.97
78	OB	3	1.90	8.800	33.4	0.0	3.3	26.0	0.0	2.2	0.1	59.4	0.3	2.50	87.0	0.040	0.040	7.1	0.357	0.39	0.00	0.00	0.00	0.47	6.96
79	OB	3	1.80	8.800	33.3	0.0	3.1	26.1	0.0	2.3	0.1	57.9	0.3	2.50	87.0	0.040	0.040	7.1	0.356	0.39	0.00	0.00	0.00	0.46	6.94
80	OB	3	1.70	8.800	33.3	0.0	2.9	26.1	0.0	2.3	0.1	56.3	0.3	2.50	87.0	0.040	0.040	7.1	0.356	0.39	0.00	0.00	0.00	0.45	6.93
81	OB	3	1.60	8.800	33.3	0.0	2.8	26.1	0.0	2.3	0.1	54.8	0.3	2.50	87.0	0.040	0.040	7.1	0.356	0.39	0.00	0.00	0.00	0.44	6.92
82	OB	3	1.50	8.800	33.3	0.0	2.6	26.1	0.0	2.3	0.1	53.2	0.3	2.50	87.0	0.040	0.040	7.2	0.356	0.39	0.00	0.00	0.00	0.43	6.91
83	OB	3	1.40	8.800	33.2	0.0	2.4	26.2	0.0	2.4	0.1	51.7	0.3	2.50	87.0	0.040	0.040	7.2	0.356	0.39	0.00	0.00	0.00	0.42	6.90
84	OB	3	1.30	8.800	33.2	0.0	2.2	26.2	0.0	2.4	0.1	50.1	0.3	2.50	87.0	0.040	0.040	7.2	0.356	0.39	0.00	0.00	0.00	0.40	6.89
85	OB	3	1.20	8.800	33.2	0.0	2.0	26.2	0.0	2.4	0.1	48.6	0.3	2.50	87.0	0.040	0.040	7.2	0.356	0.38	0.00	0.00	0.00	0.39	6.86
86	OB	3	1.10	8.800	33.2	0.0	1.8	26.3	0.0	2.4	0.1	47.0	0.3	2.50	87.0	0.040	0.040	7.2	0.355	0.35	0.00	0.00	0.00	0.29	6.30
87	OB	3	1.00	8.800	33.1	0.0	1.7	26.3	0.0	2.5	0.1	45.5	0.3	2.50	87.0	0.040	0.040	7.2	0.355	0.33	0.00	0.00	0.00	0.21	5.81
88	OB	3	0.90	8.800	33.1	0.0	1.6	26.4	0.0	2.5	0.1	43.9	0.3	2.50	87.0	0.040	0.040	7.2	0.355	0.30	0.00	0.00	0.00	0.16	5.40
89	OB	3	0.80	8.800	33.1	0.0	1.5	26.5	0.0	2.5	0.1	42.4	0.3	2.50	87.0	0.040	0.040	7.2	0.355	0.28	0.00	0.00	0.00	0.12	5.03
90	OB	3	0.70	8.800	33.1	0.0	1.4	26.6	0.0	2.5	0.1	40.8	0.3	2.50	87.0	0.040	0.040	7.2	0.355	0.26	0.00	0.00	0.00	0.10	4.72
91	OB	3	0.60	8.800	33.0	0.0	1.3	26.8	0.0	2.5	0.1	39.3	0.3	2.50	87.0	0.040	0.040	7.2	0.355	0.25	0.00	0.00	0.00	0.08	4.44
92	OB	3	0.50	8.800	33.0	0.0	1.2	26.9	0.0	2.6	0.1	37.7	0.3	2.50	87.0	0.040	0.040	7.2	0.355	0.23	0.00	0.00	0.00	0.06	4.19
93	OB	3	0.40	8.800	33.0	0.0	1.2	27.0	0.0	2.6	0.1	36.2	0.3	2.50	87.0	0.040	0.040	7.2	0.354	0.22	0.00	0.00	0.00	0.05	3.97
94	OB	3	0.30	8.800	33.0	0.0	1.1	27.2	0.0	2.6	0.1	34.6	0.3	2.50	87.0	0.040	0.040	7.2	0.354	0.21	0.00	0.00	0.00	0.04	3.77
95	OB	3	0.20	8.800	32.9	0.0	1.1	27.3	0.0	2.6	0.1	33.1	0.3	2.50	87.0	0.040	0.040	7.2	0.354	0.20	0.00	0.00	0.00	0.04	3.60
96	OB	3	0.10	8.800	32.9	0.0	1.0	27.5	0.0	2.7	0.1	31.5	0.3	2.50	87.0	0.040	0.040	7.2	0.354	0.20	0.00	0.00	0.00	0.03	3.49
97	OB	3	0.00	8.800	32.9	0.0	1.3	27.3	0.0	2.6	0.1	30.0	0.3	2.50	87.0	0.040	0.040	7.2	0.354	0.25	0.00	0.00	0.00	0.08	4.36

SPECIAL REPORT: Grassy Lake

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 #/100mL	CHL A *	MACRO	COLI	NCM
1	28.200	33.12	0.0	0.0	0.0	6.70	23.51	0.00	23.51	0.00	1.60	0.10	0.03	1.73	0.00	99.9	0.0	0.	0.00		
2	28.100	33.15	0.0	0.0	0.0	6.70	23.51	0.00	23.51	0.00	1.61	0.10	0.02	1.73	0.00	99.7	0.0	0.	0.00		
3	28.000	33.17	0.0	0.0	0.0	6.70	23.52	0.00	23.52	0.00	1.61	0.10	0.01	1.72	0.00	99.6	0.0	0.	0.00		
4	27.900	33.19	0.0	0.0	0.0	6.70	23.53	0.00	23.53	0.00	1.62	0.10	0.00	1.72	0.00	99.4	0.0	0.	0.00		
5	27.800	33.21	0.0	0.0	0.0	6.70	23.53	0.00	23.53	0.00	1.62	0.10	0.00	1.72	0.00	99.3	0.0	0.	0.00		
6	27.700	33.24	0.0	0.0	0.0	6.69	23.54	0.00	23.54	0.00	1.63	0.10	0.00	1.72	0.00	99.1	0.0	0.	0.00		
7	27.600	33.26	0.0	0.0	0.0	6.69	23.54	0.00	23.54	0.00	1.63	0.10	0.00	1.73	0.00	99.0	0.0	0.	0.00		
8	27.500	33.28	0.0	0.0	0.0	6.69	23.55	0.00	23.55	0.00	1.64	0.10	0.00	1.73	0.00	98.9	0.0	0.	0.00		
9	27.400	33.31	0.0	0.0	0.0	6.69	23.55	0.00	23.55	0.00	1.64	0.10	0.00	1.74	0.00	98.7	0.0	0.	0.00		
10	27.300	33.33	0.0	0.0	0.0	6.68	23.56	0.00	23.56	0.00	1.64	0.10	0.00	1.74	0.00	98.6	0.0	0.	0.00		
11	27.200	33.35	0.0	0.0	0.0	6.68	23.56	0.00	23.56	0.00	1.65	0.10	0.00	1.74	0.00	98.4	0.0	0.	0.00		
12	27.100	33.37	0.0	0.0	0.0	6.67	23.57	0.00	23.57	0.00	1.65	0.10	0.00	1.75	0.00	98.3	0.0	0.	0.00		
13	27.000	33.40	0.0	0.0	0.0	6.67	23.57	0.00	23.57	0.00	1.66	0.10	0.00	1.75	0.00	98.1	0.0	0.	0.00		
14	26.900	33.42	0.0	0.0	0.0	6.66	23.58	0.00	23.58	0.00	1.66	0.10	0.00	1.76	0.00	98.0	0.0	0.	0.00		
15	26.800	33.44	0.0	0.0	0.0	6.66	23.58	0.00	23.58	0.00	1.67	0.10	0.00	1.76	0.00	97.9	0.0	0.	0.00		
16	26.700	33.47	0.0	0.0	0.0	6.65	23.58	0.00	23.58	0.00	1.67	0.10	0.00	1.77	0.00	97.7	0.0	0.	0.00		
17	26.600	33.49	0.0	0.0	0.0	6.65	23.59	0.00	23.59	0.00	1.67	0.09	0.00	1.77	0.00	97.6	0.0	0.	0.00		
18	26.500	33.51	0.0	0.0	0.0	6.64	23.59	0.00	23.59	0.00	1.68	0.09	0.00	1.77	0.00	97.4	0.0	0.	0.00		
19	26.400	33.53	0.0	0.0	0.0	6.64	23.59	0.00	23.59	0.00	1.68	0.09	0.00	1.78	0.00	97.3	0.0	0.	0.00		
20	26.300	33.56	0.0	0.0	0.0	6.63	23.59	0.00	23.59	0.00	1.69	0.09	0.00	1.78	0.00	97.1	0.0	0.	0.00		
21	26.200	33.58	0.0	0.0	0.0	6.62	23.59	0.00	23.59	0.00	1.69	0.09	0.00	1.79	0.00	97.0	0.0	0.	0.00		
22	26.100	33.60	0.0	0.0	0.0	6.61	23.60	0.00	23.60	0.00	1.70	0.09	0.00	1.79	0.00	96.9	0.0	0.	0.00		

23	26.000	33.63	0.0	0.0	0.0	6.61	23.60	0.00	23.60	0.00	1.70	0.09	0.00	1.79	0.00	96.7	0.0	0.	0.00
24	25.900	33.65	0.0	0.0	0.0	6.60	23.60	0.00	23.60	0.00	1.70	0.09	0.00	1.80	0.00	96.6	0.0	0.	0.00
25	25.800	33.67	0.0	0.0	0.0	6.59	23.60	0.00	23.60	0.00	1.71	0.09	0.00	1.80	0.00	96.4	0.0	0.	0.00
26	25.700	33.69	0.0	0.0	0.0	6.58	23.60	0.00	23.60	0.00	1.71	0.09	0.00	1.81	0.00	96.3	0.0	0.	0.00
27	25.600	33.72	0.0	0.0	0.0	6.57	23.60	0.00	23.60	0.00	1.72	0.09	0.00	1.81	0.00	96.1	0.0	0.	0.00
28	25.500	33.74	0.0	0.0	0.0	6.56	23.60	0.00	23.60	0.00	1.72	0.09	0.00	1.82	0.00	96.0	0.0	0.	0.00
29	25.400	33.76	0.0	0.0	0.0	6.55	23.60	0.00	23.60	0.00	1.73	0.09	0.00	1.82	0.00	95.9	0.0	0.	0.00
30	25.300	33.79	0.0	0.0	0.0	6.54	23.60	0.00	23.60	0.00	1.73	0.09	0.00	1.82	0.00	95.7	0.0	0.	0.00
31	25.200	33.81	0.0	0.0	0.0	6.53	23.60	0.00	23.60	0.00	1.74	0.09	0.00	1.83	0.00	95.6	0.0	0.	0.00
32	25.100	33.83	0.0	0.0	0.0	6.52	23.60	0.00	23.60	0.00	1.74	0.09	0.00	1.83	0.00	95.4	0.0	0.	0.00
33	25.000	33.85	0.0	0.0	0.0	6.51	23.60	0.00	23.60	0.00	1.75	0.09	0.00	1.84	0.00	95.3	0.0	0.	0.00
34	24.900	33.88	0.0	0.0	0.0	6.50	23.60	0.00	23.60	0.00	1.75	0.09	0.00	1.84	0.00	95.1	0.0	0.	0.00
35	24.800	33.90	0.0	0.0	0.0	6.49	23.60	0.00	23.60	0.00	1.76	0.09	0.00	1.85	0.00	95.0	0.0	0.	0.00
36	24.700	33.85	0.0	0.0	0.0	6.46	23.62	0.00	23.62	0.00	1.77	0.09	0.00	1.86	0.00	91.8	0.0	0.	0.00
37	24.600	33.80	0.0	0.0	0.0	6.43	23.63	0.00	23.63	0.00	1.77	0.09	0.00	1.86	0.00	88.5	0.0	0.	0.00
38	24.500	33.75	0.0	0.0	0.0	6.39	23.65	0.00	23.65	0.00	1.78	0.09	0.00	1.87	0.00	85.2	0.0	0.	0.00
39	24.400	33.70	0.0	0.0	0.0	6.35	23.67	0.00	23.67	0.00	1.79	0.09	0.00	1.88	0.00	82.0	0.0	0.	0.00
40	24.300	33.65	0.0	0.0	0.0	6.31	23.69	0.00	23.69	0.00	1.80	0.09	0.00	1.89	0.00	78.8	0.0	0.	0.00
41	24.200	33.60	0.0	0.0	0.0	6.27	23.70	0.00	23.70	0.00	1.81	0.09	0.00	1.90	0.00	75.5	0.0	0.	0.00
42	24.100	33.55	0.0	0.0	0.0	6.22	23.72	0.00	23.72	0.00	1.82	0.09	0.00	1.91	0.00	72.2	0.0	0.	0.00
43	24.000	33.50	0.0	0.0	0.0	6.16	23.74	0.00	23.74	0.00	1.82	0.09	0.00	1.91	0.00	69.0	0.0	0.	0.00
44	23.900	33.45	0.0	0.0	0.0	6.11	23.76	0.00	23.76	0.00	1.83	0.09	0.00	1.92	0.00	65.8	0.0	0.	0.00
45	23.800	33.40	0.0	0.0	0.0	6.05	23.78	0.00	23.78	0.00	1.84	0.09	0.00	1.93	0.00	62.5	0.0	0.	0.00
46	23.700	33.35	0.0	0.0	0.0	5.98	23.79	0.00	23.79	0.00	1.85	0.09	0.00	1.94	0.00	59.2	0.0	0.	0.00
47	23.600	33.30	0.0	0.0	0.0	5.91	23.81	0.00	23.81	0.00	1.86	0.09	0.00	1.95	0.00	56.0	0.0	0.	0.00
48	23.500	33.25	0.0	0.0	0.0	5.84	23.83	0.00	23.83	0.00	1.87	0.09	0.00	1.96	0.00	52.8	0.0	0.	0.00
49	23.400	33.20	0.0	0.0	0.0	5.77	23.85	0.00	23.85	0.00	1.87	0.09	0.00	1.96	0.00	49.5	0.0	0.	0.00
50	23.300	33.15	0.0	0.0	0.0	5.69	23.87	0.00	23.87	0.00	1.88	0.09	0.00	1.97	0.00	46.2	0.0	0.	0.00
51	23.200	33.10	0.0	0.0	0.0	5.61	23.89	0.00	23.89	0.00	1.89	0.09	0.00	1.98	0.00	43.0	0.0	0.	0.00
52	23.100	33.05	0.0	0.0	0.0	5.53	23.91	0.00	23.91	0.00	1.90	0.09	0.00	1.99	0.00	39.8	0.0	0.	0.00
53	23.000	33.00	0.0	0.0	0.0	5.44	23.93	0.00	23.93	0.00	1.91	0.09	0.00	2.00	0.00	36.5	0.0	0.	0.00
54	22.900	32.95	0.0	0.0	0.0	5.35	23.95	0.00	23.95	0.00	1.92	0.09	0.00	2.01	0.00	33.2	0.0	0.	0.00
55	22.800	32.90	0.0	0.0	0.0	5.24	23.98	0.00	23.98	0.00	1.93	0.09	0.00	2.02	0.00	30.0	0.0	0.	0.00
98	22.700	32.90	0.0	0.0	0.0	4.57	24.50	0.00	24.50	0.00	2.04	0.09	0.00	2.14	0.00	32.1	0.0	0.	0.00
99	22.600	32.89	0.0	0.0	0.0	4.52	24.51	0.00	24.51	0.00	2.05	0.09	0.00	2.14	0.00	34.1	0.0	0.	0.00
100	22.500	32.89	0.0	0.0	0.0	4.46	24.51	0.00	24.51	0.00	2.06	0.09	0.00	2.15	0.00	36.2	0.0	0.	0.00
101	22.400	32.89	0.0	0.0	0.0	4.41	24.52	0.00	24.52	0.00	2.07	0.09	0.00	2.16	0.00	38.2	0.0	0.	0.00
102	22.300	32.89	0.0	0.0	0.0	4.36	24.52	0.00	24.52	0.00	2.07	0.09	0.00	2.17	0.00	40.3	0.0	0.	0.00
103	22.200	32.88	0.0	0.0	0.0	4.31	24.53	0.00	24.53	0.00	2.08	0.09	0.00	2.18	0.00	42.4	0.0	0.	0.00
104	22.100	32.88	0.0	0.0	0.0	4.27	24.53	0.00	24.53	0.00	2.09	0.10	0.00	2.19	0.00	44.4	0.0	0.	0.00
105	22.000	32.88	0.0	0.0	0.0	4.22	24.54	0.00	24.54	0.00	2.10	0.10	0.00	2.19	0.00	46.5	0.0	0.	0.00
106	21.900	32.87	0.0	0.0	0.0	4.18	24.54	0.00	24.54	0.00	2.11	0.10	0.00	2.20	0.00	48.5	0.0	0.	0.00
107	21.800	32.87	0.0	0.0	0.0	4.14	24.55	0.00	24.55	0.00	2.11	0.10	0.00	2.21	0.00	50.6	0.0	0.	0.00
108	21.700	32.87	0.0	0.0	0.0	4.10	24.55	0.00	24.55	0.00	2.12	0.10	0.00	2.22	0.00	52.6	0.0	0.	0.00
109	21.600	32.86	0.0	0.0	0.0	4.06	24.56	0.00	24.56	0.00	2.13	0.10	0.00	2.23	0.00	54.7	0.0	0.	0.00
110	21.500	32.86	0.0	0.0	0.0	4.02	24.56	0.00	24.56	0.00	2.14	0.10	0.00	2.23	0.00	56.8	0.0	0.	0.00
111	21.400	32.86	0.0	0.0	0.0	3.98	24.57	0.00	24.57	0.00	2.15	0.10	0.00	2.24	0.00	58.8	0.0	0.	0.00
112	21.300	32.86	0.0	0.0	0.0	3.95	24.57	0.00	24.57	0.00	2.15	0.10	0.00	2.25	0.00	60.9	0.0	0.	0.00
113	21.200	32.85	0.0	0.0	0.0	3.91	24.58	0.00	24.58	0.00	2.16	0.10	0.00	2.26	0.00	62.9	0.0	0.	0.00
114	21.100	32.85	0.0	0.0	0.0	3.88	24.58	0.00	24.58	0.00	2.17	0.10	0.00	2.27	0.00	65.0	0.0	0.	0.00

115	21.000	32.85	0.0	0.0	0.0	3.85	24.59	0.00	24.59	0.00	2.18	0.10	0.00	2.27	0.00	67.1	0.0	0.	0.00
116	20.900	32.84	0.0	0.0	0.0	3.82	24.59	0.00	24.59	0.00	2.19	0.10	0.00	2.28	0.00	69.1	0.0	0.	0.00
117	20.800	32.84	0.0	0.0	0.0	3.79	24.60	0.00	24.60	0.00	2.19	0.10	0.00	2.29	0.00	71.2	0.0	0.	0.00
118	20.700	32.84	0.0	0.0	0.0	3.76	24.60	0.00	24.60	0.00	2.20	0.10	0.00	2.30	0.00	73.2	0.0	0.	0.00
119	20.600	32.84	0.0	0.0	0.0	3.74	24.61	0.00	24.61	0.00	2.21	0.10	0.00	2.31	0.00	75.3	0.0	0.	0.00
120	20.500	32.83	0.0	0.0	0.0	3.71	24.61	0.00	24.61	0.00	2.22	0.10	0.00	2.31	0.00	77.4	0.0	0.	0.00
121	20.400	32.83	0.0	0.0	0.0	3.69	24.62	0.00	24.62	0.00	2.23	0.10	0.00	2.32	0.00	79.4	0.0	0.	0.00
122	20.300	32.83	0.0	0.0	0.0	3.67	24.62	0.00	24.62	0.00	2.23	0.10	0.00	2.33	0.00	81.5	0.0	0.	0.00
123	20.200	32.82	0.0	0.0	0.0	3.65	24.63	0.00	24.63	0.00	2.24	0.10	0.00	2.34	0.00	83.5	0.0	0.	0.00
124	20.100	32.82	0.0	0.0	0.0	3.63	24.63	0.00	24.63	0.00	2.25	0.10	0.00	2.35	0.00	85.6	0.0	0.	0.00
125	20.000	32.82	0.0	0.0	0.0	3.61	24.64	0.00	24.64	0.00	2.26	0.10	0.00	2.35	0.00	87.6	0.0	0.	0.00
126	19.900	32.81	0.0	0.0	0.0	3.60	24.64	0.00	24.64	0.00	2.27	0.10	0.00	2.36	0.00	89.7	0.0	0.	0.00
127	19.800	32.81	0.0	0.0	0.0	3.58	24.65	0.00	24.65	0.00	2.27	0.10	0.00	2.37	0.00	91.8	0.0	0.	0.00
128	19.700	32.81	0.0	0.0	0.0	3.57	24.65	0.00	24.65	0.00	2.28	0.10	0.00	2.38	0.00	93.8	0.0	0.	0.00
129	19.600	32.81	0.0	0.0	0.0	3.56	24.66	0.00	24.66	0.00	2.29	0.10	0.00	2.39	0.00	95.9	0.0	0.	0.00
130	19.500	32.80	0.0	0.0	0.0	3.55	24.66	0.00	24.66	0.00	2.30	0.10	0.00	2.40	0.00	97.9	0.0	0.	0.00
131	19.400	32.80	0.0	0.0	0.0	3.65	24.49	0.00	24.49	0.00	2.31	0.10	0.00	2.41	0.00	100.0	0.0	0.	0.00
132	19.300	32.80	0.0	0.0	0.0	4.94	22.46	0.00	22.46	0.00	2.34	0.10	0.00	2.44	0.00	100.1	0.0	0.	0.00
133	19.200	32.79	0.0	0.0	0.0	4.98	22.82	0.00	22.82	0.00	2.35	0.10	0.00	2.45	0.00	100.2	0.0	0.	0.00
134	19.100	32.79	0.0	0.0	0.0	5.01	23.18	0.00	23.18	0.00	2.36	0.10	0.00	2.45	0.00	100.3	0.0	0.	0.00
135	19.000	32.78	0.0	0.0	0.0	5.05	23.53	0.00	23.53	0.00	2.36	0.10	0.00	2.46	0.00	100.4	0.0	0.	0.00
136	18.900	32.78	0.0	0.0	0.0	5.08	23.88	0.00	23.88	0.00	2.37	0.10	0.00	2.47	0.00	100.5	0.0	0.	0.00
137	18.800	32.78	0.0	0.0	0.0	5.11	24.23	0.00	24.23	0.00	2.37	0.10	0.00	2.47	0.00	100.6	0.0	0.	0.00
138	18.700	32.77	0.0	0.0	0.0	5.13	24.57	0.00	24.57	0.00	2.38	0.10	0.00	2.48	0.00	100.7	0.0	0.	0.00
139	18.600	32.77	0.0	0.0	0.0	5.15	24.91	0.00	24.91	0.00	2.38	0.10	0.00	2.49	0.00	100.8	0.0	0.	0.00
140	18.500	32.76	0.0	0.0	0.0	5.16	25.25	0.00	25.25	0.00	2.39	0.10	0.00	2.49	0.00	100.9	0.0	0.	0.00
141	18.400	32.76	0.0	0.0	0.0	5.18	25.58	0.00	25.58	0.00	2.40	0.10	0.00	2.50	0.00	101.0	0.0	0.	0.00
142	18.300	32.76	0.0	0.0	0.0	5.19	25.92	0.00	25.92	0.00	2.40	0.10	0.00	2.50	0.00	101.1	0.0	0.	0.00
143	18.200	32.75	0.0	0.0	0.0	5.20	26.24	0.00	26.24	0.00	2.41	0.10	0.00	2.51	0.00	101.2	0.0	0.	0.00
144	18.100	32.75	0.0	0.0	0.0	5.20	26.57	0.00	26.57	0.00	2.41	0.10	0.00	2.52	0.00	101.3	0.0	0.	0.00
145	18.000	32.74	0.0	0.0	0.0	5.20	26.89	0.00	26.89	0.00	2.42	0.10	0.00	2.52	0.00	101.4	0.0	0.	0.00
146	17.900	32.74	0.0	0.0	0.0	5.20	27.21	0.00	27.21	0.00	2.43	0.10	0.00	2.53	0.00	101.5	0.0	0.	0.00
147	17.800	32.73	0.0	0.0	0.0	5.20	27.53	0.00	27.53	0.00	2.43	0.10	0.00	2.53	0.00	101.6	0.0	0.	0.00
148	17.700	32.73	0.0	0.0	0.0	5.19	27.84	0.00	27.84	0.00	2.44	0.10	0.00	2.54	0.00	101.7	0.0	0.	0.00
149	17.600	32.73	0.0	0.0	0.0	5.19	28.15	0.00	28.15	0.00	2.44	0.10	0.00	2.55	0.00	101.8	0.0	0.	0.00
150	17.500	32.72	0.0	0.0	0.0	5.18	28.46	0.00	28.46	0.00	2.45	0.10	0.00	2.55	0.00	101.9	0.0	0.	0.00
151	17.400	32.72	0.0	0.0	0.0	5.16	28.77	0.00	28.77	0.00	2.45	0.10	0.00	2.56	0.00	102.0	0.0	0.	0.00
152	17.300	32.71	0.0	0.0	0.0	5.15	29.07	0.00	29.07	0.00	2.46	0.11	0.00	2.56	0.00	102.1	0.0	0.	0.00
153	17.200	32.71	0.0	0.0	0.0	5.13	29.37	0.00	29.37	0.00	2.47	0.11	0.00	2.57	0.00	102.2	0.0	0.	0.00
154	17.100	32.71	0.0	0.0	0.0	5.11	29.67	0.00	29.67	0.00	2.47	0.11	0.00	2.58	0.00	102.3	0.0	0.	0.00
155	17.000	32.70	0.0	0.0	0.0	5.09	29.96	0.00	29.96	0.00	2.48	0.11	0.00	2.58	0.00	102.4	0.0	0.	0.00
156	16.900	32.70	0.0	0.0	0.0	5.07	30.25	0.00	30.25	0.00	2.48	0.11	0.00	2.59	0.00	102.6	0.0	0.	0.00
157	16.800	32.69	0.0	0.0	0.0	5.05	30.54	0.00	30.54	0.00	2.49	0.11	0.00	2.60	0.00	102.7	0.0	0.	0.00
158	16.700	32.69	0.0	0.0	0.0	5.02	30.83	0.00	30.83	0.00	2.49	0.11	0.00	2.60	0.00	102.8	0.0	0.	0.00
159	16.600	32.69	0.0	0.0	0.0	4.99	31.11	0.00	31.11	0.00	2.50	0.11	0.00	2.61	0.00	102.9	0.0	0.	0.00
160	16.500	32.68	0.0	0.0	0.0	4.96	31.39	0.00	31.39	0.00	2.51	0.11	0.00	2.61	0.00	103.0	0.0	0.	0.00
161	16.400	32.68	0.0	0.0	0.0	4.93	31.67	0.00	31.67	0.00	2.51	0.11	0.00	2.62	0.00	103.1	0.0	0.	0.00
162	16.300	32.67	0.0	0.0	0.0	4.90	31.95	0.00	31.95	0.00	2.52	0.11	0.00	2.63	0.00	103.2	0.0	0.	0.00
163	16.200	32.67	0.0	0.0	0.0	4.86	32.22	0.00	32.22	0.00	2.52	0.11	0.00	2.63	0.00	103.3	0.0	0.	0.00
164	16.100	32.67	0.0	0.0	0.0	4.83	32.49	0.00	32.49	0.00	2.53	0.11	0.00	2.64	0.00	103.4	0.0	0.	0.00

165	16.000	32.66	0.0	0.0	0.0	4.79	32.76	0.00	32.76	0.00	2.53	0.11	0.00	2.64	0.00	103.5	0.0	0.	0.00
166	15.900	32.66	0.0	0.0	0.0	4.75	33.03	0.00	33.03	0.00	2.54	0.11	0.00	2.65	0.00	103.6	0.0	0.	0.00
167	15.800	32.65	0.0	0.0	0.0	4.72	33.29	0.00	33.29	0.00	2.55	0.11	0.00	2.66	0.00	103.7	0.0	0.	0.00
168	15.700	32.65	0.0	0.0	0.0	4.68	33.55	0.00	33.55	0.00	2.55	0.11	0.00	2.66	0.00	103.8	0.0	0.	0.00
169	15.600	32.64	0.0	0.0	0.0	4.63	33.81	0.00	33.81	0.00	2.56	0.11	0.00	2.67	0.00	103.9	0.0	0.	0.00
170	15.500	32.64	0.0	0.0	0.0	4.59	34.07	0.00	34.07	0.00	2.56	0.11	0.00	2.67	0.00	104.0	0.0	0.	0.00
171	15.400	32.64	0.0	0.0	0.0	4.55	34.33	0.00	34.33	0.00	2.57	0.11	0.00	2.68	0.00	104.1	0.0	0.	0.00
172	15.300	32.63	0.0	0.0	0.0	4.50	34.58	0.00	34.58	0.00	2.57	0.11	0.00	2.69	0.00	104.2	0.0	0.	0.00
173	15.200	32.63	0.0	0.0	0.0	4.46	34.83	0.00	34.83	0.00	2.58	0.11	0.00	2.69	0.00	104.3	0.0	0.	0.00
174	15.100	32.62	0.0	0.0	0.0	4.41	35.08	0.00	35.08	0.00	2.59	0.11	0.00	2.70	0.00	104.4	0.0	0.	0.00
175	15.000	32.62	0.0	0.0	0.0	4.36	35.32	0.00	35.32	0.00	2.59	0.11	0.00	2.70	0.00	104.5	0.0	0.	0.00
176	14.900	32.62	0.0	0.0	0.0	4.32	35.57	0.00	35.57	0.00	2.60	0.11	0.00	2.71	0.00	104.6	0.0	0.	0.00
177	14.800	32.61	0.0	0.0	0.0	4.27	35.81	0.00	35.81	0.00	2.60	0.11	0.00	2.72	0.00	104.7	0.0	0.	0.00
178	14.700	32.61	0.0	0.0	0.0	4.22	36.05	0.00	36.05	0.00	2.61	0.11	0.00	2.72	0.00	104.8	0.0	0.	0.00
179	14.600	32.60	0.0	0.0	0.0	4.16	36.26	0.00	36.26	0.00	2.61	0.11	0.00	2.73	0.00	104.9	0.0	0.	0.00
180	14.500	32.60	0.0	0.0	0.0	4.09	36.31	0.00	36.31	0.00	2.62	0.12	0.00	2.73	0.00	105.0	0.0	0.	0.00
181	14.400	32.60	0.0	0.0	0.0	3.96	35.56	0.00	35.56	0.00	2.61	0.12	0.00	2.73	0.00	104.5	0.0	0.	0.00
182	14.300	32.60	0.0	0.0	0.0	3.85	34.90	0.00	34.90	0.00	2.60	0.12	0.00	2.72	0.00	104.1	0.0	0.	0.00
183	14.200	32.60	0.0	0.0	0.0	3.77	34.26	0.00	34.26	0.00	2.59	0.12	0.00	2.71	0.00	103.6	0.0	0.	0.00
184	14.100	32.60	0.0	0.0	0.0	3.71	33.64	0.00	33.64	0.00	2.59	0.12	0.00	2.71	0.00	103.1	0.0	0.	0.00
185	14.000	32.60	0.0	0.0	0.0	3.66	33.04	0.00	33.04	0.00	2.58	0.12	0.00	2.70	0.00	102.6	0.0	0.	0.00
186	13.900	32.59	0.0	0.0	0.0	3.62	32.45	0.00	32.45	0.00	2.57	0.12	0.00	2.69	0.00	102.2	0.0	0.	0.00
187	13.800	32.59	0.0	0.0	0.0	3.60	31.89	0.00	31.89	0.00	2.56	0.12	0.00	2.69	0.00	101.7	0.0	0.	0.00
188	13.700	32.59	0.0	0.0	0.0	3.59	31.34	0.00	31.34	0.00	2.56	0.12	0.00	2.68	0.00	101.2	0.0	0.	0.00
189	13.600	32.59	0.0	0.0	0.0	3.60	30.81	0.00	30.81	0.00	2.55	0.13	0.00	2.68	0.00	100.7	0.0	0.	0.00
190	13.500	32.59	0.0	0.0	0.0	3.61	30.30	0.00	30.30	0.00	2.54	0.13	0.00	2.67	0.00	100.3	0.0	0.	0.00
191	13.400	32.59	0.0	0.0	0.0	3.63	29.80	0.00	29.80	0.00	2.54	0.13	0.00	2.66	0.00	99.8	0.0	0.	0.00
192	13.300	32.59	0.0	0.0	0.0	3.67	29.31	0.00	29.31	0.00	2.53	0.13	0.00	2.66	0.00	99.3	0.0	0.	0.00
193	13.200	32.59	0.0	0.0	0.0	3.71	28.85	0.00	28.85	0.00	2.52	0.13	0.00	2.65	0.00	98.8	0.0	0.	0.00
194	13.100	32.59	0.0	0.0	0.0	3.75	28.39	0.00	28.39	0.00	2.51	0.13	0.00	2.64	0.00	98.4	0.0	0.	0.00
195	13.000	32.59	0.0	0.0	0.0	3.81	27.95	0.00	27.95	0.00	2.51	0.13	0.00	2.64	0.00	97.9	0.0	0.	0.00
196	12.900	32.59	0.0	0.0	0.0	3.86	27.52	0.00	27.52	0.00	2.50	0.13	0.00	2.63	0.00	97.4	0.0	0.	0.00
197	12.800	32.59	0.0	0.0	0.0	3.93	27.11	0.00	27.11	0.00	2.49	0.13	0.00	2.62	0.00	96.9	0.0	0.	0.00
198	12.700	32.58	0.0	0.0	0.0	3.99	26.71	0.00	26.71	0.00	2.49	0.13	0.00	2.62	0.00	96.5	0.0	0.	0.00
199	12.600	32.58	0.0	0.0	0.0	4.06	26.32	0.00	26.32	0.00	2.48	0.13	0.00	2.61	0.00	96.0	0.0	0.	0.00
200	12.500	32.58	0.0	0.0	0.0	4.14	25.94	0.00	25.94	0.00	2.47	0.13	0.00	2.60	0.00	95.5	0.0	0.	0.00
201	12.400	32.58	0.0	0.0	0.0	4.22	25.57	0.00	25.57	0.00	2.47	0.13	0.00	2.60	0.00	95.0	0.0	0.	0.00
202	12.300	32.58	0.0	0.0	0.0	4.30	25.22	0.00	25.22	0.00	2.46	0.13	0.00	2.59	0.00	94.6	0.0	0.	0.00
203	12.200	32.58	0.0	0.0	0.0	4.38	24.87	0.00	24.87	0.00	2.45	0.13	0.00	2.58	0.00	94.1	0.0	0.	0.00
204	12.100	32.58	0.0	0.0	0.0	4.46	24.54	0.00	24.54	0.00	2.44	0.13	0.00	2.57	0.00	93.6	0.0	0.	0.00
205	12.000	32.58	0.0	0.0	0.0	4.55	24.21	0.00	24.21	0.00	2.44	0.13	0.00	2.57	0.00	93.1	0.0	0.	0.00
206	11.900	32.58	0.0	0.0	0.0	4.63	23.90	0.00	23.90	0.00	2.43	0.13	0.00	2.56	0.00	92.7	0.0	0.	0.00
207	11.800	32.58	0.0	0.0	0.0	4.72	23.60	0.00	23.60	0.00	2.42	0.13	0.00	2.55	0.00	92.2	0.0	0.	0.00
208	11.700	32.58	0.0	0.0	0.0	4.80	23.30	0.00	23.30	0.00	2.42	0.13	0.00	2.55	0.00	91.7	0.0	0.	0.00
209	11.600	32.58	0.0	0.0	0.0	4.89	23.02	0.00	23.02	0.00	2.41	0.13	0.00	2.54	0.00	91.2	0.0	0.	0.00
210	11.500	32.57	0.0	0.0	0.0	4.97	22.74	0.00	22.74	0.00	2.40	0.13	0.00	2.53	0.00	90.8	0.0	0.	0.00
211	11.400	32.57	0.0	0.0	0.0	5.06	22.47	0.00	22.47	0.00	2.40	0.13	0.00	2.53	0.00	90.3	0.0	0.	0.00
212	11.300	32.57	0.0	0.0	0.0	5.14	22.21	0.00	22.21	0.00	2.39	0.13	0.00	2.52	0.00	89.8	0.0	0.	0.00
213	11.200	32.57	0.0	0.0	0.0	5.23	21.96	0.00	21.96	0.00	2.38	0.13	0.00	2.51	0.00	89.4	0.0	0.	0.00
214	11.100	32.57	0.0	0.0	0.0	5.31	21.71	0.00	21.71	0.00	2.38	0.13	0.00	2.50	0.00	88.9	0.0	0.	0.00

215	11.000	32.57	0.0	0.0	0.0	5.39	21.47	0.00	21.47	0.00	2.37	0.13	0.00	2.50	0.00	88.4	0.0	0.	0.00
216	10.900	32.57	0.0	0.0	0.0	5.47	21.24	0.00	21.24	0.00	2.36	0.13	0.00	2.49	0.00	87.9	0.0	0.	0.00
217	10.800	32.57	0.0	0.0	0.0	5.55	21.02	0.00	21.02	0.00	2.36	0.13	0.00	2.48	0.00	87.5	0.0	0.	0.00
218	10.700	32.57	0.0	0.0	0.0	5.63	20.80	0.00	20.80	0.00	2.35	0.13	0.00	2.48	0.00	87.0	0.0	0.	0.00
219	10.600	32.57	0.0	0.0	0.0	5.70	20.59	0.00	20.59	0.00	2.34	0.13	0.00	2.47	0.00	86.5	0.0	0.	0.00
220	10.500	32.57	0.0	0.0	0.0	5.77	20.39	0.00	20.39	0.00	2.34	0.12	0.00	2.46	0.00	86.0	0.0	0.	0.00
221	10.400	32.56	0.0	0.0	0.0	5.84	20.19	0.00	20.19	0.00	2.33	0.12	0.00	2.45	0.00	85.6	0.0	0.	0.00
222	10.300	32.56	0.0	0.0	0.0	5.91	20.00	0.00	20.00	0.00	2.32	0.12	0.00	2.45	0.00	85.1	0.0	0.	0.00
223	10.200	32.56	0.0	0.0	0.0	5.98	19.82	0.00	19.82	0.00	2.32	0.12	0.00	2.44	0.00	84.6	0.0	0.	0.00
224	10.100	32.56	0.0	0.0	0.0	6.05	19.64	0.00	19.64	0.00	2.31	0.12	0.00	2.43	0.00	84.1	0.0	0.	0.00
225	10.000	32.56	0.0	0.0	0.0	6.11	19.46	0.00	19.46	0.00	2.30	0.12	0.00	2.43	0.00	83.7	0.0	0.	0.00
226	9.900	32.56	0.0	0.0	0.0	6.17	19.29	0.00	19.29	0.00	2.30	0.12	0.00	2.42	0.00	83.2	0.0	0.	0.00
227	9.800	32.56	0.0	0.0	0.0	6.23	19.13	0.00	19.13	0.00	2.29	0.12	0.00	2.41	0.00	82.7	0.0	0.	0.00
228	9.700	32.56	0.0	0.0	0.0	6.28	18.97	0.00	18.97	0.00	2.28	0.12	0.00	2.41	0.00	82.2	0.0	0.	0.00
229	9.600	32.56	0.0	0.0	0.0	6.34	18.82	0.00	18.82	0.00	2.28	0.12	0.00	2.40	0.00	81.8	0.0	0.	0.00
230	9.500	32.56	0.0	0.0	0.0	6.39	18.67	0.00	18.67	0.00	2.27	0.12	0.00	2.39	0.00	81.3	0.0	0.	0.00
231	9.400	32.56	0.0	0.0	0.0	6.44	18.52	0.00	18.52	0.00	2.27	0.12	0.00	2.38	0.00	80.8	0.0	0.	0.00
232	9.300	32.56	0.0	0.0	0.0	6.48	18.38	0.00	18.38	0.00	2.26	0.12	0.00	2.38	0.00	80.3	0.0	0.	0.00
233	9.200	32.55	0.0	0.0	0.0	6.53	18.24	0.00	18.24	0.00	2.25	0.12	0.00	2.37	0.00	79.9	0.0	0.	0.00
234	9.100	32.55	0.0	0.0	0.0	6.57	18.11	0.00	18.11	0.00	2.25	0.12	0.00	2.36	0.00	79.4	0.0	0.	0.00
235	9.000	32.55	0.0	0.0	0.0	6.61	17.98	0.00	17.98	0.00	2.24	0.12	0.00	2.36	0.00	78.9	0.0	0.	0.00
236	8.900	32.55	0.0	0.0	0.0	6.64	17.86	0.00	17.86	0.00	2.23	0.12	0.00	2.35	0.00	78.4	0.0	0.	0.00
237	8.800	32.55	0.0	0.0	0.0	6.68	17.74	0.00	17.74	0.00	2.23	0.12	0.00	2.34	0.00	78.0	0.0	0.	0.00
238	8.700	32.55	0.0	0.0	0.0	6.71	17.62	0.00	17.62	0.00	2.22	0.12	0.00	2.34	0.00	77.5	0.0	0.	0.00
239	8.600	32.55	0.0	0.0	0.0	6.74	17.51	0.00	17.51	0.00	2.21	0.12	0.00	2.33	0.00	77.0	0.0	0.	0.00
240	8.500	32.55	0.0	0.0	0.0	6.77	17.40	0.00	17.40	0.00	2.21	0.11	0.00	2.32	0.00	76.6	0.0	0.	0.00
241	8.400	32.55	0.0	0.0	0.0	6.79	17.29	0.00	17.29	0.00	2.20	0.11	0.00	2.32	0.00	76.1	0.0	0.	0.00
242	8.300	32.55	0.0	0.0	0.0	6.81	17.19	0.00	17.19	0.00	2.20	0.11	0.00	2.31	0.00	75.6	0.0	0.	0.00
243	8.200	32.55	0.0	0.0	0.0	6.83	17.09	0.00	17.09	0.00	2.19	0.11	0.00	2.30	0.00	75.1	0.0	0.	0.00
244	8.100	32.54	0.0	0.0	0.0	6.85	16.99	0.00	16.99	0.00	2.18	0.11	0.00	2.30	0.00	74.7	0.0	0.	0.00
245	8.000	32.54	0.0	0.0	0.0	6.86	16.90	0.00	16.90	0.00	2.18	0.11	0.00	2.29	0.00	74.2	0.0	0.	0.00
246	7.900	32.54	0.0	0.0	0.0	6.88	16.81	0.00	16.81	0.00	2.17	0.11	0.00	2.28	0.00	73.7	0.0	0.	0.00
247	7.800	32.54	0.0	0.0	0.0	6.89	16.72	0.00	16.72	0.00	2.17	0.11	0.00	2.28	0.00	73.2	0.0	0.	0.00
248	7.700	32.54	0.0	0.0	0.0	6.90	16.64	0.00	16.64	0.00	2.16	0.11	0.00	2.27	0.00	72.8	0.0	0.	0.00
249	7.600	32.54	0.0	0.0	0.0	6.90	16.55	0.00	16.55	0.00	2.15	0.11	0.00	2.26	0.00	72.3	0.0	0.	0.00
250	7.500	32.54	0.0	0.0	0.0	6.91	16.47	0.00	16.47	0.00	2.15	0.11	0.00	2.26	0.00	71.8	0.0	0.	0.00
251	7.400	32.54	0.0	0.0	0.0	6.91	16.40	0.00	16.40	0.00	2.14	0.11	0.00	2.25	0.00	71.3	0.0	0.	0.00
252	7.300	32.54	0.0	0.0	0.0	6.91	16.32	0.00	16.32	0.00	2.14	0.11	0.00	2.24	0.00	70.9	0.0	0.	0.00
253	7.200	32.54	0.0	0.0	0.0	6.90	16.25	0.00	16.25	0.00	2.13	0.11	0.00	2.24	0.00	70.4	0.0	0.	0.00
254	7.100	32.54	0.0	0.0	0.0	6.90	16.18	0.00	16.18	0.00	2.12	0.11	0.00	2.23	0.00	69.9	0.0	0.	0.00
255	7.000	32.54	0.0	0.0	0.0	6.89	16.11	0.00	16.11	0.00	2.12	0.11	0.00	2.23	0.00	69.4	0.0	0.	0.00
256	6.900	32.53	0.0	0.0	0.0	6.88	16.04	0.00	16.04	0.00	2.11	0.11	0.00	2.22	0.00	69.0	0.0	0.	0.00
257	6.800	32.53	0.0	0.0	0.0	6.87	15.98	0.00	15.98	0.00	2.11	0.11	0.00	2.21	0.00	68.5	0.0	0.	0.00
258	6.700	32.53	0.0	0.0	0.0	6.86	15.91	0.00	15.91	0.00	2.10	0.11	0.00	2.21	0.00	68.0	0.0	0.	0.00
259	6.600	32.53	0.0	0.0	0.0	6.84	15.85	0.00	15.85	0.00	2.09	0.11	0.00	2.20	0.00	67.5	0.0	0.	0.00
260	6.500	32.53	0.0	0.0	0.0	6.83	15.79	0.00	15.79	0.00	2.09	0.11	0.00	2.19	0.00	67.1	0.0	0.	0.00
261	6.400	32.53	0.0	0.0	0.0	6.81	15.74	0.00	15.74	0.00	2.08	0.11	0.00	2.19	0.00	66.6	0.0	0.	0.00
262	6.300	32.53	0.0	0.0	0.0	6.79	15.68	0.00	15.68	0.00	2.08	0.11	0.00	2.18	0.00	66.1	0.0	0.	0.00
263	6.200	32.53	0.0	0.0	0.0	6.77	15.63	0.00	15.63	0.00	2.07	0.11	0.00	2.18	0.00	65.6	0.0	0.	0.00
264	6.100	32.53	0.0	0.0	0.0	6.74	15.58	0.00	15.58	0.00	2.06	0.11	0.00	2.17	0.00	65.2	0.0	0.	0.00

265	6.000	32.53	0.0	0.0	0.0	6.72	15.53	0.00	15.53	0.00	2.06	0.11	0.00	2.16	0.00	64.7	0.0	0.	0.00
266	5.900	32.53	0.0	0.0	0.0	6.69	15.48	0.00	15.48	0.00	2.05	0.11	0.00	2.16	0.00	64.2	0.0	0.	0.00
267	5.800	32.53	0.0	0.0	0.0	6.66	15.43	0.00	15.43	0.00	2.05	0.10	0.00	2.15	0.00	63.8	0.0	0.	0.00
268	5.700	32.52	0.0	0.0	0.0	6.63	15.38	0.00	15.38	0.00	2.04	0.10	0.00	2.15	0.00	63.3	0.0	0.	0.00
269	5.600	32.52	0.0	0.0	0.0	6.60	15.34	0.00	15.34	0.00	2.04	0.10	0.00	2.14	0.00	62.8	0.0	0.	0.00
270	5.500	32.52	0.0	0.0	0.0	6.56	15.30	0.00	15.30	0.00	2.03	0.10	0.00	2.13	0.00	62.3	0.0	0.	0.00
271	5.400	32.52	0.0	0.0	0.0	6.53	15.25	0.00	15.25	0.00	2.02	0.10	0.00	2.13	0.00	61.9	0.0	0.	0.00
272	5.300	32.52	0.0	0.0	0.0	6.49	15.21	0.00	15.21	0.00	2.02	0.10	0.00	2.12	0.00	61.4	0.0	0.	0.00
273	5.200	32.52	0.0	0.0	0.0	6.45	15.17	0.00	15.17	0.00	2.01	0.10	0.00	2.12	0.00	60.9	0.0	0.	0.00
274	5.100	32.52	0.0	0.0	0.0	6.41	15.14	0.00	15.14	0.00	2.01	0.10	0.00	2.11	0.00	60.4	0.0	0.	0.00
275	5.000	32.52	0.0	0.0	0.0	6.37	15.10	0.00	15.10	0.00	2.00	0.10	0.00	2.10	0.00	60.0	0.0	0.	0.00
276	4.900	32.52	0.0	0.0	0.0	6.33	15.06	0.00	15.06	0.00	2.00	0.10	0.00	2.10	0.00	59.5	0.0	0.	0.00
277	4.800	32.52	0.0	0.0	0.0	6.29	15.03	0.00	15.03	0.00	1.99	0.10	0.00	2.09	0.00	59.0	0.0	0.	0.00
278	4.700	32.52	0.0	0.0	0.0	6.24	14.99	0.00	14.99	0.00	1.98	0.10	0.00	2.09	0.00	58.5	0.0	0.	0.00
279	4.600	32.51	0.0	0.0	0.0	6.20	14.96	0.00	14.96	0.00	1.98	0.10	0.00	2.08	0.00	58.1	0.0	0.	0.00
280	4.500	32.51	0.0	0.0	0.0	6.15	14.93	0.00	14.93	0.00	1.97	0.10	0.00	2.07	0.00	57.6	0.0	0.	0.00
281	4.400	32.51	0.0	0.0	0.0	6.10	14.90	0.00	14.90	0.00	1.97	0.10	0.00	2.07	0.00	57.1	0.0	0.	0.00
282	4.300	32.51	0.0	0.0	0.0	6.05	14.87	0.00	14.87	0.00	1.96	0.10	0.00	2.06	0.00	56.6	0.0	0.	0.00
283	4.200	32.51	0.0	0.0	0.0	6.00	14.84	0.00	14.84	0.00	1.96	0.10	0.00	2.06	0.00	56.2	0.0	0.	0.00
284	4.100	32.51	0.0	0.0	0.0	5.95	14.81	0.00	14.81	0.00	1.95	0.10	0.00	2.05	0.00	55.7	0.0	0.	0.00
285	4.000	32.51	0.0	0.0	0.0	5.89	14.79	0.00	14.79	0.00	1.95	0.10	0.00	2.05	0.00	55.2	0.0	0.	0.00
286	3.900	32.51	0.0	0.0	0.0	5.84	14.76	0.00	14.76	0.00	1.94	0.10	0.00	2.04	0.00	54.7	0.0	0.	0.00
287	3.800	32.51	0.0	0.0	0.0	5.79	14.73	0.00	14.73	0.00	1.93	0.10	0.00	2.03	0.00	54.3	0.0	0.	0.00
288	3.700	32.51	0.0	0.0	0.0	5.73	14.71	0.00	14.71	0.00	1.93	0.10	0.00	2.03	0.00	53.8	0.0	0.	0.00
289	3.600	32.51	0.0	0.0	0.0	5.67	14.69	0.00	14.69	0.00	1.92	0.10	0.00	2.02	0.00	53.3	0.0	0.	0.00
290	3.500	32.51	0.0	0.0	0.0	5.61	14.66	0.00	14.66	0.00	1.92	0.10	0.00	2.02	0.00	52.8	0.0	0.	0.00
291	3.400	32.50	0.0	0.0	0.0	5.55	14.64	0.00	14.64	0.00	1.91	0.10	0.00	2.01	0.00	52.4	0.0	0.	0.00
292	3.300	32.50	0.0	0.0	0.0	5.49	14.62	0.00	14.62	0.00	1.91	0.10	0.00	2.01	0.00	51.9	0.0	0.	0.00
293	3.200	32.50	0.0	0.0	0.0	5.43	14.60	0.00	14.60	0.00	1.90	0.10	0.00	2.00	0.00	51.4	0.0	0.	0.00
294	3.100	32.50	0.0	0.0	0.0	5.37	14.58	0.00	14.58	0.00	1.90	0.10	0.00	2.00	0.00	50.9	0.0	0.	0.00
295	3.000	32.50	0.0	0.0	0.0	5.31	14.56	0.00	14.56	0.00	1.89	0.10	0.00	1.99	0.00	50.5	0.0	0.	0.00
296	2.900	32.50	0.0	0.0	0.0	5.27	14.53	0.00	14.53	0.00	1.89	0.10	0.00	1.99	0.00	50.0	0.0	0.	0.00
297	2.800	32.44	0.0	0.0	0.0	5.25	14.49	0.00	14.49	0.00	1.89	0.10	0.00	1.99	0.00	48.3	0.0	0.	0.00
298	2.700	32.38	0.0	0.0	0.0	5.23	14.43	0.00	14.43	0.00	1.89	0.10	0.00	1.99	0.00	46.7	0.0	0.	0.00
299	2.600	32.32	0.0	0.0	0.0	5.21	14.38	0.00	14.38	0.00	1.89	0.10	0.00	1.98	0.00	45.0	0.0	0.	0.00
300	2.500	32.27	0.0	0.0	0.0	5.19	14.33	0.00	14.33	0.00	1.88	0.10	0.00	1.98	0.00	43.4	0.0	0.	0.00
301	2.400	32.21	0.0	0.0	0.0	5.16	14.28	0.00	14.28	0.00	1.88	0.10	0.00	1.98	0.00	41.7	0.0	0.	0.00
302	2.300	32.15	0.0	0.0	0.0	5.13	14.23	0.00	14.23	0.00	1.88	0.10	0.00	1.98	0.00	40.1	0.0	0.	0.00
303	2.200	32.09	0.0	0.0	0.0	5.11	14.18	0.00	14.18	0.00	1.88	0.10	0.00	1.98	0.00	38.4	0.0	0.	0.00
304	2.100	32.03	0.0	0.0	0.0	5.07	14.13	0.00	14.13	0.00	1.88	0.10	0.00	1.98	0.00	36.8	0.0	0.	0.00
305	2.000	31.97	0.0	0.0	0.0	5.04	14.08	0.00	14.08	0.00	1.88	0.10	0.00	1.98	0.00	35.1	0.0	0.	0.00
306	1.900	31.91	0.0	0.0	0.0	5.01	14.03	0.00	14.03	0.00	1.88	0.10	0.00	1.98	0.00	33.4	0.0	0.	0.00
307	1.800	31.86	0.0	0.0	0.0	4.97	13.98	0.00	13.98	0.00	1.88	0.10	0.00	1.98	0.00	31.8	0.0	0.	0.00
308	1.700	31.80	0.0	0.0	0.0	4.93	13.94	0.00	13.94	0.00	1.88	0.10	0.00	1.98	0.00	30.1	0.0	0.	0.00
309	1.600	31.74	0.0	0.0	0.0	4.89	13.89	0.00	13.89	0.00	1.88	0.10	0.00	1.98	0.00	28.5	0.0	0.	0.00
310	1.500	31.68	0.0	0.0	0.0	4.85	13.84	0.00	13.84	0.00	1.88	0.10	0.00	1.97	0.00	26.8	0.0	0.	0.00
311	1.400	31.62	0.0	0.0	0.0	4.81	13.80	0.00	13.80	0.00	1.87	0.10	0.00	1.97	0.00	25.2	0.0	0.	0.00
312	1.300	31.56	0.0	0.0	0.0	4.76	13.75	0.00	13.75	0.00	1.87	0.10	0.00	1.97	0.00	23.5	0.0	0.	0.00
313	1.200	31.50	0.0	0.0	0.0	4.71	13.71	0.00	13.71	0.00	1.87	0.10	0.00	1.97	0.00	21.9	0.0	0.	0.00
314	1.100	31.44	0.0	0.0	0.0	4.66	13.66	0.00	13.66	0.00	1.87	0.10	0.00	1.97	0.00	20.2	0.0	0.	0.00

315	1.000	31.39	0.0	0.0	0.0	4.61	13.62	0.00	13.62	0.00	1.87	0.10	0.00	1.97	0.00	18.6	0.0	0.	0.00	
316	0.900	31.33	0.0	0.0	0.0	4.56	13.58	0.00	13.58	0.00	1.87	0.10	0.00	1.97	0.00	16.9	0.0	0.	0.00	
317	0.800	31.27	0.0	0.0	0.0	4.51	13.53	0.00	13.53	0.00	1.87	0.10	0.00	1.97	0.00	15.2	0.0	0.	0.00	
318	0.700	31.21	0.0	0.0	0.0	4.45	13.49	0.00	13.49	0.00	1.87	0.10	0.00	1.97	0.00	13.6	0.0	0.	0.00	
319	0.600	31.15	0.0	0.0	0.0	4.39	13.45	0.00	13.45	0.00	1.87	0.10	0.00	1.97	0.00	11.9	0.0	0.	0.00	
320	0.500	31.09	0.0	0.0	0.0	4.34	13.41	0.00	13.41	0.00	1.87	0.10	0.00	1.97	0.00	10.3	0.0	0.	0.00	
321	0.400	31.03	0.0	0.0	0.0	4.28	13.37	0.00	13.37	0.00	1.87	0.10	0.00	1.97	0.00	8.6	0.0	0.	0.00	
322	0.300	30.98	0.0	0.0	0.0	4.21	13.33	0.00	13.33	0.00	1.86	0.10	0.00	1.96	0.00	7.0	0.0	0.	0.00	
323	0.200	30.92	0.0	0.0	0.0	4.15	13.28	0.00	13.28	0.00	1.86	0.10	0.00	1.96	0.00	5.3	0.0	0.	0.00	
324	0.100	30.86	0.0	0.0	0.0	4.09	13.14	0.00	13.14	0.00	1.84	0.10	0.00	1.94	0.00	3.7	0.0	0.	0.00	
325	0.000	30.80	0.0	0.0	0.0	4.09	11.74	0.00	11.74	0.00	1.60	0.10	0.00	1.70	0.00	2.0	0.0	0.	0.00	

SPECIAL REPORT: Fourmile Bayou Oxbow

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 µg/L	TOTN **	PHOS	CHL A *	MACRO	COLI #/100mL	NCM
56	4.100	33.88	0.0	0.0	0.0	6.67	25.52	0.00	25.52	0.00	1.73	0.10	0.03	1.85	0.00	93.5	0.0	0.	0.00
57	4.000	33.85	0.0	0.0	0.0	6.54	25.55	0.00	25.55	0.00	1.75	0.10	0.02	1.87	0.00	91.9	0.0	0.	0.00
58	3.900	33.83	0.0	0.0	0.0	6.41	25.57	0.00	25.57	0.00	1.77	0.10	0.01	1.88	0.00	90.4	0.0	0.	0.00
59	3.800	33.80	0.0	0.0	0.0	6.28	25.59	0.00	25.59	0.00	1.80	0.10	0.00	1.90	0.00	88.8	0.0	0.	0.00
60	3.700	33.78	0.0	0.0	0.0	6.15	25.62	0.00	25.62	0.00	1.82	0.10	0.00	1.92	0.00	87.3	0.0	0.	0.00
61	3.600	33.76	0.0	0.0	0.0	6.01	25.64	0.00	25.64	0.00	1.84	0.10	0.00	1.94	0.00	85.7	0.0	0.	0.00
62	3.500	33.73	0.0	0.0	0.0	5.87	25.66	0.00	25.66	0.00	1.87	0.10	0.00	1.97	0.00	84.2	0.0	0.	0.00
63	3.400	33.71	0.0	0.0	0.0	5.73	25.69	0.00	25.69	0.00	1.89	0.10	0.00	1.99	0.00	82.6	0.0	0.	0.00
64	3.300	33.69	0.0	0.0	0.0	5.59	25.71	0.00	25.71	0.00	1.91	0.10	0.00	2.01	0.00	81.1	0.0	0.	0.00
65	3.200	33.66	0.0	0.0	0.0	5.44	25.74	0.00	25.74	0.00	1.94	0.10	0.00	2.04	0.00	79.5	0.0	0.	0.00
66	3.100	33.64	0.0	0.0	0.0	5.29	25.76	0.00	25.76	0.00	1.96	0.10	0.00	2.06	0.00	78.0	0.0	0.	0.00
67	3.000	33.61	0.0	0.0	0.0	5.14	25.78	0.00	25.78	0.00	1.99	0.10	0.00	2.08	0.00	76.4	0.0	0.	0.00
68	2.900	33.59	0.0	0.0	0.0	4.98	25.81	0.00	25.81	0.00	2.01	0.10	0.00	2.11	0.00	74.9	0.0	0.	0.00
69	2.800	33.57	0.0	0.0	0.0	4.82	25.83	0.00	25.83	0.00	2.03	0.10	0.00	2.13	0.00	73.3	0.0	0.	0.00
70	2.700	33.54	0.0	0.0	0.0	4.66	25.85	0.00	25.85	0.00	2.06	0.10	0.00	2.15	0.00	71.8	0.0	0.	0.00
71	2.600	33.52	0.0	0.0	0.0	4.50	25.88	0.00	25.88	0.00	2.08	0.10	0.00	2.18	0.00	70.2	0.0	0.	0.00
72	2.500	33.50	0.0	0.0	0.0	4.34	25.90	0.00	25.90	0.00	2.10	0.10	0.00	2.20	0.00	68.7	0.0	0.	0.00
73	2.400	33.47	0.0	0.0	0.0	4.17	25.93	0.00	25.93	0.00	2.13	0.10	0.00	2.22	0.00	67.1	0.0	0.	0.00
74	2.300	33.45	0.0	0.0	0.0	4.00	25.95	0.00	25.95	0.00	2.15	0.10	0.00	2.25	0.00	65.6	0.0	0.	0.00
75	2.200	33.42	0.0	0.0	0.0	3.83	25.97	0.00	25.97	0.00	2.17	0.10	0.00	2.27	0.00	64.0	0.0	0.	0.00
76	2.100	33.40	0.0	0.0	0.0	3.65	26.00	0.00	26.00	0.00	2.20	0.10	0.00	2.30	0.00	62.5	0.0	0.	0.00
77	2.000	33.38	0.0	0.0	0.0	3.48	26.02	0.00	26.02	0.00	2.22	0.10	0.00	2.32	0.00	61.0	0.0	0.	0.00
78	1.900	33.35	0.0	0.0	0.0	3.30	26.05	0.00	26.05	0.00	2.24	0.10	0.00	2.34	0.00	59.4	0.0	0.	0.00
79	1.800	33.33	0.0	0.0	0.0	3.12	26.07	0.00	26.07	0.00	2.27	0.10	0.00	2.37	0.00	57.9	0.0	0.	0.00
80	1.700	33.30	0.0	0.0	0.0	2.93	26.10	0.00	26.10	0.00	2.29	0.10	0.00	2.39	0.00	56.3	0.0	0.	0.00
81	1.600	33.28	0.0	0.0	0.0	2.75	26.12	0.00	26.12	0.00	2.31	0.10	0.00	2.41	0.00	54.8	0.0	0.	0.00
82	1.500	33.26	0.0	0.0	0.0	2.56	26.14	0.00	26.14	0.00	2.34	0.10	0.00	2.44	0.00	53.2	0.0	0.	0.00
83	1.400	33.23	0.0	0.0	0.0	2.37	26.17	0.00	26.17	0.00	2.36	0.10	0.00	2.46	0.00	51.7	0.0	0.	0.00
84	1.300	33.21	0.0	0.0	0.0	2.18	26.19	0.00	26.19	0.00	2.38	0.10	0.00	2.49	0.00	50.1	0.0	0.	0.00
85	1.200	33.19	0.0	0.0	0.0	1.99	26.22	0.00	26.22	0.00	2.41	0.10	0.00	2.51	0.00	48.6	0.0	0.	0.00
86	1.100	33.16	0.0	0.0	0.0	1.83	26.27	0.00	26.27	0.00	2.43	0.10	0.00	2.53	0.00	47.0	0.0	0.	0.00
87	1.000	33.14	0.0	0.0	0.0	1.69	26.34	0.00	26.34	0.00	2.45	0.11	0.00	2.56	0.00	45.5	0.0	0.	0.00
88	0.900	33.11	0.0	0.0	0.0	1.58	26.43	0.00	26.43	0.00	2.48	0.11	0.00	2.58	0.00	43.9	0.0	0.	0.00
89	0.800	33.09	0.0	0.0	0.0	1.47	26.53	0.00	26.53	0.00	2.50	0.11	0.00	2.61	0.00	42.4	0.0	0.	0.00
90	0.700	33.07	0.0	0.0	0.0	1.38	26.64	0.00	26.64	0.00	2.52	0.11	0.00	2.63	0.00	40.8	0.0	0.	0.00

91	0.600	33.04	0.0	0.0	0.0	1.30	26.76	0.00	26.76	0.00	2.55	0.11	0.00	2.66	0.00	39.3	0.0	0.	0.00
92	0.500	33.02	0.0	0.0	0.0	1.23	26.89	0.00	26.89	0.00	2.57	0.11	0.00	2.68	0.00	37.7	0.0	0.	0.00
93	0.400	33.00	0.0	0.0	0.0	1.17	27.04	0.00	27.04	0.00	2.59	0.11	0.00	2.71	0.00	36.2	0.0	0.	0.00
94	0.300	32.97	0.0	0.0	0.0	1.11	27.19	0.00	27.19	0.00	2.62	0.12	0.00	2.73	0.00	34.6	0.0	0.	0.00
95	0.200	32.95	0.0	0.0	0.0	1.06	27.34	0.00	27.34	0.00	2.64	0.12	0.00	2.76	0.00	33.1	0.0	0.	0.00
96	0.100	32.92	0.0	0.0	0.0	1.03	27.47	0.00	27.47	0.00	2.66	0.12	0.00	2.78	0.00	31.5	0.0	0.	0.00
97	0.000	32.90	0.0	0.0	0.0	1.29	27.28	0.00	27.28	0.00	2.62	0.12	0.00	2.73	0.00	30.0	0.0	0.	0.00

SPECIAL REPORT: Grassy Lake

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#1 SETT	BOD#2 DECAY	ABOD#2 SOD	FULL SOD	CORR DECAY	ORG-N SETT	ORG-N DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM DECAY	NCM SETT
	km	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	28.200	7.17	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.55	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00
2	28.100	7.17	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.56	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00
3	28.000	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.56	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00
4	27.900	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
5	27.800	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
6	27.700	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
7	27.600	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
8	27.500	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
9	27.400	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
10	27.300	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
11	27.200	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
12	27.100	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.56	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
13	27.000	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
14	26.900	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
15	26.800	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
16	26.700	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
17	26.600	7.12	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
18	26.500	7.12	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
19	26.400	7.12	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
20	26.300	7.12	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
21	26.200	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
22	26.100	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
23	26.000	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
24	25.900	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
25	25.800	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
26	25.700	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
27	25.600	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
28	25.500	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
29	25.400	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
30	25.300	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
31	25.200	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
32	25.100	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
33	25.000	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
34	24.900	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.68	1.68	0.03	0.00	0.59	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
35	24.800	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.68	1.68	0.03	0.00	0.59	0.00	0.00	0.00	8.99	0.00	0.00	0.00	0.00
36	24.700	7.08	0.17	0.40	0.00	0.00	0.00	0.00	0.00	7.18	7.18	0.03	0.00	0.58	0.00	0.00	0.00	8.67	0.00	0.00	0.00	0.00
37	24.600	7.09	0.17	0.40	0.00	0.00	0.00	0.00	0.00	7.15	7.15	0.03	0.00	0.58	0.00	0.00	0.00	8.34	0.00	0.00	0.00	0.00
38	24.500	7.09	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.13	7.13	0.03	0.00	0.58	0.00	0.00	0.00	8.02	0.00	0.00	0.00	0.00

39	24.400	7.10	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.11	7.11	0.03	0.00	0.57	0.00	0.00	0.00	7.69	0.00	0.00	0.00	0.00
40	24.300	7.11	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.09	7.09	0.03	0.00	0.57	0.00	0.00	0.00	7.37	0.00	0.00	0.00	0.00
41	24.200	7.11	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.06	7.06	0.03	0.00	0.57	0.00	0.00	0.00	7.05	0.00	0.00	0.00	0.00
42	24.100	7.12	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.04	7.04	0.03	0.00	0.57	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
43	24.000	7.12	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.02	7.02	0.03	0.00	0.56	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
44	23.900	7.13	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.00	7.00	0.03	0.00	0.56	0.00	0.00	0.00	6.10	0.00	0.00	0.00	0.00
45	23.800	7.14	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.98	6.98	0.03	0.00	0.56	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00
46	23.700	7.14	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.95	6.95	0.03	0.00	0.55	0.00	0.00	0.00	5.47	0.00	0.00	0.00	0.00
47	23.600	7.15	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.93	6.93	0.03	0.00	0.55	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
48	23.500	7.15	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.91	6.91	0.03	0.00	0.54	0.00	0.00	0.00	4.85	0.00	0.00	0.00	0.00
49	23.400	7.16	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.89	6.89	0.03	0.00	0.54	0.00	0.00	0.00	4.54	0.00	0.00	0.00	0.00
50	23.300	7.16	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.87	6.87	0.03	0.00	0.54	0.00	0.00	0.00	4.23	0.00	0.00	0.00	0.00
51	23.200	7.17	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.85	6.85	0.03	0.00	0.53	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00
52	23.100	7.18	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.82	6.82	0.03	0.00	0.53	0.00	0.00	0.00	3.62	0.00	0.00	0.00	0.00
53	23.000	7.18	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.80	6.80	0.03	0.00	0.53	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00
54	22.900	7.19	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.78	6.78	0.03	0.00	0.52	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
55	22.800	7.20	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	0.03	0.00	0.52	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
98	22.700	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	0.03	0.00	0.50	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
99	22.600	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	0.03	0.00	0.50	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
100	22.500	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	0.03	0.00	0.50	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
101	22.400	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.50	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00
102	22.300	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	3.64	0.00	0.00	0.00	0.00
103	22.200	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00
104	22.100	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.01	0.00	0.00	0.00	0.00
105	22.000	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00
106	21.900	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.38	0.00	0.00	0.00	0.00
107	21.800	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00
108	21.700	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	0.03	0.00	0.48	0.00	0.00	0.00	4.75	0.00	0.00	0.00	0.00
109	21.600	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00
110	21.500	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
111	21.400	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.31	0.00	0.00	0.00	0.00
112	21.300	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.00
113	21.200	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.68	0.00	0.00	0.00	0.00
114	21.100	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.86	0.00	0.00	0.00	0.00
115	21.000	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
116	20.900	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	0.03	0.00	0.47	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00
117	20.800	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.42	0.00	0.00	0.00	0.00
118	20.700	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
119	20.600	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
120	20.500	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.97	0.00	0.00	0.00	0.00
121	20.400	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.16	0.00	0.00	0.00	0.00
122	20.300	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.34	0.00	0.00	0.00	0.00
123	20.200	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.53	0.00	0.00	0.00	0.00
124	20.100	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.71	0.00	0.00	0.00	0.00
125	20.000	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.47	0.00	0.00	0.00	7.90	0.00	0.00	0.00	0.00
126	19.900	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.47	0.00	0.00	0.00	8.08	0.00	0.00	0.00	0.00
127	19.800	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.00
128	19.700	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.45	0.00	0.00	0.00	0.00
129	19.600	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.63	0.00	0.00	0.00	0.00
130	19.500	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.82	0.00	0.00	0.00	0.00

131	19.400	7.21	0.21	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	0.03	0.00	0.47	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
132	19.300	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
133	19.200	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
134	19.100	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
135	19.000	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
136	18.900	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
137	18.800	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
138	18.700	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
139	18.600	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
140	18.500	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
141	18.400	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
142	18.300	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
143	18.200	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
144	18.100	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
145	18.000	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
146	17.900	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
147	17.800	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00
148	17.700	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.13	0.00	0.00	0.00	0.00
149	17.600	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.14	0.00	0.00	0.00	0.00
150	17.500	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.14	0.00	0.00	0.00	0.00
151	17.400	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.15	0.00	0.00	0.00	0.00
152	17.300	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.16	0.00	0.00	0.00	0.00
153	17.200	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.17	0.00	0.00	0.00	0.00
154	17.100	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.17	0.00	0.00	0.00	0.00
155	17.000	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.18	0.00	0.00	0.00	0.00
156	16.900	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
157	16.800	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.50	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
158	16.700	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	0.03	0.00	0.50	0.00	0.00	0.00	9.20	0.00	0.00	0.00	0.00
159	16.600	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.21	0.00	0.00	0.00	0.00
160	16.500	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00
161	16.400	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00
162	16.300	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.23	0.00	0.00	0.00	0.00
163	16.200	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.24	0.00	0.00	0.00	0.00
164	16.100	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.25	0.00	0.00	0.00	0.00
165	16.000	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.25	0.00	0.00	0.00	0.00
166	15.900	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.26	0.00	0.00	0.00	0.00
167	15.800	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.27	0.00	0.00	0.00	0.00
168	15.700	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
169	15.600	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
170	15.500	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.29	0.00	0.00	0.00	0.00
171	15.400	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.30	0.00	0.00	0.00	0.00
172	15.300	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.31	0.00	0.00	0.00	0.00
173	15.200	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.31	0.00	0.00	0.00	0.00
174	15.100	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00
175	15.000	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.33	0.00	0.00	0.00	0.00
176	14.900	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.34	0.00	0.00	0.00	0.00
177	14.800	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.34	0.00	0.00	0.00	0.00
178	14.700	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.35	0.00	0.00	0.00	0.00
179	14.600	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.36	0.00	0.00	0.00	0.00
180	14.500	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.47	0.00	0.00	0.00	9.36	0.00	0.00	0.00	0.00

181	14.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.47	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00
182	14.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.47	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
183	14.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.24	0.00	0.00	0.00	0.00
184	14.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
185	14.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.15	0.00	0.00	0.00	0.00
186	13.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
187	13.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
188	13.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
189	13.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	8.98	0.00	0.00	0.00	0.00
190	13.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.94	0.00	0.00	0.00	0.00
191	13.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.90	0.00	0.00	0.00	0.00
192	13.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.85	0.00	0.00	0.00	0.00
193	13.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.81	0.00	0.00	0.00	0.00
194	13.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.77	0.00	0.00	0.00	0.00
195	13.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.73	0.00	0.00	0.00	0.00
196	12.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.68	0.00	0.00	0.00	0.00
197	12.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.64	0.00	0.00	0.00	0.00
198	12.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.60	0.00	0.00	0.00	0.00
199	12.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.55	0.00	0.00	0.00	0.00
200	12.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.51	0.00	0.00	0.00	0.00
201	12.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.47	0.00	0.00	0.00	0.00
202	12.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.43	0.00	0.00	0.00	0.00
203	12.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.38	0.00	0.00	0.00	0.00
204	12.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.34	0.00	0.00	0.00	0.00
205	12.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.30	0.00	0.00	0.00	0.00
206	11.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.00
207	11.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.21	0.00	0.00	0.00	0.00
208	11.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.17	0.00	0.00	0.00	0.00
209	11.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.13	0.00	0.00	0.00	0.00
210	11.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.09	0.00	0.00	0.00	0.00
211	11.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.04	0.00	0.00	0.00	0.00
212	11.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
213	11.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	7.96	0.00	0.00	0.00	0.00
214	11.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00
215	11.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.87	0.00	0.00	0.00	0.00
216	10.900	7.23	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
217	10.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.79	0.00	0.00	0.00	0.00
218	10.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.75	0.00	0.00	0.00	0.00
219	10.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.70	0.00	0.00	0.00	0.00
220	10.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.66	0.00	0.00	0.00	0.00
221	10.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.62	0.00	0.00	0.00	0.00
222	10.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.58	0.00	0.00	0.00	0.00
223	10.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.53	0.00	0.00	0.00	0.00
224	10.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.49	0.00	0.00	0.00	0.00
225	10.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00
226	9.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.41	0.00	0.00	0.00	0.00
227	9.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.36	0.00	0.00	0.00	0.00
228	9.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.32	0.00	0.00	0.00	0.00
229	9.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.28	0.00	0.00	0.00	0.00
230	9.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.24	0.00	0.00	0.00	0.00

231	9.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.19	0.00	0.00	0.00	0.00
232	9.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.15	0.00	0.00	0.00	0.00
233	9.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.11	0.00	0.00	0.00	0.00
234	9.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.07	0.00	0.00	0.00	0.00
235	9.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.02	0.00	0.00	0.00	0.00
236	8.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.98	0.00	0.00	0.00	0.00
237	8.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.94	0.00	0.00	0.00	0.00
238	8.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.90	0.00	0.00	0.00	0.00
239	8.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
240	8.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
241	8.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
242	8.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
243	8.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
244	8.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
245	8.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
246	7.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
247	7.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
248	7.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
249	7.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.43	0.00	0.00	0.00	0.00
250	7.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.39	0.00	0.00	0.00	0.00
251	7.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.34	0.00	0.00	0.00	0.00
252	7.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00
253	7.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00
254	7.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.22	0.00	0.00	0.00	0.00
255	7.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.17	0.00	0.00	0.00	0.00
256	6.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.13	0.00	0.00	0.00	0.00
257	6.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.09	0.00	0.00	0.00	0.00
258	6.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
259	6.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.01	0.00	0.00	0.00	0.00
260	6.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.96	0.00	0.00	0.00	0.00
261	6.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00
262	6.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.88	0.00	0.00	0.00	0.00
263	6.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.84	0.00	0.00	0.00	0.00
264	6.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.79	0.00	0.00	0.00	0.00
265	6.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00
266	5.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.71	0.00	0.00	0.00	0.00
267	5.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.67	0.00	0.00	0.00	0.00
268	5.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.62	0.00	0.00	0.00	0.00
269	5.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.58	0.00	0.00	0.00	0.00
270	5.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.54	0.00	0.00	0.00	0.00
271	5.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00
272	5.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.45	0.00	0.00	0.00	0.00
273	5.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.41	0.00	0.00	0.00	0.00
274	5.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.37	0.00	0.00	0.00	0.00
275	5.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.33	0.00	0.00	0.00	0.00
276	4.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.28	0.00	0.00	0.00	0.00
277	4.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.00
278	4.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.20	0.00	0.00	0.00	0.00
279	4.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
280	4.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00

281	4.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00
282	4.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00
283	4.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00
284	4.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.95	0.00	0.00	0.00	0.00
285	4.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00
286	3.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.86	0.00	0.00	0.00	0.00
287	3.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.82	0.00	0.00	0.00	0.00
288	3.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.78	0.00	0.00	0.00	0.00
289	3.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.73	0.00	0.00	0.00	0.00
290	3.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.69	0.00	0.00	0.00	0.00
291	3.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.65	0.00	0.00	0.00	0.00
292	3.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.61	0.00	0.00	0.00	0.00
293	3.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00
294	3.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.50	0.00	0.00	0.00	4.52	0.00	0.00	0.00	0.00
295	3.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.50	0.00	0.00	0.00	4.48	0.00	0.00	0.00	0.00
296	2.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
297	2.800	7.25	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.53	1.53	0.03	0.00	0.50	0.00	0.00	0.00	4.28	0.00	0.00	0.00	0.00
298	2.700	7.26	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.53	1.53	0.03	0.00	0.50	0.00	0.00	0.00	4.12	0.00	0.00	0.00	0.00
299	2.600	7.26	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.52	1.52	0.03	0.00	0.49	0.00	0.00	0.00	3.97	0.00	0.00	0.00	0.00
300	2.500	7.27	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.52	1.52	0.03	0.00	0.49	0.00	0.00	0.00	3.81	0.00	0.00	0.00	0.00
301	2.400	7.28	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.51	1.51	0.03	0.00	0.49	0.00	0.00	0.00	3.65	0.00	0.00	0.00	0.00
302	2.300	7.29	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.48	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00
303	2.200	7.29	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.50	1.50	0.03	0.00	0.48	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00
304	2.100	7.30	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.48	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
305	2.000	7.31	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.48	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
306	1.900	7.32	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.47	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
307	1.800	7.32	0.48	0.34	0.00	0.00	0.00	0.00	0.00	1.48	1.48	0.03	0.00	0.47	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
308	1.700	7.33	0.48	0.34	0.00	0.00	0.00	0.00	0.00	1.47	1.47	0.03	0.00	0.47	0.00	0.00	0.00	2.59	0.00	0.00	0.00	0.00
309	1.600	7.34	0.48	0.34	0.00	0.00	0.00	0.00	0.00	1.47	1.47	0.03	0.00	0.46	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00
310	1.500	7.34	0.48	0.34	0.00	0.00	0.00	0.00	0.00	1.46	1.46	0.03	0.00	0.46	0.00	0.00	0.00	2.29	0.00	0.00	0.00	0.00
311	1.400	7.35	0.48	0.34	0.00	0.00	0.00	0.00	0.00	1.46	1.46	0.03	0.00	0.46	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
312	1.300	7.36	0.48	0.34	0.00	0.00	0.00	0.00	0.00	1.45	1.45	0.03	0.00	0.45	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
313	1.200	7.37	0.47	0.34	0.00	0.00	0.00	0.00	0.00	1.44	1.44	0.03	0.00	0.45	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
314	1.100	7.37	0.47	0.34	0.00	0.00	0.00	0.00	0.00	1.44	1.44	0.03	0.00	0.45	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
315	1.000	7.38	0.47	0.34	0.00	0.00	0.00	0.00	0.00	1.43	1.43	0.03	0.00	0.44	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
316	0.900	7.39	0.47	0.34	0.00	0.00	0.00	0.00	0.00	1.43	1.43	0.03	0.00	0.44	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
317	0.800	7.40	0.47	0.34	0.00	0.00	0.00	0.00	0.00	1.42	1.42	0.03	0.00	0.44	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
318	0.700	7.40	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.42	1.42	0.02	0.00	0.43	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
319	0.600	7.41	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.41	1.41	0.02	0.00	0.43	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
320	0.500	7.42	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.41	1.41	0.02	0.00	0.43	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
321	0.400	7.43	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.40	1.40	0.02	0.00	0.42	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
322	0.300	7.43	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.40	1.40	0.02	0.00	0.42	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
323	0.200	7.44	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.39	1.39	0.02	0.00	0.42	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
324	0.100	7.45	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.39	1.39	0.02	0.00	0.41	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
325	0.000	7.46	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.38	1.38	0.02	0.00	0.41	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00

SPECIAL REPORT: Fourmile Bayou Oxbow

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 *	ABOD#2 SOD 1/da	FULL SOD 1/da	CORR DECAY *	ORG-N SETT 1/da	ORG-N DECAY **	NH3 SRCE **	NH3 RATE 1/da	SRCE 1/da	DENIT PROD 1/da	PO4 PROD 1/da	ALG DECAY 1/da	MAC DECAY 1/da	COLI SETT 1/da	NCM	NCM

56	4.100	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.19	7.19	0.03	0.00	0.59	0.00	0.00	0.00	8.84	0.00	0.00	0.00	0.00
57	4.000	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.18	7.18	0.03	0.00	0.58	0.00	0.00	0.00	8.68	0.00	0.00	0.00	0.00
58	3.900	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.17	7.17	0.03	0.00	0.58	0.00	0.00	0.00	8.53	0.00	0.00	0.00	0.00
59	3.800	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.16	7.16	0.03	0.00	0.58	0.00	0.00	0.00	8.37	0.00	0.00	0.00	0.00
60	3.700	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.15	7.15	0.03	0.00	0.57	0.00	0.00	0.00	8.22	0.00	0.00	0.00	0.00
61	3.600	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.13	7.13	0.03	0.00	0.57	0.00	0.00	0.00	8.06	0.00	0.00	0.00	0.00
62	3.500	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.12	7.12	0.03	0.00	0.57	0.00	0.00	0.00	7.91	0.00	0.00	0.00	0.00
63	3.400	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.11	7.11	0.03	0.00	0.56	0.00	0.00	0.00	7.75	0.00	0.00	0.00	0.00
64	3.300	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.10	7.10	0.03	0.00	0.56	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00
65	3.200	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.09	7.09	0.03	0.00	0.55	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00
66	3.100	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.08	7.08	0.03	0.00	0.55	0.00	0.00	0.00	7.29	0.00	0.00	0.00	0.00
67	3.000	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.07	7.07	0.03	0.00	0.55	0.00	0.00	0.00	7.14	0.00	0.00	0.00	0.00
68	2.900	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.06	7.06	0.03	0.00	0.54	0.00	0.00	0.00	6.99	0.00	0.00	0.00	0.00
69	2.800	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.05	7.05	0.03	0.00	0.53	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
70	2.700	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.04	7.04	0.03	0.00	0.53	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
71	2.600	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.03	7.03	0.03	0.00	0.52	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00
72	2.500	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.02	7.02	0.03	0.00	0.52	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00
73	2.400	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.01	7.01	0.03	0.00	0.51	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00
74	2.300	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.00	7.00	0.03	0.00	0.50	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00
75	2.200	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.99	6.99	0.03	0.00	0.50	0.00	0.00	0.00	5.93	0.00	0.00	0.00	0.00
76	2.100	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.98	6.98	0.03	0.00	0.49	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00
77	2.000	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.97	6.97	0.03	0.00	0.48	0.00	0.00	0.00	5.63	0.00	0.00	0.00	0.00
78	1.900	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.96	6.96	0.03	0.00	0.47	0.00	0.00	0.00	5.48	0.00	0.00	0.00	0.00
79	1.800	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.94	6.94	0.03	0.00	0.46	0.00	0.00	0.00	5.34	0.00	0.00	0.00	0.00
80	1.700	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.93	6.93	0.03	0.00	0.45	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.00
81	1.600	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.92	6.92	0.03	0.00	0.44	0.00	0.00	0.00	5.04	0.00	0.00	0.00	0.00
82	1.500	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.91	6.91	0.03	0.00	0.43	0.00	0.00	0.00	4.89	0.00	0.00	0.00	0.00
83	1.400	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.90	6.90	0.03	0.00	0.42	0.00	0.00	0.00	4.74	0.00	0.00	0.00	0.00
84	1.300	7.16	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.89	6.89	0.03	0.00	0.40	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00
85	1.200	7.16	0.36	0.38	0.00	0.00	0.00	0.00	0.00	6.88	6.86	0.03	0.00	0.39	0.00	0.00	0.00	4.45	0.00	0.00	0.00	0.00
86	1.100	7.16	0.36	0.35	0.00	0.00	0.00	0.00	0.00	6.87	6.30	0.03	0.00	0.29	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00
87	1.000	7.17	0.36	0.33	0.00	0.00	0.00	0.00	0.00	6.86	5.81	0.03	0.00	0.21	0.00	0.00	0.00	4.16	0.00	0.00	0.00	0.00
88	0.900	7.17	0.36	0.30	0.00	0.00	0.00	0.00	0.00	6.85	5.40	0.03	0.00	0.16	0.00	0.00	0.00	4.01	0.00	0.00	0.00	0.00
89	0.800	7.17	0.35	0.28	0.00	0.00	0.00	0.00	0.00	6.84	5.03	0.03	0.00	0.12	0.00	0.00	0.00	3.87	0.00	0.00	0.00	0.00
90	0.700	7.18	0.35	0.26	0.00	0.00	0.00	0.00	0.00	6.83	4.72	0.03	0.00	0.10	0.00	0.00	0.00	3.72	0.00	0.00	0.00	0.00
91	0.600	7.18	0.35	0.25	0.00	0.00	0.00	0.00	0.00	6.82	4.44	0.03	0.00	0.08	0.00	0.00	0.00	3.58	0.00	0.00	0.00	0.00
92	0.500	7.18	0.35	0.23	0.00	0.00	0.00	0.00	0.00	6.81	4.19	0.03	0.00	0.06	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00
93	0.400	7.18	0.35	0.22	0.00	0.00	0.00	0.00	0.00	6.80	3.97	0.03	0.00	0.05	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
94	0.300	7.19	0.35	0.21	0.00	0.00	0.00	0.00	0.00	6.79	3.77	0.03	0.00	0.04	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00
95	0.200	7.19	0.35	0.20	0.00	0.00	0.00	0.00	0.00	6.78	3.60	0.03	0.00	0.04	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
96	0.100	7.19	0.35	0.20	0.00	0.00	0.00	0.00	0.00	6.77	3.49	0.03	0.00	0.03	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
97	0.000	7.20	0.35	0.25	0.00	0.00	0.00	0.00	0.00	6.76	4.36	0.03	0.00	0.08	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00

FINAL REPORT Grassy Lake LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 1 Grassy Lake Calibration Simulation for Lake Verret and Grassy Lake 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
1	HDWTR	60.70000	33.10	0.00	0.00	0.00	6.70	23.50	0.00	23.50	0.00	1.60	0.10	0.04	0.00	100.00	0.00	0.00
26	WSTLD	-8.80000	33.69	0.00	0.00	0.00	6.58	23.60	0.00	23.60	0.00	1.71	0.09	0.00	0.00	96.29	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF m/s	ADVCTV VELO days	TRAVEL TIME m	DEPTH m	WIDTH m³	VOLUME m²	AREA m²	AREA m³	PRISM m/s	SURFACE VELO m²/s	X-SECT VELO m/s	TIDAL	TIDAL	DISPRSN	MEAN
1	28.30	28.20	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
2	28.20	28.10	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
3	28.10	28.00	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
4	28.00	27.90	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
5	27.90	27.80	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
6	27.80	27.70	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
7	27.70	27.60	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
8	27.60	27.50	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
9	27.50	27.40	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
10	27.40	27.30	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
11	27.30	27.20	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
12	27.20	27.10	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
13	27.10	27.00	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
14	27.00	26.90	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
15	26.90	26.80	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
16	26.80	26.70	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
17	26.70	26.60	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
18	26.60	26.50	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
19	26.50	26.40	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
20	26.40	26.30	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
21	26.30	26.20	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
22	26.20	26.10	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
23	26.10	26.00	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
24	26.00	25.90	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
25	25.90	25.80	60.70000	0.0	0.04475	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.045			
26	25.80	25.70	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.038			
27	25.70	25.60	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.038			
28	25.60	25.50	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.038			
29	25.50	25.40	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.038			
30	25.40	25.30	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.038			
31	25.30	25.20	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.038			
32	25.20	25.10	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.038			
33	25.10	25.00	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.038			
34	25.00	24.90	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.038			
35	24.90	24.80	51.90000	0.0	0.03826	0.03	1.01	1343.00	135643.00	134300.00	1356.43	0.00	0.000	0.500	0.038			
TOT					0.95				4747505.00	4700500.00								
AVG				0.0427			1.01	1343.00			1356.43							
CUM					0.95													

********** 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 *	ORGN SRCE **	NH3 RATE **	NH3 SRCE 1/da	DENIT PROD 1/da	PO4 PROD 1/da	ALG DECAY 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
1	28.200	7.17	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.55	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00			
2	28.100	7.17	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.56	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00			
3	28.000	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.56	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00			
4	27.900	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00			
5	27.800	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00			

6	27.700	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
7	27.600	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
8	27.500	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
9	27.400	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
10	27.300	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
11	27.200	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
12	27.100	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.56	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
13	27.000	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
14	26.900	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
15	26.800	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
16	26.700	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
17	26.600	7.12	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
18	26.500	7.12	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
19	26.400	7.12	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
20	26.300	7.12	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
21	26.200	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
22	26.100	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
23	26.000	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
24	25.900	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
25	25.800	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
26	25.700	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
27	25.600	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
28	25.500	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
29	25.400	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
30	25.300	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
31	25.200	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
32	25.100	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
33	25.000	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
34	24.900	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.68	1.68	1.68	0.03	0.00	0.59	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
35	24.800	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.68	1.68	1.68	0.03	0.00	0.59	0.00	0.00	0.00	8.99	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.74	0.18	0.00	0.00	0.00	0.00	0.00	0.70			0.02	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
1	28.200	33.12	0.00	0.00	0.00	6.70	23.51	0.00	23.51	0.00	1.60	0.10	0.03	1.73	0.00	99.86	0.00	0.	0.00	
2	28.100	33.15	0.00	0.00	0.00	6.70	23.51	0.00	23.51	0.00	1.61	0.10	0.02	1.73	0.00	99.71	0.00	0.	0.00	
3	28.000	33.17	0.00	0.00	0.00	6.70	23.52	0.00	23.52	0.00	1.61	0.10	0.01	1.72	0.00	99.57	0.00	0.	0.00	
4	27.900	33.19	0.00	0.00	0.00	6.70	23.53	0.00	23.53	0.00	1.62	0.10	0.00	1.72	0.00	99.43	0.00	0.	0.00	
5	27.800	33.21	0.00	0.00	0.00	6.70	23.53	0.00	23.53	0.00	1.62	0.10	0.00	1.72	0.00	99.29	0.00	0.	0.00	
6	27.700	33.24	0.00	0.00	0.00	6.69	23.54	0.00	23.54	0.00	1.63	0.10	0.00	1.72	0.00	99.14	0.00	0.	0.00	
7	27.600	33.26	0.00	0.00	0.00	6.69	23.54	0.00	23.54	0.00	1.63	0.10	0.00	1.73	0.00	99.00	0.00	0.	0.00	
8	27.500	33.28	0.00	0.00	0.00	6.69	23.55	0.00	23.55	0.00	1.64	0.10	0.00	1.73	0.00	98.86	0.00	0.	0.00	
9	27.400	33.31	0.00	0.00	0.00	6.69	23.55	0.00	23.55	0.00	1.64	0.10	0.00	1.74	0.00	98.71	0.00	0.	0.00	
10	27.300	33.33	0.00	0.00	0.00	6.68	23.56	0.00	23.56	0.00	1.64	0.10	0.00	1.74	0.00	98.57	0.00	0.	0.00	
11	27.200	33.35	0.00	0.00	0.00	6.68	23.56	0.00	23.56	0.00	1.65	0.10	0.00	1.74	0.00	98.43	0.00	0.	0.00	
12	27.100	33.37	0.00	0.00	0.00	6.67	23.57	0.00	23.57	0.00	1.65	0.10	0.00	1.75	0.00	98.29	0.00	0.	0.00	
13	27.000	33.40	0.00	0.00	0.00	6.67	23.57	0.00	23.57	0.00	1.66	0.10	0.00	1.75	0.00	98.14	0.00	0.	0.00	
14	26.900	33.42	0.00	0.00	0.00	6.66	23.58	0.00	23.58	0.00	1.66	0.10	0.00	1.76	0.00	98.00	0.00	0.	0.00	
15	26.800	33.44	0.00	0.00	0.00	6.66	23.58	0.00	23.58	0.00	1.67	0.10	0.00	1.76	0.00	97.86	0.00	0.	0.00	

16	26.700	33.47	0.00	0.00	0.00	6.65	23.58	0.00	23.58	0.00	1.67	0.10	0.00	1.77	0.00	97.71	0.00	0.	0.00
17	26.600	33.49	0.00	0.00	0.00	6.65	23.59	0.00	23.59	0.00	1.67	0.09	0.00	1.77	0.00	97.57	0.00	0.	0.00
18	26.500	33.51	0.00	0.00	0.00	6.64	23.59	0.00	23.59	0.00	1.68	0.09	0.00	1.77	0.00	97.43	0.00	0.	0.00
19	26.400	33.53	0.00	0.00	0.00	6.64	23.59	0.00	23.59	0.00	1.68	0.09	0.00	1.78	0.00	97.29	0.00	0.	0.00
20	26.300	33.56	0.00	0.00	0.00	6.63	23.59	0.00	23.59	0.00	1.69	0.09	0.00	1.78	0.00	97.14	0.00	0.	0.00
21	26.200	33.58	0.00	0.00	0.00	6.62	23.59	0.00	23.59	0.00	1.69	0.09	0.00	1.79	0.00	97.00	0.00	0.	0.00
22	26.100	33.60	0.00	0.00	0.00	6.61	23.60	0.00	23.60	0.00	1.70	0.09	0.00	1.79	0.00	96.86	0.00	0.	0.00
23	26.000	33.63	0.00	0.00	0.00	6.61	23.60	0.00	23.60	0.00	1.70	0.09	0.00	1.79	0.00	96.71	0.00	0.	0.00
24	25.900	33.65	0.00	0.00	0.00	6.60	23.60	0.00	23.60	0.00	1.70	0.09	0.00	1.80	0.00	96.57	0.00	0.	0.00
25	25.800	33.67	0.00	0.00	0.00	6.59	23.60	0.00	23.60	0.00	1.71	0.09	0.00	1.80	0.00	96.43	0.00	0.	0.00
26	25.700	33.69	0.00	0.00	0.00	6.58	23.60	0.00	23.60	0.00	1.71	0.09	0.00	1.81	0.00	96.29	0.00	0.	0.00
27	25.600	33.72	0.00	0.00	0.00	6.57	23.60	0.00	23.60	0.00	1.72	0.09	0.00	1.81	0.00	96.14	0.00	0.	0.00
28	25.500	33.74	0.00	0.00	0.00	6.56	23.60	0.00	23.60	0.00	1.72	0.09	0.00	1.82	0.00	96.00	0.00	0.	0.00
29	25.400	33.76	0.00	0.00	0.00	6.55	23.60	0.00	23.60	0.00	1.73	0.09	0.00	1.82	0.00	95.86	0.00	0.	0.00
30	25.300	33.79	0.00	0.00	0.00	6.54	23.60	0.00	23.60	0.00	1.73	0.09	0.00	1.82	0.00	95.71	0.00	0.	0.00
31	25.200	33.81	0.00	0.00	0.00	6.53	23.60	0.00	23.60	0.00	1.74	0.09	0.00	1.83	0.00	95.57	0.00	0.	0.00
32	25.100	33.83	0.00	0.00	0.00	6.52	23.60	0.00	23.60	0.00	1.74	0.09	0.00	1.83	0.00	95.43	0.00	0.	0.00
33	25.000	33.85	0.00	0.00	0.00	6.51	23.60	0.00	23.60	0.00	1.75	0.09	0.00	1.84	0.00	95.29	0.00	0.	0.00
34	24.900	33.88	0.00	0.00	0.00	6.50	23.60	0.00	23.60	0.00	1.75	0.09	0.00	1.84	0.00	95.14	0.00	0.	0.00
35	24.800	33.90	0.00	0.00	0.00	6.49	23.60	0.00	23.60	0.00	1.76	0.09	0.00	1.85	0.00	95.00	0.00	0.	0.00

FINAL REPORT Grassy Lake LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 2 Fourmile Bayou 1 Calibration Simulation for Lake Verret and Grassy Lake 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
36	UPR RCH	51.90000	33.90	0.00	0.00	0.00	6.49	23.60	0.00	23.60	0.00	1.76	0.09	0.00	0.00	95.00	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	AREA m²	AREA m³	PRISM m/s	SURFACE VELO m²/s	X-SECT m/s	TIDAL VELO	TIDAL	DISPRSN	MEAN
36	24.80	24.70	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
37	24.70	24.60	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
38	24.60	24.50	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
39	24.50	24.40	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
40	24.40	24.30	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
41	24.30	24.20	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
42	24.20	24.10	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
43	24.10	24.00	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
44	24.00	23.90	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
45	23.90	23.80	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
46	23.80	23.70	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
47	23.70	23.60	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
48	23.60	23.50	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
49	23.50	23.40	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
50	23.40	23.30	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
51	23.30	23.20	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
52	23.20	23.10	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
53	23.10	23.00	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
54	23.00	22.90	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			
55	22.90	22.80	51.90000	0.0	0.09257	0.01	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.300	0.093			

TOT							0.25				1121360.00	214000.00														
AVG							0.0926			5.24	107.00				560.68											
CUM							1.20																			

********** 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 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
36	24.700	7.08	0.17	0.40	0.00	0.00	0.00	0.00	0.00	7.18	7.18	7.18	0.03	0.00	0.58	0.00	0.00	0.00	8.67	0.00	0.00	0.00	0.00
37	24.600	7.09	0.17	0.40	0.00	0.00	0.00	0.00	0.00	7.15	7.15	7.15	0.03	0.00	0.58	0.00	0.00	0.00	8.34	0.00	0.00	0.00	0.00
38	24.500	7.09	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.13	7.13	7.13	0.03	0.00	0.58	0.00	0.00	0.00	8.02	0.00	0.00	0.00	0.00
39	24.400	7.10	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.11	7.11	7.11	0.03	0.00	0.57	0.00	0.00	0.00	7.69	0.00	0.00	0.00	0.00
40	24.300	7.11	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.09	7.09	7.09	0.03	0.00	0.57	0.00	0.00	0.00	7.37	0.00	0.00	0.00	0.00
41	24.200	7.11	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.06	7.06	7.06	0.03	0.00	0.57	0.00	0.00	0.00	7.05	0.00	0.00	0.00	0.00
42	24.100	7.12	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.04	7.04	7.04	0.03	0.00	0.57	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
43	24.000	7.12	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.02	7.02	7.02	0.03	0.00	0.56	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
44	23.900	7.13	0.17	0.39	0.00	0.00	0.00	0.00	0.00	7.00	7.00	7.00	0.03	0.00	0.56	0.00	0.00	0.00	6.10	0.00	0.00	0.00	0.00
45	23.800	7.14	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.98	6.98	6.98	0.03	0.00	0.56	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00
46	23.700	7.14	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.95	6.95	6.95	0.03	0.00	0.55	0.00	0.00	0.00	5.47	0.00	0.00	0.00	0.00
47	23.600	7.15	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.93	6.93	6.93	0.03	0.00	0.55	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
48	23.500	7.15	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.91	6.91	6.91	0.03	0.00	0.54	0.00	0.00	0.00	4.85	0.00	0.00	0.00	0.00
49	23.400	7.16	0.17	0.39	0.00	0.00	0.00	0.00	0.00	6.89	6.89	6.89	0.03	0.00	0.54	0.00	0.00	0.00	4.54	0.00	0.00	0.00	0.00
50	23.300	7.16	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.87	6.87	6.87	0.03	0.00	0.54	0.00	0.00	0.00	4.23	0.00	0.00	0.00	0.00
51	23.200	7.17	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.85	6.85	6.85	0.03	0.00	0.53	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00
52	23.100	7.18	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.82	6.82	6.82	0.03	0.00	0.53	0.00	0.00	0.00	3.62	0.00	0.00	0.00	0.00
53	23.000	7.18	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.80	6.80	6.80	0.03	0.00	0.53	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00
54	22.900	7.19	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.78	6.78	6.78	0.03	0.00	0.52	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
55	22.800	7.20	0.17	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	6.76	0.03	0.00	0.52	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.13	0.21	0.00	0.00	0.00	0.00	0.00	3.00			0.02	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
36	24.700	33.85	0.00	0.00	0.00	6.46	23.62	0.00	23.62	0.00	1.77	0.09	0.00	1.86	0.00	91.75	0.00	0.	0.00	
37	24.600	33.80	0.00	0.00	0.00	6.43	23.63	0.00	23.63	0.00	1.77	0.09	0.00	1.86	0.00	88.50	0.00	0.	0.00	
38	24.500	33.75	0.00	0.00	0.00	6.39	23.65	0.00	23.65	0.00	1.78	0.09	0.00	1.87	0.00	85.25	0.00	0.	0.00	
39	24.400	33.70	0.00	0.00	0.00	6.35	23.67	0.00	23.67	0.00	1.79	0.09	0.00	1.88	0.00	82.00	0.00	0.	0.00	
40	24.300	33.65	0.00	0.00	0.00	6.31	23.69	0.00	23.69	0.00	1.80	0.09	0.00	1.89	0.00	78.75	0.00	0.	0.00	
41	24.200	33.60	0.00	0.00	0.00	6.27	23.70	0.00	23.70	0.00	1.81	0.09	0.00	1.90	0.00	75.50	0.00	0.	0.00	
42	24.100	33.55	0.00	0.00	0.00	6.22	23.72	0.00	23.72	0.00	1.82	0.09	0.00	1.91	0.00	72.25	0.00	0.	0.00	
43	24.000	33.50	0.00	0.00	0.00	6.16	23.74	0.00	23.74	0.00	1.82	0.09	0.00	1.91	0.00	69.00	0.00	0.	0.00	
44	23.900	33.45	0.00	0.00	0.00	6.11	23.76	0.00	23.76	0.00	1.83	0.09	0.00	1.92	0.00	65.75	0.00	0.	0.00	
45	23.800	33.40	0.00	0.00	0.00	6.05	23.78	0.00	23.78	0.00	1.84	0.09	0.00	1.93	0.00	62.50	0.00	0.	0.00	
46	23.700	33.35	0.00	0.00	0.00	5.98	23.79	0.00	23.79	0.00	1.85	0.09	0.00	1.94	0.00	59.25	0.00	0.	0.00	
47	23.600	33.30	0.00	0.00	0.00	5.91	23.81	0.00	23.81	0.00	1.86	0.09	0.00	1.95	0.00	56.00	0.00	0.	0.00	
48	23.500	33.25	0.00	0.00	0.00	5.84	23.83	0.00	23.83	0.00	1.87	0.09	0.00	1.96	0.00	52.75	0.00	0.	0.00	
49	23.400	33.20	0.00	0.00	0.00	5.77	23.85	0.00	23.85	0.00	1.87	0.09	0.00	1.96	0.00	49.50	0.00	0.	0.00	
50	23.300	33.15	0.00	0.00	0.00	5.69	23.87	0.00	23.87	0.00	1.88	0.09	0.00	1.97	0.00	46.25	0.00	0.	0.00	
51	23.200	33.10	0.00	0.00	0.00	5.61	23.89	0.00	23.89	0.00	1.89	0.09	0.00	1.98	0.00	43.00	0.00	0.	0.00	
52	23.100	33.05	0.00	0.00	0.00	5.53	23.91	0.00	23.91	0.00	1.90	0.09	0.00	1.99	0.00	39.75	0.00	0.	0.00	
53	23.000	33.00	0.00	0.00	0.00	5.44	23.93	0.00	23.93	0.00	1.91	0.09	0.00	2.00	0.00	36.50	0.00	0.	0.00	

54	22.900	32.95	0.00	0.00	0.00	5.35	23.95	0.00	23.95	0.00	1.92	0.09	0.00	2.01	0.00	33.25	0.00	0.	0.00
55	22.800	32.90	0.00	0.00	0.00	5.24	23.98	0.00	23.98	0.00	1.93	0.09	0.00	2.02	0.00	30.00	0.00	0.	0.00

FINAL REPORT Grassy Lake LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 4 Fourmile Bayou 2 Calibration Simulation for Lake Verret and Grassy Lake 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
98	UPR RCH	51.90000	32.90	0.00	0.00	0.00	5.24	23.98	0.00	23.98	0.00	1.93	0.09	0.00	0.00	30.00	0.00	0.00
98	TRIB	8.80000	32.90	0.00	0.00	0.00	1.29	27.28	0.00	27.28	0.00	2.62	0.12	0.00	0.00	30.00	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
98	22.80	22.70	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
99	22.70	22.60	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
100	22.60	22.50	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
101	22.50	22.40	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
102	22.40	22.30	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
103	22.30	22.20	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
104	22.20	22.10	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
105	22.10	22.00	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
106	22.00	21.90	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
107	21.90	21.80	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
108	21.80	21.70	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
109	21.70	21.60	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
110	21.60	21.50	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
111	21.50	21.40	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
112	21.40	21.30	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
113	21.30	21.20	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
114	21.20	21.10	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
115	21.10	21.00	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
116	21.00	20.90	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
117	20.90	20.80	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
118	20.80	20.70	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
119	20.70	20.60	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
120	20.60	20.50	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
121	20.50	20.40	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
122	20.40	20.30	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
123	20.30	20.20	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
124	20.20	20.10	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
125	20.10	20.00	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
126	20.00	19.90	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
127	19.90	19.80	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
128	19.80	19.70	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
129	19.70	19.60	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
130	19.60	19.50	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
131	19.50	19.40	60.70000	0.0	0.15893	0.01	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.159
TOT					0.25			1298562.00	295800.00						
AVG				0.1589			4.39	87.00			381.93				
CUM					1.45										

********** 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	
98	22.700	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	6.76	0.03	0.00	0.50	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
99	22.600	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	6.76	0.03	0.00	0.50	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
100	22.500	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.76	6.76	6.76	0.03	0.00	0.50	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
101	22.400	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.50	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00
102	22.300	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	3.64	0.00	0.00	0.00	0.00
103	22.200	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00
104	22.100	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.01	0.00	0.00	0.00	0.00
105	22.000	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00
106	21.900	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.38	0.00	0.00	0.00	0.00
107	21.800	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.49	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00
108	21.700	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.75	6.75	6.75	0.03	0.00	0.48	0.00	0.00	0.00	4.75	0.00	0.00	0.00	0.00
109	21.600	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00
110	21.500	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
111	21.400	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.31	0.00	0.00	0.00	0.00
112	21.300	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.00
113	21.200	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.68	0.00	0.00	0.00	0.00
114	21.100	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	5.86	0.00	0.00	0.00	0.00
115	21.000	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.48	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
116	20.900	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.74	6.74	6.74	0.03	0.00	0.47	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00
117	20.800	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.42	0.00	0.00	0.00	0.00
118	20.700	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
119	20.600	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
120	20.500	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	6.97	0.00	0.00	0.00	0.00
121	20.400	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.16	0.00	0.00	0.00	0.00
122	20.300	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.34	0.00	0.00	0.00	0.00
123	20.200	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.53	0.00	0.00	0.00	0.00
124	20.100	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.73	6.73	6.73	0.03	0.00	0.47	0.00	0.00	0.00	7.71	0.00	0.00	0.00	0.00
125	20.000	7.20	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.47	0.00	0.00	0.00	7.90	0.00	0.00	0.00	0.00
126	19.900	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.47	0.00	0.00	0.00	8.08	0.00	0.00	0.00	0.00
127	19.800	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.00
128	19.700	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.45	0.00	0.00	0.00	0.00
129	19.600	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.63	0.00	0.00	0.00	0.00
130	19.500	7.21	0.22	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.46	0.00	0.00	0.00	8.82	0.00	0.00	0.00	0.00
131	19.400	7.21	0.21	0.38	0.00	0.00	0.00	0.00	0.00	6.72	6.72	6.72	0.03	0.00	0.47	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.17	0.21	0.00	0.00	0.00	0.00	0.00	3.00			0.02	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 #/100mL	MACRO	COLI	NCM
98	22.700	32.90	0.00	0.00	0.00	4.57	24.50	0.00	24.50	0.00	2.04	0.09	0.00	2.14	0.00	32.06	0.00	0.	0.00
99	22.600	32.89	0.00	0.00	0.00	4.52	24.51	0.00	24.51	0.00	2.05	0.09	0.00	2.14	0.00	34.12	0.00	0.	0.00
100	22.500	32.89	0.00	0.00	0.00	4.46	24.51	0.00	24.51	0.00	2.06	0.09	0.00	2.15	0.00	36.18	0.00	0.	0.00
101	22.400	32.89	0.00	0.00	0.00	4.41	24.52	0.00	24.52	0.00	2.07	0.09	0.00	2.16	0.00	38.24	0.00	0.	0.00
102	22.300	32.89	0.00	0.00	0.00	4.36	24.52	0.00	24.52	0.00	2.07	0.09	0.00	2.17	0.00	40.29	0.00	0.	0.00
103	22.200	32.88	0.00	0.00	0.00	4.31	24.53	0.00	24.53	0.00	2.08	0.09	0.00	2.18	0.00	42.35	0.00	0.	0.00
104	22.100	32.88	0.00	0.00	0.00	4.27	24.53	0.00	24.53	0.00	2.09	0.10	0.00	2.19	0.00	44.41	0.00	0.	0.00

105	22.000	32.88	0.00	0.00	0.00	4.22	24.54	0.00	24.54	0.00	2.10	0.10	0.00	2.19	0.00	46.47	0.00	0.	0.00
106	21.900	32.87	0.00	0.00	0.00	4.18	24.54	0.00	24.54	0.00	2.11	0.10	0.00	2.20	0.00	48.53	0.00	0.	0.00
107	21.800	32.87	0.00	0.00	0.00	4.14	24.55	0.00	24.55	0.00	2.11	0.10	0.00	2.21	0.00	50.59	0.00	0.	0.00
108	21.700	32.87	0.00	0.00	0.00	4.10	24.55	0.00	24.55	0.00	2.12	0.10	0.00	2.22	0.00	52.65	0.00	0.	0.00
109	21.600	32.86	0.00	0.00	0.00	4.06	24.56	0.00	24.56	0.00	2.13	0.10	0.00	2.23	0.00	54.71	0.00	0.	0.00
110	21.500	32.86	0.00	0.00	0.00	4.02	24.56	0.00	24.56	0.00	2.14	0.10	0.00	2.23	0.00	56.76	0.00	0.	0.00
111	21.400	32.86	0.00	0.00	0.00	3.98	24.57	0.00	24.57	0.00	2.15	0.10	0.00	2.24	0.00	58.82	0.00	0.	0.00
112	21.300	32.86	0.00	0.00	0.00	3.95	24.57	0.00	24.57	0.00	2.15	0.10	0.00	2.25	0.00	60.88	0.00	0.	0.00
113	21.200	32.85	0.00	0.00	0.00	3.91	24.58	0.00	24.58	0.00	2.16	0.10	0.00	2.26	0.00	62.94	0.00	0.	0.00
114	21.100	32.85	0.00	0.00	0.00	3.88	24.58	0.00	24.58	0.00	2.17	0.10	0.00	2.27	0.00	65.00	0.00	0.	0.00
115	21.000	32.85	0.00	0.00	0.00	3.85	24.59	0.00	24.59	0.00	2.18	0.10	0.00	2.27	0.00	67.06	0.00	0.	0.00
116	20.900	32.84	0.00	0.00	0.00	3.82	24.59	0.00	24.59	0.00	2.19	0.10	0.00	2.28	0.00	69.12	0.00	0.	0.00
117	20.800	32.84	0.00	0.00	0.00	3.79	24.60	0.00	24.60	0.00	2.19	0.10	0.00	2.29	0.00	71.18	0.00	0.	0.00
118	20.700	32.84	0.00	0.00	0.00	3.76	24.60	0.00	24.60	0.00	2.20	0.10	0.00	2.30	0.00	73.24	0.00	0.	0.00
119	20.600	32.84	0.00	0.00	0.00	3.74	24.61	0.00	24.61	0.00	2.21	0.10	0.00	2.31	0.00	75.29	0.00	0.	0.00
120	20.500	32.83	0.00	0.00	0.00	3.71	24.61	0.00	24.61	0.00	2.22	0.10	0.00	2.31	0.00	77.35	0.00	0.	0.00
121	20.400	32.83	0.00	0.00	0.00	3.69	24.62	0.00	24.62	0.00	2.23	0.10	0.00	2.32	0.00	79.41	0.00	0.	0.00
122	20.300	32.83	0.00	0.00	0.00	3.67	24.62	0.00	24.62	0.00	2.23	0.10	0.00	2.33	0.00	81.47	0.00	0.	0.00
123	20.200	32.82	0.00	0.00	0.00	3.65	24.63	0.00	24.63	0.00	2.24	0.10	0.00	2.34	0.00	83.53	0.00	0.	0.00
124	20.100	32.82	0.00	0.00	0.00	3.63	24.63	0.00	24.63	0.00	2.25	0.10	0.00	2.35	0.00	85.59	0.00	0.	0.00
125	20.000	32.82	0.00	0.00	0.00	3.61	24.64	0.00	24.64	0.00	2.26	0.10	0.00	2.35	0.00	87.65	0.00	0.	0.00
126	19.900	32.81	0.00	0.00	0.00	3.60	24.64	0.00	24.64	0.00	2.27	0.10	0.00	2.36	0.00	89.71	0.00	0.	0.00
127	19.800	32.81	0.00	0.00	0.00	3.58	24.65	0.00	24.65	0.00	2.27	0.10	0.00	2.37	0.00	91.76	0.00	0.	0.00
128	19.700	32.81	0.00	0.00	0.00	3.57	24.65	0.00	24.65	0.00	2.28	0.10	0.00	2.38	0.00	93.82	0.00	0.	0.00
129	19.600	32.81	0.00	0.00	0.00	3.56	24.66	0.00	24.66	0.00	2.29	0.10	0.00	2.39	0.00	95.88	0.00	0.	0.00
130	19.500	32.80	0.00	0.00	0.00	3.55	24.66	0.00	24.66	0.00	2.30	0.10	0.00	2.40	0.00	97.94	0.00	0.	0.00
131	19.400	32.80	0.00	0.00	0.00	3.65	24.49	0.00	24.49	0.00	2.31	0.10	0.00	2.41	0.00	100.00	0.00	0.	0.00

FINAL REPORT Grassy Lake LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 5 Lake Verret 1 Calibration Simulation for Lake Verret and Grassy Lake 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
132	UPR RCH	60.70000	32.80	0.00	0.00	0.00	3.65	24.49	0.00	24.49	0.00	2.31	0.10	0.00	0.00	100.00	0.00	0.00
132	WSTLD	30.10000	33.10	0.00	0.00	0.00	7.60	16.80	0.00	16.80	0.00	2.40	0.10	0.20	0.00	0.00	0.00	0.00
140	WSTLD	0.00157	0.00	0.00	0.00	0.00	5.00	69.00	0.00	69.00	0.00	2.00	1.50	2.00	0.00	0.00	0.00	0.00
149	WSTLD	0.00044	0.00	0.00	0.00	0.00	5.00	69.00	0.00	69.00	0.00	2.00	1.50	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
132	19.40	19.30	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
133	19.30	19.20	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
134	19.20	19.10	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
135	19.10	19.00	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
136	19.00	18.90	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
137	18.90	18.80	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
138	18.80	18.70	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
139	18.70	18.60	90.80000	33.1	0.03581	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
140	18.60	18.50	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
141	18.50	18.40	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036

142	18.40	18.30	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
143	18.30	18.20	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
144	18.20	18.10	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
145	18.10	18.00	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
146	18.00	17.90	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
147	17.90	17.80	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
148	17.80	17.70	90.80157	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
149	17.70	17.60	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
150	17.60	17.50	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
151	17.50	17.40	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
152	17.40	17.30	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
153	17.30	17.20	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
154	17.20	17.10	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
155	17.10	17.00	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
156	17.00	16.90	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
157	16.90	16.80	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
158	16.80	16.70	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
159	16.70	16.60	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
160	16.60	16.50	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
161	16.50	16.40	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
162	16.40	16.30	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
163	16.30	16.20	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
164	16.20	16.10	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
165	16.10	16.00	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
166	16.00	15.90	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
167	15.90	15.80	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
168	15.80	15.70	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
169	15.70	15.60	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
170	15.60	15.50	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
171	15.50	15.40	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
172	15.40	15.30	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
173	15.30	15.20	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
174	15.20	15.10	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
175	15.10	15.00	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
176	15.00	14.90	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
177	14.90	14.80	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
178	14.80	14.70	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
179	14.70	14.60	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
180	14.60	14.50	90.80202	33.2	0.03582	0.03	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.400	0.036
TOT						1.58		12422872.00	9270800.00						
AVG					0.0358		1.34	1892.00			2535.28				
CUM						3.03									

********** 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	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 *	ORGN SETT 1/da	ORGN DECAY *	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	NCM
132	19.300	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00	
133	19.200	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00	
134	19.100	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00	
135	19.000	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.36	3.36	3.36	0.03	0.00	0.51	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00	

136	18.900	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
137	18.800	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
138	18.700	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
139	18.600	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
140	18.500	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
141	18.400	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
142	18.300	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
143	18.200	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
144	18.100	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
145	18.000	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
146	17.900	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.35	3.35	3.35	0.03	0.00	0.51	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
147	17.800	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00
148	17.700	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.13	0.00	0.00	0.00	0.00
149	17.600	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.14	0.00	0.00	0.00	0.00
150	17.500	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.14	0.00	0.00	0.00	0.00
151	17.400	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.15	0.00	0.00	0.00	0.00
152	17.300	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.16	0.00	0.00	0.00	0.00
153	17.200	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.17	0.00	0.00	0.00	0.00
154	17.100	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.17	0.00	0.00	0.00	0.00
155	17.000	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.18	0.00	0.00	0.00	0.00
156	16.900	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.51	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
157	16.800	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.50	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
158	16.700	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.34	3.34	3.34	0.03	0.00	0.50	0.00	0.00	0.00	9.20	0.00	0.00	0.00	0.00
159	16.600	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.21	0.00	0.00	0.00	0.00
160	16.500	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00
161	16.400	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00
162	16.300	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.23	0.00	0.00	0.00	0.00
163	16.200	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.24	0.00	0.00	0.00	0.00
164	16.100	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.25	0.00	0.00	0.00	0.00
165	16.000	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.25	0.00	0.00	0.00	0.00
166	15.900	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.50	0.00	0.00	0.00	9.26	0.00	0.00	0.00	0.00
167	15.800	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.27	0.00	0.00	0.00	0.00
168	15.700	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
169	15.600	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
170	15.500	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	0.03	0.00	0.49	0.00	0.00	0.00	9.29	0.00	0.00	0.00	0.00
171	15.400	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.30	0.00	0.00	0.00	0.00
172	15.300	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.31	0.00	0.00	0.00	0.00
173	15.200	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.31	0.00	0.00	0.00	0.00
174	15.100	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.49	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00
175	15.000	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.33	0.00	0.00	0.00	0.00
176	14.900	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.34	0.00	0.00	0.00	0.00
177	14.800	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.34	0.00	0.00	0.00	0.00
178	14.700	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.35	0.00	0.00	0.00	0.00
179	14.600	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.48	0.00	0.00	0.00	9.36	0.00	0.00	0.00	0.00
180	14.500	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.47	0.00	0.00	0.00	9.36	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.56	0.16	0.00	0.00	0.00	0.00	0.00	1.50			0.02	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 µg/L	TOTN g/m³	PHOS #/100mL	CHL A	MACRO	COLI	NCM

132	19.300	32.80	0.00	0.00	0.00	4.94	22.46	0.00	22.46	0.00	2.34	0.10	0.00	2.44	0.00	100.10	0.00	0.	0.00
133	19.200	32.79	0.00	0.00	0.00	4.98	22.82	0.00	22.82	0.00	2.35	0.10	0.00	2.45	0.00	100.20	0.00	0.	0.00
134	19.100	32.79	0.00	0.00	0.00	5.01	23.18	0.00	23.18	0.00	2.36	0.10	0.00	2.45	0.00	100.31	0.00	0.	0.00
135	19.000	32.78	0.00	0.00	0.00	5.05	23.53	0.00	23.53	0.00	2.36	0.10	0.00	2.46	0.00	100.41	0.00	0.	0.00
136	18.900	32.78	0.00	0.00	0.00	5.08	23.88	0.00	23.88	0.00	2.37	0.10	0.00	2.47	0.00	100.51	0.00	0.	0.00
137	18.800	32.78	0.00	0.00	0.00	5.11	24.23	0.00	24.23	0.00	2.37	0.10	0.00	2.47	0.00	100.61	0.00	0.	0.00
138	18.700	32.77	0.00	0.00	0.00	5.13	24.57	0.00	24.57	0.00	2.38	0.10	0.00	2.48	0.00	100.71	0.00	0.	0.00
139	18.600	32.77	0.00	0.00	0.00	5.15	24.91	0.00	24.91	0.00	2.38	0.10	0.00	2.49	0.00	100.82	0.00	0.	0.00
140	18.500	32.76	0.00	0.00	0.00	5.16	25.25	0.00	25.25	0.00	2.39	0.10	0.00	2.49	0.00	100.92	0.00	0.	0.00
141	18.400	32.76	0.00	0.00	0.00	5.18	25.58	0.00	25.58	0.00	2.40	0.10	0.00	2.50	0.00	101.02	0.00	0.	0.00
142	18.300	32.76	0.00	0.00	0.00	5.19	25.92	0.00	25.92	0.00	2.40	0.10	0.00	2.50	0.00	101.12	0.00	0.	0.00
143	18.200	32.75	0.00	0.00	0.00	5.20	26.24	0.00	26.24	0.00	2.41	0.10	0.00	2.51	0.00	101.22	0.00	0.	0.00
144	18.100	32.75	0.00	0.00	0.00	5.20	26.57	0.00	26.57	0.00	2.41	0.10	0.00	2.52	0.00	101.33	0.00	0.	0.00
145	18.000	32.74	0.00	0.00	0.00	5.20	26.89	0.00	26.89	0.00	2.42	0.10	0.00	2.52	0.00	101.43	0.00	0.	0.00
146	17.900	32.74	0.00	0.00	0.00	5.20	27.21	0.00	27.21	0.00	2.43	0.10	0.00	2.53	0.00	101.53	0.00	0.	0.00
147	17.800	32.73	0.00	0.00	0.00	5.20	27.53	0.00	27.53	0.00	2.43	0.10	0.00	2.53	0.00	101.63	0.00	0.	0.00
148	17.700	32.73	0.00	0.00	0.00	5.19	27.84	0.00	27.84	0.00	2.44	0.10	0.00	2.54	0.00	101.73	0.00	0.	0.00
149	17.600	32.73	0.00	0.00	0.00	5.19	28.15	0.00	28.15	0.00	2.44	0.10	0.00	2.55	0.00	101.84	0.00	0.	0.00
150	17.500	32.72	0.00	0.00	0.00	5.18	28.46	0.00	28.46	0.00	2.45	0.10	0.00	2.55	0.00	101.94	0.00	0.	0.00
151	17.400	32.72	0.00	0.00	0.00	5.16	28.77	0.00	28.77	0.00	2.45	0.10	0.00	2.56	0.00	102.04	0.00	0.	0.00
152	17.300	32.71	0.00	0.00	0.00	5.15	29.07	0.00	29.07	0.00	2.46	0.11	0.00	2.56	0.00	102.14	0.00	0.	0.00
153	17.200	32.71	0.00	0.00	0.00	5.13	29.37	0.00	29.37	0.00	2.47	0.11	0.00	2.57	0.00	102.24	0.00	0.	0.00
154	17.100	32.71	0.00	0.00	0.00	5.11	29.67	0.00	29.67	0.00	2.47	0.11	0.00	2.58	0.00	102.35	0.00	0.	0.00
155	17.000	32.70	0.00	0.00	0.00	5.09	29.96	0.00	29.96	0.00	2.48	0.11	0.00	2.58	0.00	102.45	0.00	0.	0.00
156	16.900	32.70	0.00	0.00	0.00	5.07	30.25	0.00	30.25	0.00	2.48	0.11	0.00	2.59	0.00	102.55	0.00	0.	0.00
157	16.800	32.69	0.00	0.00	0.00	5.05	30.54	0.00	30.54	0.00	2.49	0.11	0.00	2.60	0.00	102.65	0.00	0.	0.00
158	16.700	32.69	0.00	0.00	0.00	5.02	30.83	0.00	30.83	0.00	2.49	0.11	0.00	2.60	0.00	102.76	0.00	0.	0.00
159	16.600	32.69	0.00	0.00	0.00	4.99	31.11	0.00	31.11	0.00	2.50	0.11	0.00	2.61	0.00	102.86	0.00	0.	0.00
160	16.500	32.68	0.00	0.00	0.00	4.96	31.39	0.00	31.39	0.00	2.51	0.11	0.00	2.61	0.00	102.96	0.00	0.	0.00
161	16.400	32.68	0.00	0.00	0.00	4.93	31.67	0.00	31.67	0.00	2.51	0.11	0.00	2.62	0.00	103.06	0.00	0.	0.00
162	16.300	32.67	0.00	0.00	0.00	4.90	31.95	0.00	31.95	0.00	2.52	0.11	0.00	2.63	0.00	103.16	0.00	0.	0.00
163	16.200	32.67	0.00	0.00	0.00	4.86	32.22	0.00	32.22	0.00	2.52	0.11	0.00	2.63	0.00	103.27	0.00	0.	0.00
164	16.100	32.67	0.00	0.00	0.00	4.83	32.49	0.00	32.49	0.00	2.53	0.11	0.00	2.64	0.00	103.37	0.00	0.	0.00
165	16.000	32.66	0.00	0.00	0.00	4.79	32.76	0.00	32.76	0.00	2.53	0.11	0.00	2.64	0.00	103.47	0.00	0.	0.00
166	15.900	32.66	0.00	0.00	0.00	4.75	33.03	0.00	33.03	0.00	2.54	0.11	0.00	2.65	0.00	103.57	0.00	0.	0.00
167	15.800	32.65	0.00	0.00	0.00	4.72	33.29	0.00	33.29	0.00	2.55	0.11	0.00	2.66	0.00	103.67	0.00	0.	0.00
168	15.700	32.65	0.00	0.00	0.00	4.68	33.55	0.00	33.55	0.00	2.55	0.11	0.00	2.66	0.00	103.78	0.00	0.	0.00
169	15.600	32.64	0.00	0.00	0.00	4.63	33.81	0.00	33.81	0.00	2.56	0.11	0.00	2.67	0.00	103.88	0.00	0.	0.00
170	15.500	32.64	0.00	0.00	0.00	4.59	34.07	0.00	34.07	0.00	2.56	0.11	0.00	2.67	0.00	103.98	0.00	0.	0.00
171	15.400	32.64	0.00	0.00	0.00	4.55	34.33	0.00	34.33	0.00	2.57	0.11	0.00	2.68	0.00	104.08	0.00	0.	0.00
172	15.300	32.63	0.00	0.00	0.00	4.50	34.58	0.00	34.58	0.00	2.57	0.11	0.00	2.69	0.00	104.18	0.00	0.	0.00
173	15.200	32.63	0.00	0.00	0.00	4.46	34.83	0.00	34.83	0.00	2.58	0.11	0.00	2.69	0.00	104.29	0.00	0.	0.00
174	15.100	32.62	0.00	0.00	0.00	4.41	35.08	0.00	35.08	0.00	2.59	0.11	0.00	2.70	0.00	104.39	0.00	0.	0.00
175	15.000	32.62	0.00	0.00	0.00	4.36	35.32	0.00	35.32	0.00	2.59	0.11	0.00	2.70	0.00	104.49	0.00	0.	0.00
176	14.900	32.62	0.00	0.00	0.00	4.32	35.57	0.00	35.57	0.00	2.60	0.11	0.00	2.71	0.00	104.59	0.00	0.	0.00
177	14.800	32.61	0.00	0.00	0.00	4.27	35.81	0.00	35.81	0.00	2.60	0.11	0.00	2.72	0.00	104.69	0.00	0.	0.00
178	14.700	32.61	0.00	0.00	0.00	4.22	36.05	0.00	36.05	0.00	2.61	0.11	0.00	2.72	0.00	104.80	0.00	0.	0.00
179	14.600	32.60	0.00	0.00	0.00	4.16	36.26	0.00	36.26	0.00	2.61	0.11	0.00	2.73	0.00	104.90	0.00	0.	0.00
180	14.500	32.60	0.00	0.00	0.00	4.09	36.31	0.00	36.31	0.00	2.62	0.12	0.00	2.73	0.00	105.00	0.00	0.	0.00

REACH NO. 6 Lake Verret 2 Calibration Simulation for Lake Verret and Grassy Lake 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
181	UPR RCH	90.80202	32.60	0.00	0.00	0.00	4.09	36.31	0.00	36.31	0.00	2.62	0.12	0.00	0.00	105.00	0.00	0.00
208	WSTLD	0.00125	0.00	0.00	0.00	0.00	5.00	46.00	0.00	46.00	0.00	2.00	1.50	2.00	0.00	0.00	0.00	0.00
264	WSTLD	0.00922	0.00	0.00	0.00	0.00	5.00	27.20	0.00	27.20	0.00	2.00	5.72	2.00	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	PRISM m³	VELO m/s	TIDAL VELO m²/s	TIDAL m/s	DISPRSN	MEAN
181	14.50	14.40	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
182	14.40	14.30	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
183	14.30	14.20	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
184	14.20	14.10	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
185	14.10	14.00	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
186	14.00	13.90	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
187	13.90	13.80	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
188	13.80	13.70	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
189	13.70	13.60	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
190	13.60	13.50	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
191	13.50	13.40	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
192	13.40	13.30	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
193	13.30	13.20	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
194	13.20	13.10	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
195	13.10	13.00	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
196	13.00	12.90	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
197	12.90	12.80	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
198	12.80	12.70	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
199	12.70	12.60	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
200	12.60	12.50	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
201	12.50	12.40	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
202	12.40	12.30	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
203	12.30	12.20	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
204	12.20	12.10	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
205	12.10	12.00	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
206	12.00	11.90	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
207	11.90	11.80	90.80202	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
208	11.80	11.70	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
209	11.70	11.60	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
210	11.60	11.50	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
211	11.50	11.40	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
212	11.40	11.30	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
213	11.30	11.20	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
214	11.20	11.10	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
215	11.10	11.00	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
216	11.00	10.90	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
217	10.90	10.80	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
218	10.80	10.70	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			
219	10.70	10.60	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010			

220	10.60	10.50	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
221	10.50	10.40	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
222	10.40	10.30	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
223	10.30	10.20	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
224	10.20	10.10	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
225	10.10	10.00	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
226	10.00	9.90	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
227	9.90	9.80	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
228	9.80	9.70	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
229	9.70	9.60	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
230	9.60	9.50	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
231	9.50	9.40	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
232	9.40	9.30	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
233	9.30	9.20	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
234	9.20	9.10	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
235	9.10	9.00	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
236	9.00	8.90	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
237	8.90	8.80	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
238	8.80	8.70	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
239	8.70	8.60	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
240	8.60	8.50	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
241	8.50	8.40	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
242	8.40	8.30	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
243	8.30	8.20	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
244	8.20	8.10	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
245	8.10	8.00	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
246	8.00	7.90	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
247	7.90	7.80	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
248	7.80	7.70	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
249	7.70	7.60	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
250	7.60	7.50	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
251	7.50	7.40	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
252	7.40	7.30	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
253	7.30	7.20	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
254	7.20	7.10	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
255	7.10	7.00	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
256	7.00	6.90	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
257	6.90	6.80	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
258	6.80	6.70	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
259	6.70	6.60	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
260	6.60	6.50	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
261	6.50	6.40	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
262	6.40	6.30	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
263	6.30	6.20	90.80327	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
264	6.20	6.10	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
265	6.10	6.00	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
266	6.00	5.90	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
267	5.90	5.80	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
268	5.80	5.70	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
269	5.70	5.60	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010

270	5.60	5.50	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
271	5.50	5.40	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
272	5.40	5.30	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
273	5.30	5.20	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
274	5.20	5.10	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
275	5.10	5.00	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
276	5.00	4.90	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
277	4.90	4.80	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
278	4.80	4.70	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
279	4.70	4.60	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
280	4.60	4.50	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
281	4.50	4.40	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
282	4.40	4.30	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
283	4.30	4.20	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
284	4.20	4.10	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
285	4.10	4.00	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
286	4.00	3.90	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
287	3.90	3.80	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
288	3.80	3.70	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
289	3.70	3.60	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
290	3.60	3.50	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
291	3.50	3.40	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
292	3.40	3.30	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
293	3.30	3.20	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
294	3.20	3.10	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
295	3.10	3.00	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
296	3.00	2.90	90.81248	33.2	0.01042	0.11	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.400	0.010
TOT					12.89			**********47467200.00							
AVG					0.0104		2.13	4092.00			8715.95				
CUM					15.92										

********** 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		
181	14.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.47	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00	
182	14.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.47	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00	
183	14.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.24	0.00	0.00	0.00	0.00	
184	14.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00	
185	14.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.15	0.00	0.00	0.00	0.00	
186	13.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00	
187	13.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00	
188	13.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00	
189	13.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.46	0.00	0.00	0.00	8.98	0.00	0.00	0.00	0.00	
190	13.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.94	0.00	0.00	0.00	0.00	
191	13.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.90	0.00	0.00	0.00	0.00	
192	13.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.85	0.00	0.00	0.00	0.00	
193	13.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.81	0.00	0.00	0.00	0.00	
194	13.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.77	0.00	0.00	0.00	0.00	
195	13.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.46	0.00	0.00	0.00	8.73	0.00	0.00	0.00	0.00	
196	12.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.68	0.00	0.00	0.00	0.00	

197	12.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.64	0.00	0.00	0.00	0.00
198	12.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.60	0.00	0.00	0.00	0.00
199	12.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.47	0.00	0.00	0.00	8.55	0.00	0.00	0.00	0.00
200	12.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.51	0.00	0.00	0.00	0.00
201	12.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.47	0.00	0.00	0.00	0.00
202	12.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.43	0.00	0.00	0.00	0.00
203	12.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.38	0.00	0.00	0.00	0.00
204	12.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.48	0.00	0.00	0.00	8.34	0.00	0.00	0.00	0.00
205	12.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.30	0.00	0.00	0.00	0.00
206	11.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.00
207	11.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.21	0.00	0.00	0.00	0.00
208	11.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.49	0.00	0.00	0.00	8.17	0.00	0.00	0.00	0.00
209	11.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.13	0.00	0.00	0.00	0.00
210	11.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.09	0.00	0.00	0.00	0.00
211	11.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.04	0.00	0.00	0.00	0.00
212	11.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
213	11.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.50	0.00	0.00	0.00	7.96	0.00	0.00	0.00	0.00
214	11.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00
215	11.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.87	0.00	0.00	0.00	0.00
216	10.900	7.23	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
217	10.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.79	0.00	0.00	0.00	0.00
218	10.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.75	0.00	0.00	0.00	0.00
219	10.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.70	0.00	0.00	0.00	0.00
220	10.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.51	0.00	0.00	0.00	7.66	0.00	0.00	0.00	0.00
221	10.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.62	0.00	0.00	0.00	0.00
222	10.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.58	0.00	0.00	0.00	0.00
223	10.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.53	0.00	0.00	0.00	0.00
224	10.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.49	0.00	0.00	0.00	0.00
225	10.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00
226	9.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.41	0.00	0.00	0.00	0.00
227	9.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.36	0.00	0.00	0.00	0.00
228	9.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.32	0.00	0.00	0.00	0.00
229	9.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.28	0.00	0.00	0.00	0.00
230	9.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.52	0.00	0.00	0.00	7.24	0.00	0.00	0.00	0.00
231	9.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.19	0.00	0.00	0.00	0.00
232	9.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.15	0.00	0.00	0.00	0.00
233	9.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.11	0.00	0.00	0.00	0.00
234	9.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.07	0.00	0.00	0.00	0.00
235	9.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	7.02	0.00	0.00	0.00	0.00
236	8.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.98	0.00	0.00	0.00	0.00
237	8.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.94	0.00	0.00	0.00	0.00
238	8.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.90	0.00	0.00	0.00	0.00
239	8.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
240	8.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
241	8.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
242	8.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
243	8.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
244	8.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
245	8.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
246	7.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00

247	7.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
248	7.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
249	7.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.43	0.00	0.00	0.00	0.00
250	7.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.39	0.00	0.00	0.00	0.00
251	7.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.34	0.00	0.00	0.00	0.00
252	7.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00
253	7.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00
254	7.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.22	0.00	0.00	0.00	0.00
255	7.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.17	0.00	0.00	0.00	0.00
256	6.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.13	0.00	0.00	0.00	0.00
257	6.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.09	0.00	0.00	0.00	0.00
258	6.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
259	6.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	6.01	0.00	0.00	0.00	0.00
260	6.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.96	0.00	0.00	0.00	0.00
261	6.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00
262	6.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.88	0.00	0.00	0.00	0.00
263	6.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.84	0.00	0.00	0.00	0.00
264	6.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.79	0.00	0.00	0.00	0.00
265	6.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00
266	5.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.71	0.00	0.00	0.00	0.00
267	5.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.67	0.00	0.00	0.00	0.00
268	5.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.62	0.00	0.00	0.00	0.00
269	5.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.58	0.00	0.00	0.00	0.00
270	5.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.54	0.00	0.00	0.00	0.00
271	5.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00
272	5.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.45	0.00	0.00	0.00	0.00
273	5.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.41	0.00	0.00	0.00	0.00
274	5.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.37	0.00	0.00	0.00	0.00
275	5.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.33	0.00	0.00	0.00	0.00
276	4.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.28	0.00	0.00	0.00	0.00
277	4.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.00
278	4.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.20	0.00	0.00	0.00	0.00
279	4.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
280	4.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
281	4.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00
282	4.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00
283	4.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00
284	4.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.95	0.00	0.00	0.00	0.00
285	4.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00
286	3.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.86	0.00	0.00	0.00	0.00
287	3.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.82	0.00	0.00	0.00	0.00
288	3.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.78	0.00	0.00	0.00	0.00
289	3.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.73	0.00	0.00	0.00	0.00
290	3.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.69	0.00	0.00	0.00	0.00
291	3.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.65	0.00	0.00	0.00	0.00
292	3.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.61	0.00	0.00	0.00	0.00
293	3.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.51	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00
294	3.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.50	0.00	0.00	0.00	4.52	0.00	0.00	0.00	0.00
295	3.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.50	0.00	0.00	0.00	4.48	0.00	0.00	0.00	0.00
296	2.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.50	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.35 0.16 0.00 0.00 0.00 0.00 0.00 1.50 0.02 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
181	14.400	32.60	0.00	0.00	0.00	3.96	35.56	0.00	35.56	0.00	2.61	0.12	0.00	2.73	0.00	104.53	0.00	0.	0.00
182	14.300	32.60	0.00	0.00	0.00	3.85	34.90	0.00	34.90	0.00	2.60	0.12	0.00	2.72	0.00	104.05	0.00	0.	0.00
183	14.200	32.60	0.00	0.00	0.00	3.77	34.26	0.00	34.26	0.00	2.59	0.12	0.00	2.71	0.00	103.58	0.00	0.	0.00
184	14.100	32.60	0.00	0.00	0.00	3.71	33.64	0.00	33.64	0.00	2.59	0.12	0.00	2.71	0.00	103.10	0.00	0.	0.00
185	14.000	32.60	0.00	0.00	0.00	3.66	33.04	0.00	33.04	0.00	2.58	0.12	0.00	2.70	0.00	102.63	0.00	0.	0.00
186	13.900	32.59	0.00	0.00	0.00	3.62	32.45	0.00	32.45	0.00	2.57	0.12	0.00	2.69	0.00	102.16	0.00	0.	0.00
187	13.800	32.59	0.00	0.00	0.00	3.60	31.89	0.00	31.89	0.00	2.56	0.12	0.00	2.69	0.00	101.68	0.00	0.	0.00
188	13.700	32.59	0.00	0.00	0.00	3.59	31.34	0.00	31.34	0.00	2.56	0.12	0.00	2.68	0.00	101.21	0.00	0.	0.00
189	13.600	32.59	0.00	0.00	0.00	3.60	30.81	0.00	30.81	0.00	2.55	0.13	0.00	2.68	0.00	100.73	0.00	0.	0.00
190	13.500	32.59	0.00	0.00	0.00	3.61	30.30	0.00	30.30	0.00	2.54	0.13	0.00	2.67	0.00	100.26	0.00	0.	0.00
191	13.400	32.59	0.00	0.00	0.00	3.63	29.80	0.00	29.80	0.00	2.54	0.13	0.00	2.66	0.00	99.78	0.00	0.	0.00
192	13.300	32.59	0.00	0.00	0.00	3.67	29.31	0.00	29.31	0.00	2.53	0.13	0.00	2.66	0.00	99.31	0.00	0.	0.00
193	13.200	32.59	0.00	0.00	0.00	3.71	28.85	0.00	28.85	0.00	2.52	0.13	0.00	2.65	0.00	98.84	0.00	0.	0.00
194	13.100	32.59	0.00	0.00	0.00	3.75	28.39	0.00	28.39	0.00	2.51	0.13	0.00	2.64	0.00	98.36	0.00	0.	0.00
195	13.000	32.59	0.00	0.00	0.00	3.81	27.95	0.00	27.95	0.00	2.51	0.13	0.00	2.64	0.00	97.89	0.00	0.	0.00
196	12.900	32.59	0.00	0.00	0.00	3.86	27.52	0.00	27.52	0.00	2.50	0.13	0.00	2.63	0.00	97.41	0.00	0.	0.00
197	12.800	32.59	0.00	0.00	0.00	3.93	27.11	0.00	27.11	0.00	2.49	0.13	0.00	2.62	0.00	96.94	0.00	0.	0.00
198	12.700	32.58	0.00	0.00	0.00	3.99	26.71	0.00	26.71	0.00	2.49	0.13	0.00	2.62	0.00	96.47	0.00	0.	0.00
199	12.600	32.58	0.00	0.00	0.00	4.06	26.32	0.00	26.32	0.00	2.48	0.13	0.00	2.61	0.00	95.99	0.00	0.	0.00
200	12.500	32.58	0.00	0.00	0.00	4.14	25.94	0.00	25.94	0.00	2.47	0.13	0.00	2.60	0.00	95.52	0.00	0.	0.00
201	12.400	32.58	0.00	0.00	0.00	4.22	25.57	0.00	25.57	0.00	2.47	0.13	0.00	2.60	0.00	95.04	0.00	0.	0.00
202	12.300	32.58	0.00	0.00	0.00	4.30	25.22	0.00	25.22	0.00	2.46	0.13	0.00	2.59	0.00	94.57	0.00	0.	0.00
203	12.200	32.58	0.00	0.00	0.00	4.38	24.87	0.00	24.87	0.00	2.45	0.13	0.00	2.58	0.00	94.09	0.00	0.	0.00
204	12.100	32.58	0.00	0.00	0.00	4.46	24.54	0.00	24.54	0.00	2.44	0.13	0.00	2.57	0.00	93.62	0.00	0.	0.00
205	12.000	32.58	0.00	0.00	0.00	4.55	24.21	0.00	24.21	0.00	2.44	0.13	0.00	2.57	0.00	93.15	0.00	0.	0.00
206	11.900	32.58	0.00	0.00	0.00	4.63	23.90	0.00	23.90	0.00	2.43	0.13	0.00	2.56	0.00	92.67	0.00	0.	0.00
207	11.800	32.58	0.00	0.00	0.00	4.72	23.60	0.00	23.60	0.00	2.42	0.13	0.00	2.55	0.00	92.20	0.00	0.	0.00
208	11.700	32.58	0.00	0.00	0.00	4.80	23.30	0.00	23.30	0.00	2.42	0.13	0.00	2.55	0.00	91.72	0.00	0.	0.00
209	11.600	32.58	0.00	0.00	0.00	4.89	23.02	0.00	23.02	0.00	2.41	0.13	0.00	2.54	0.00	91.25	0.00	0.	0.00
210	11.500	32.57	0.00	0.00	0.00	4.97	22.74	0.00	22.74	0.00	2.40	0.13	0.00	2.53	0.00	90.78	0.00	0.	0.00
211	11.400	32.57	0.00	0.00	0.00	5.06	22.47	0.00	22.47	0.00	2.40	0.13	0.00	2.53	0.00	90.30	0.00	0.	0.00
212	11.300	32.57	0.00	0.00	0.00	5.14	22.21	0.00	22.21	0.00	2.39	0.13	0.00	2.52	0.00	89.83	0.00	0.	0.00
213	11.200	32.57	0.00	0.00	0.00	5.23	21.96	0.00	21.96	0.00	2.38	0.13	0.00	2.51	0.00	89.35	0.00	0.	0.00
214	11.100	32.57	0.00	0.00	0.00	5.31	21.71	0.00	21.71	0.00	2.38	0.13	0.00	2.50	0.00	88.88	0.00	0.	0.00
215	11.000	32.57	0.00	0.00	0.00	5.39	21.47	0.00	21.47	0.00	2.37	0.13	0.00	2.50	0.00	88.41	0.00	0.	0.00
216	10.900	32.57	0.00	0.00	0.00	5.47	21.24	0.00	21.24	0.00	2.36	0.13	0.00	2.49	0.00	87.93	0.00	0.	0.00
217	10.800	32.57	0.00	0.00	0.00	5.55	21.02	0.00	21.02	0.00	2.36	0.13	0.00	2.48	0.00	87.46	0.00	0.	0.00
218	10.700	32.57	0.00	0.00	0.00	5.63	20.80	0.00	20.80	0.00	2.35	0.13	0.00	2.48	0.00	86.98	0.00	0.	0.00
219	10.600	32.57	0.00	0.00	0.00	5.70	20.59	0.00	20.59	0.00	2.34	0.13	0.00	2.47	0.00	86.51	0.00	0.	0.00
220	10.500	32.57	0.00	0.00	0.00	5.77	20.39	0.00	20.39	0.00	2.34	0.12	0.00	2.46	0.00	86.03	0.00	0.	0.00
221	10.400	32.56	0.00	0.00	0.00	5.84	20.19	0.00	20.19	0.00	2.33	0.12	0.00	2.45	0.00	85.56	0.00	0.	0.00
222	10.300	32.56	0.00	0.00	0.00	5.91	20.00	0.00	20.00	0.00	2.32	0.12	0.00	2.45	0.00	85.09	0.00	0.	0.00
223	10.200	32.56	0.00	0.00	0.00	5.98	19.82	0.00	19.82	0.00	2.32	0.12	0.00	2.44	0.00	84.61	0.00	0.	0.00
224	10.100	32.56	0.00	0.00	0.00	6.05	19.64	0.00	19.64	0.00	2.31	0.12	0.00	2.43	0.00	84.14	0.00	0.	0.00
225	10.000	32.56	0.00	0.00	0.00	6.11	19.46	0.00	19.46	0.00	2.30	0.12	0.00	2.43	0.00	83.66	0.00	0.	0.00

226	9.900	32.56	0.00	0.00	0.00	6.17	19.29	0.00	19.29	0.00	2.30	0.12	0.00	2.42	0.00	83.19	0.00	0. 0.00
227	9.800	32.56	0.00	0.00	0.00	6.23	19.13	0.00	19.13	0.00	2.29	0.12	0.00	2.41	0.00	82.72	0.00	0. 0.00
228	9.700	32.56	0.00	0.00	0.00	6.28	18.97	0.00	18.97	0.00	2.28	0.12	0.00	2.41	0.00	82.24	0.00	0. 0.00
229	9.600	32.56	0.00	0.00	0.00	6.34	18.82	0.00	18.82	0.00	2.28	0.12	0.00	2.40	0.00	81.77	0.00	0. 0.00
230	9.500	32.56	0.00	0.00	0.00	6.39	18.67	0.00	18.67	0.00	2.27	0.12	0.00	2.39	0.00	81.29	0.00	0. 0.00
231	9.400	32.56	0.00	0.00	0.00	6.44	18.52	0.00	18.52	0.00	2.27	0.12	0.00	2.38	0.00	80.82	0.00	0. 0.00
232	9.300	32.56	0.00	0.00	0.00	6.48	18.38	0.00	18.38	0.00	2.26	0.12	0.00	2.38	0.00	80.34	0.00	0. 0.00
233	9.200	32.55	0.00	0.00	0.00	6.53	18.24	0.00	18.24	0.00	2.25	0.12	0.00	2.37	0.00	79.87	0.00	0. 0.00
234	9.100	32.55	0.00	0.00	0.00	6.57	18.11	0.00	18.11	0.00	2.25	0.12	0.00	2.36	0.00	79.40	0.00	0. 0.00
235	9.000	32.55	0.00	0.00	0.00	6.61	17.98	0.00	17.98	0.00	2.24	0.12	0.00	2.36	0.00	78.92	0.00	0. 0.00
236	8.900	32.55	0.00	0.00	0.00	6.64	17.86	0.00	17.86	0.00	2.23	0.12	0.00	2.35	0.00	78.45	0.00	0. 0.00
237	8.800	32.55	0.00	0.00	0.00	6.68	17.74	0.00	17.74	0.00	2.23	0.12	0.00	2.34	0.00	77.97	0.00	0. 0.00
238	8.700	32.55	0.00	0.00	0.00	6.71	17.62	0.00	17.62	0.00	2.22	0.12	0.00	2.34	0.00	77.50	0.00	0. 0.00
239	8.600	32.55	0.00	0.00	0.00	6.74	17.51	0.00	17.51	0.00	2.21	0.12	0.00	2.33	0.00	77.03	0.00	0. 0.00
240	8.500	32.55	0.00	0.00	0.00	6.77	17.40	0.00	17.40	0.00	2.21	0.11	0.00	2.32	0.00	76.55	0.00	0. 0.00
241	8.400	32.55	0.00	0.00	0.00	6.79	17.29	0.00	17.29	0.00	2.20	0.11	0.00	2.32	0.00	76.08	0.00	0. 0.00
242	8.300	32.55	0.00	0.00	0.00	6.81	17.19	0.00	17.19	0.00	2.20	0.11	0.00	2.31	0.00	75.60	0.00	0. 0.00
243	8.200	32.55	0.00	0.00	0.00	6.83	17.09	0.00	17.09	0.00	2.19	0.11	0.00	2.30	0.00	75.13	0.00	0. 0.00
244	8.100	32.54	0.00	0.00	0.00	6.85	16.99	0.00	16.99	0.00	2.18	0.11	0.00	2.30	0.00	74.66	0.00	0. 0.00
245	8.000	32.54	0.00	0.00	0.00	6.86	16.90	0.00	16.90	0.00	2.18	0.11	0.00	2.29	0.00	74.18	0.00	0. 0.00
246	7.900	32.54	0.00	0.00	0.00	6.88	16.81	0.00	16.81	0.00	2.17	0.11	0.00	2.28	0.00	73.71	0.00	0. 0.00
247	7.800	32.54	0.00	0.00	0.00	6.89	16.72	0.00	16.72	0.00	2.17	0.11	0.00	2.28	0.00	73.23	0.00	0. 0.00
248	7.700	32.54	0.00	0.00	0.00	6.90	16.64	0.00	16.64	0.00	2.16	0.11	0.00	2.27	0.00	72.76	0.00	0. 0.00
249	7.600	32.54	0.00	0.00	0.00	6.90	16.55	0.00	16.55	0.00	2.15	0.11	0.00	2.26	0.00	72.28	0.00	0. 0.00
250	7.500	32.54	0.00	0.00	0.00	6.91	16.47	0.00	16.47	0.00	2.15	0.11	0.00	2.26	0.00	71.81	0.00	0. 0.00
251	7.400	32.54	0.00	0.00	0.00	6.91	16.40	0.00	16.40	0.00	2.14	0.11	0.00	2.25	0.00	71.34	0.00	0. 0.00
252	7.300	32.54	0.00	0.00	0.00	6.91	16.32	0.00	16.32	0.00	2.14	0.11	0.00	2.24	0.00	70.86	0.00	0. 0.00
253	7.200	32.54	0.00	0.00	0.00	6.90	16.25	0.00	16.25	0.00	2.13	0.11	0.00	2.24	0.00	70.39	0.00	0. 0.00
254	7.100	32.54	0.00	0.00	0.00	6.90	16.18	0.00	16.18	0.00	2.12	0.11	0.00	2.23	0.00	69.91	0.00	0. 0.00
255	7.000	32.54	0.00	0.00	0.00	6.89	16.11	0.00	16.11	0.00	2.12	0.11	0.00	2.23	0.00	69.44	0.00	0. 0.00
256	6.900	32.53	0.00	0.00	0.00	6.88	16.04	0.00	16.04	0.00	2.11	0.11	0.00	2.22	0.00	68.97	0.00	0. 0.00
257	6.800	32.53	0.00	0.00	0.00	6.87	15.98	0.00	15.98	0.00	2.11	0.11	0.00	2.21	0.00	68.49	0.00	0. 0.00
258	6.700	32.53	0.00	0.00	0.00	6.86	15.91	0.00	15.91	0.00	2.10	0.11	0.00	2.21	0.00	68.02	0.00	0. 0.00
259	6.600	32.53	0.00	0.00	0.00	6.84	15.85	0.00	15.85	0.00	2.09	0.11	0.00	2.20	0.00	67.54	0.00	0. 0.00
260	6.500	32.53	0.00	0.00	0.00	6.83	15.79	0.00	15.79	0.00	2.09	0.11	0.00	2.19	0.00	67.07	0.00	0. 0.00
261	6.400	32.53	0.00	0.00	0.00	6.81	15.74	0.00	15.74	0.00	2.08	0.11	0.00	2.19	0.00	66.59	0.00	0. 0.00
262	6.300	32.53	0.00	0.00	0.00	6.79	15.68	0.00	15.68	0.00	2.08	0.11	0.00	2.18	0.00	66.12	0.00	0. 0.00
263	6.200	32.53	0.00	0.00	0.00	6.77	15.63	0.00	15.63	0.00	2.07	0.11	0.00	2.18	0.00	65.65	0.00	0. 0.00
264	6.100	32.53	0.00	0.00	0.00	6.74	15.58	0.00	15.58	0.00	2.06	0.11	0.00	2.17	0.00	65.17	0.00	0. 0.00
265	6.000	32.53	0.00	0.00	0.00	6.72	15.53	0.00	15.53	0.00	2.06	0.11	0.00	2.16	0.00	64.70	0.00	0. 0.00
266	5.900	32.53	0.00	0.00	0.00	6.69	15.48	0.00	15.48	0.00	2.05	0.11	0.00	2.16	0.00	64.22	0.00	0. 0.00
267	5.800	32.53	0.00	0.00	0.00	6.66	15.43	0.00	15.43	0.00	2.05	0.10	0.00	2.15	0.00	63.75	0.00	0. 0.00
268	5.700	32.52	0.00	0.00	0.00	6.63	15.38	0.00	15.38	0.00	2.04	0.10	0.00	2.15	0.00	63.28	0.00	0. 0.00
269	5.600	32.52	0.00	0.00	0.00	6.60	15.34	0.00	15.34	0.00	2.04	0.10	0.00	2.14	0.00	62.80	0.00	0. 0.00
270	5.500	32.52	0.00	0.00	0.00	6.56	15.30	0.00	15.30	0.00	2.03	0.10	0.00	2.13	0.00	62.33	0.00	0. 0.00
271	5.400	32.52	0.00	0.00	0.00	6.53	15.25	0.00	15.25	0.00	2.02	0.10	0.00	2.13	0.00	61.85	0.00	0. 0.00
272	5.300	32.52	0.00	0.00	0.00	6.49	15.21	0.00	15.21	0.00	2.02	0.10	0.00	2.12	0.00	61.38	0.00	0. 0.00
273	5.200	32.52	0.00	0.00	0.00	6.45	15.17	0.00	15.17	0.00	2.01	0.10	0.00	2.12	0.00	60.91	0.00	0. 0.00
274	5.100	32.52	0.00	0.00	0.00	6.41	15.14	0.00	15.14	0.00	2.01	0.10	0.00	2.11	0.00	60.43	0.00	0. 0.00
275	5.000	32.52	0.00	0.00	0.00	6.37	15.10	0.00	15.10	0.00	2.00	0.10	0.00	2.10	0.00	59.96	0.00	0. 0.00

276	4.900	32.52	0.00	0.00	0.00	6.33	15.06	0.00	15.06	0.00	2.00	0.10	0.00	2.10	0.00	59.48	0.00	0.	0.00
277	4.800	32.52	0.00	0.00	0.00	6.29	15.03	0.00	15.03	0.00	1.99	0.10	0.00	2.09	0.00	59.01	0.00	0.	0.00
278	4.700	32.52	0.00	0.00	0.00	6.24	14.99	0.00	14.99	0.00	1.98	0.10	0.00	2.09	0.00	58.53	0.00	0.	0.00
279	4.600	32.51	0.00	0.00	0.00	6.20	14.96	0.00	14.96	0.00	1.98	0.10	0.00	2.08	0.00	58.06	0.00	0.	0.00
280	4.500	32.51	0.00	0.00	0.00	6.15	14.93	0.00	14.93	0.00	1.97	0.10	0.00	2.07	0.00	57.59	0.00	0.	0.00
281	4.400	32.51	0.00	0.00	0.00	6.10	14.90	0.00	14.90	0.00	1.97	0.10	0.00	2.07	0.00	57.11	0.00	0.	0.00
282	4.300	32.51	0.00	0.00	0.00	6.05	14.87	0.00	14.87	0.00	1.96	0.10	0.00	2.06	0.00	56.64	0.00	0.	0.00
283	4.200	32.51	0.00	0.00	0.00	6.00	14.84	0.00	14.84	0.00	1.96	0.10	0.00	2.06	0.00	56.16	0.00	0.	0.00
284	4.100	32.51	0.00	0.00	0.00	5.95	14.81	0.00	14.81	0.00	1.95	0.10	0.00	2.05	0.00	55.69	0.00	0.	0.00
285	4.000	32.51	0.00	0.00	0.00	5.89	14.79	0.00	14.79	0.00	1.95	0.10	0.00	2.05	0.00	55.22	0.00	0.	0.00
286	3.900	32.51	0.00	0.00	0.00	5.84	14.76	0.00	14.76	0.00	1.94	0.10	0.00	2.04	0.00	54.74	0.00	0.	0.00
287	3.800	32.51	0.00	0.00	0.00	5.79	14.73	0.00	14.73	0.00	1.93	0.10	0.00	2.03	0.00	54.27	0.00	0.	0.00
288	3.700	32.51	0.00	0.00	0.00	5.73	14.71	0.00	14.71	0.00	1.93	0.10	0.00	2.03	0.00	53.79	0.00	0.	0.00
289	3.600	32.51	0.00	0.00	0.00	5.67	14.69	0.00	14.69	0.00	1.92	0.10	0.00	2.02	0.00	53.32	0.00	0.	0.00
290	3.500	32.51	0.00	0.00	0.00	5.61	14.66	0.00	14.66	0.00	1.92	0.10	0.00	2.02	0.00	52.84	0.00	0.	0.00
291	3.400	32.50	0.00	0.00	0.00	5.55	14.64	0.00	14.64	0.00	1.91	0.10	0.00	2.01	0.00	52.37	0.00	0.	0.00
292	3.300	32.50	0.00	0.00	0.00	5.49	14.62	0.00	14.62	0.00	1.91	0.10	0.00	2.01	0.00	51.90	0.00	0.	0.00
293	3.200	32.50	0.00	0.00	0.00	5.43	14.60	0.00	14.60	0.00	1.90	0.10	0.00	2.00	0.00	51.42	0.00	0.	0.00
294	3.100	32.50	0.00	0.00	0.00	5.37	14.58	0.00	14.58	0.00	1.90	0.10	0.00	2.00	0.00	50.95	0.00	0.	0.00
295	3.000	32.50	0.00	0.00	0.00	5.31	14.56	0.00	14.56	0.00	1.89	0.10	0.00	1.99	0.00	50.47	0.00	0.	0.00
296	2.900	32.50	0.00	0.00	0.00	5.27	14.53	0.00	14.53	0.00	1.89	0.10	0.00	1.99	0.00	50.00	0.00	0.	0.00

FINAL REPORT Grassy Lake LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 7 Lake Verret 3 Calibration Simulation for Lake Verret and Grassy Lake 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 #/100mL	COLI	NCM
297	UPR RCH	90.81248	32.50	0.00	0.00	0.00	5.27	14.53	0.00	14.53	0.00	1.89	0.10	0.00	0.00	50.00	0.00	0.00
319	WSTLD	0.00008	0.00	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	2.00	1.50	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s	
297	2.90	2.80	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
298	2.80	2.70	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
299	2.70	2.60	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
300	2.60	2.50	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
301	2.50	2.40	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
302	2.40	2.30	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
303	2.30	2.20	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
304	2.20	2.10	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
305	2.10	2.00	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
306	2.00	1.90	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
307	1.90	1.80	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
308	1.80	1.70	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
309	1.70	1.60	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
310	1.60	1.50	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
311	1.50	1.40	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
312	1.40	1.30	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
313	1.30	1.20	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	
314	1.20	1.10	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061	

315	1.10	1.00	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061
316	1.00	0.90	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061
317	0.90	0.80	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061
318	0.80	0.70	90.81248	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061
319	0.70	0.60	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061
320	0.60	0.50	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061
321	0.50	0.40	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061
322	0.40	0.30	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061
323	0.30	0.20	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061
324	0.20	0.10	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061
325	0.10	0.00	90.81256	33.2	0.06072	0.02	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.500	0.061
TOT					0.55			4337385.00	2224300.00						
AVG					0.0607		1.95	767.00			1495.65				
CUM					16.47										

********** 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	ABOD#2 SETT	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
297	2.800	7.25	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.53	1.53	1.53	0.03	0.00	0.50	0.00	0.00	0.00	4.28	0.00	0.00	0.00	0.00
298	2.700	7.26	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.53	1.53	1.53	0.03	0.00	0.50	0.00	0.00	0.00	4.12	0.00	0.00	0.00	0.00
299	2.600	7.26	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.03	0.00	0.49	0.00	0.00	0.00	3.97	0.00	0.00	0.00	0.00
300	2.500	7.27	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.03	0.00	0.49	0.00	0.00	0.00	3.81	0.00	0.00	0.00	0.00
301	2.400	7.28	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.51	1.51	1.51	0.03	0.00	0.49	0.00	0.00	0.00	3.65	0.00	0.00	0.00	0.00
302	2.300	7.29	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.48	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00
303	2.200	7.29	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.03	0.00	0.48	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00
304	2.100	7.30	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.48	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
305	2.000	7.31	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.48	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
306	1.900	7.32	0.48	0.35	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.47	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
307	1.800	7.32	0.48	0.34	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.03	0.00	0.47	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
308	1.700	7.33	0.48	0.34	0.00	0.00	0.00	0.00	0.00	1.47	1.47	1.47	0.03	0.00	0.47	0.00	0.00	0.00	2.59	0.00	0.00	0.00	0.00
309	1.600	7.34	0.48	0.34	0.00	0.00	0.00	0.00	0.00	1.47	1.47	1.47	0.03	0.00	0.46	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00
310	1.500	7.34	0.48	0.34	0.00	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.03	0.00	0.46	0.00	0.00	0.00	2.29	0.00	0.00	0.00	0.00
311	1.400	7.35	0.48	0.34	0.00	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.03	0.00	0.46	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
312	1.300	7.36	0.48	0.34	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.03	0.00	0.45	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
313	1.200	7.37	0.47	0.34	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.03	0.00	0.45	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
314	1.100	7.37	0.47	0.34	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.03	0.00	0.45	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
315	1.000	7.38	0.47	0.34	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.03	0.00	0.44	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
316	0.900	7.39	0.47	0.34	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.03	0.00	0.44	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
317	0.800	7.40	0.47	0.34	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.03	0.00	0.44	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
318	0.700	7.40	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.02	0.00	0.43	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
319	0.600	7.41	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.02	0.00	0.43	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
320	0.500	7.42	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.02	0.00	0.43	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
321	0.400	7.43	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.40	1.40	1.40	0.02	0.00	0.42	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
322	0.300	7.43	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.40	1.40	1.40	0.02	0.00	0.42	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
323	0.200	7.44	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.39	1.39	1.39	0.02	0.00	0.42	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
324	0.100	7.45	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.39	1.39	1.39	0.02	0.00	0.41	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
325	0.000	7.46	0.47	0.33	0.00	0.00	0.00	0.00	0.00	1.38	1.38	1.38	0.02	0.00	0.41	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.38	0.20	0.00	0.00	0.00	0.00	0.00	0.70			0.02	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
297	2.800	32.44	0.00	0.00	0.00	5.25	14.49	0.00	14.49	0.00	1.89	0.10	0.00	1.99	0.00	48.34	0.00	0.	0.00
298	2.700	32.38	0.00	0.00	0.00	5.23	14.43	0.00	14.43	0.00	1.89	0.10	0.00	1.99	0.00	46.69	0.00	0.	0.00
299	2.600	32.32	0.00	0.00	0.00	5.21	14.38	0.00	14.38	0.00	1.89	0.10	0.00	1.98	0.00	45.03	0.00	0.	0.00
300	2.500	32.27	0.00	0.00	0.00	5.19	14.33	0.00	14.33	0.00	1.88	0.10	0.00	1.98	0.00	43.38	0.00	0.	0.00
301	2.400	32.21	0.00	0.00	0.00	5.16	14.28	0.00	14.28	0.00	1.88	0.10	0.00	1.98	0.00	41.72	0.00	0.	0.00
302	2.300	32.15	0.00	0.00	0.00	5.13	14.23	0.00	14.23	0.00	1.88	0.10	0.00	1.98	0.00	40.07	0.00	0.	0.00
303	2.200	32.09	0.00	0.00	0.00	5.11	14.18	0.00	14.18	0.00	1.88	0.10	0.00	1.98	0.00	38.41	0.00	0.	0.00
304	2.100	32.03	0.00	0.00	0.00	5.07	14.13	0.00	14.13	0.00	1.88	0.10	0.00	1.98	0.00	36.76	0.00	0.	0.00
305	2.000	31.97	0.00	0.00	0.00	5.04	14.08	0.00	14.08	0.00	1.88	0.10	0.00	1.98	0.00	35.10	0.00	0.	0.00
306	1.900	31.91	0.00	0.00	0.00	5.01	14.03	0.00	14.03	0.00	1.88	0.10	0.00	1.98	0.00	33.45	0.00	0.	0.00
307	1.800	31.86	0.00	0.00	0.00	4.97	13.98	0.00	13.98	0.00	1.88	0.10	0.00	1.98	0.00	31.79	0.00	0.	0.00
308	1.700	31.80	0.00	0.00	0.00	4.93	13.94	0.00	13.94	0.00	1.88	0.10	0.00	1.98	0.00	30.14	0.00	0.	0.00
309	1.600	31.74	0.00	0.00	0.00	4.89	13.89	0.00	13.89	0.00	1.88	0.10	0.00	1.98	0.00	28.48	0.00	0.	0.00
310	1.500	31.68	0.00	0.00	0.00	4.85	13.84	0.00	13.84	0.00	1.88	0.10	0.00	1.97	0.00	26.83	0.00	0.	0.00
311	1.400	31.62	0.00	0.00	0.00	4.81	13.80	0.00	13.80	0.00	1.87	0.10	0.00	1.97	0.00	25.17	0.00	0.	0.00
312	1.300	31.56	0.00	0.00	0.00	4.76	13.75	0.00	13.75	0.00	1.87	0.10	0.00	1.97	0.00	23.52	0.00	0.	0.00
313	1.200	31.50	0.00	0.00	0.00	4.71	13.71	0.00	13.71	0.00	1.87	0.10	0.00	1.97	0.00	21.86	0.00	0.	0.00
314	1.100	31.44	0.00	0.00	0.00	4.66	13.66	0.00	13.66	0.00	1.87	0.10	0.00	1.97	0.00	20.21	0.00	0.	0.00
315	1.000	31.39	0.00	0.00	0.00	4.61	13.62	0.00	13.62	0.00	1.87	0.10	0.00	1.97	0.00	18.55	0.00	0.	0.00
316	0.900	31.33	0.00	0.00	0.00	4.56	13.58	0.00	13.58	0.00	1.87	0.10	0.00	1.97	0.00	16.90	0.00	0.	0.00
317	0.800	31.27	0.00	0.00	0.00	4.51	13.53	0.00	13.53	0.00	1.87	0.10	0.00	1.97	0.00	15.24	0.00	0.	0.00
318	0.700	31.21	0.00	0.00	0.00	4.45	13.49	0.00	13.49	0.00	1.87	0.10	0.00	1.97	0.00	13.59	0.00	0.	0.00
319	0.600	31.15	0.00	0.00	0.00	4.39	13.45	0.00	13.45	0.00	1.87	0.10	0.00	1.97	0.00	11.93	0.00	0.	0.00
320	0.500	31.09	0.00	0.00	0.00	4.34	13.41	0.00	13.41	0.00	1.87	0.10	0.00	1.97	0.00	10.28	0.00	0.	0.00
321	0.400	31.03	0.00	0.00	0.00	4.28	13.37	0.00	13.37	0.00	1.87	0.10	0.00	1.97	0.00	8.62	0.00	0.	0.00
322	0.300	30.98	0.00	0.00	0.00	4.21	13.33	0.00	13.33	0.00	1.86	0.10	0.00	1.96	0.00	6.97	0.00	0.	0.00
323	0.200	30.92	0.00	0.00	0.00	4.15	13.28	0.00	13.28	0.00	1.86	0.10	0.00	1.96	0.00	5.31	0.00	0.	0.00
324	0.100	30.86	0.00	0.00	0.00	4.09	13.14	0.00	13.14	0.00	1.84	0.10	0.00	1.94	0.00	3.66	0.00	0.	0.00
325	0.000	30.80	0.00	0.00	0.00	4.09	11.74	0.00	11.74	0.00	1.60	0.10	0.00	1.70	0.00	2.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

Grassy Lake Calibration Simulation for Lake Verret and Grassy Lake model

TRAVEL TIME = 16.47 DAYS
MAXIMUM EFFLUENT = 33.16 PERCENT
FLOW = 51.90000 TO 90.81256 m³/s
DISPERSION = 0.2000 TO 0.5000 m²/s
VELOCITY = 0.01042 TO 0.15893 m/s
DEPTH = 1.01 TO 5.24 m
WIDTH = 87.00 TO ****** m
BOD DECAY = 0.28 TO 0.40 per day
NH3 DECAY = 0.41 TO 0.59 per day
SOD = 1.38 TO 7.18 g/m²/d
NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 0.17 TO 0.95 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 = 30.80 TO 33.90 deg C
DISSOLVED OXYGEN = 3.55 TO 6.91 mg/L

FINAL REPORT Fourmile Bayou Oxbow LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 3 Fourmile Bayou Oxbow Calibration Simulation for Lake Verret and Grassy Lake 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
56	HDWTR	8.80000	33.90	0.00	0.00	0.00	6.80	25.50	0.00	25.50	0.00	1.70	0.10	0.04	0.00	95.00	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
56	4.20	4.10	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
57	4.10	4.00	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
58	4.00	3.90	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
59	3.90	3.80	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
60	3.80	3.70	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
61	3.70	3.60	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
62	3.60	3.50	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
63	3.50	3.40	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
64	3.40	3.30	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
65	3.30	3.20	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
66	3.20	3.10	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
67	3.10	3.00	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
68	3.00	2.90	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
69	2.90	2.80	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
70	2.80	2.70	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
71	2.70	2.60	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
72	2.60	2.50	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
73	2.50	2.40	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
74	2.40	2.30	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
75	2.30	2.20	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
76	2.20	2.10	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
77	2.10	2.00	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
78	2.00	1.90	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
79	1.90	1.80	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
80	1.80	1.70	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
81	1.70	1.60	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
82	1.60	1.50	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
83	1.50	1.40	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
84	1.40	1.30	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
85	1.30	1.20	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
86	1.20	1.10	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
87	1.10	1.00	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
88	1.00	0.90	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
89	0.90	0.80	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
90	0.80	0.70	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
91	0.70	0.60	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
92	0.60	0.50	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
93	0.50	0.40	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
94	0.40	0.30	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040
95	0.30	0.20	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040

96	0.20	0.10	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040										
97	0.10	0.00	8.80000	0.0	0.04046	0.03	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.300	0.040										
TOT					1.20			913500.00	365400.00																
AVG				0.0405			2.50	87.00			217.50														
CUM					1.20																				

********** 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			
56	4.100	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.19	7.19	7.19	0.03	0.00	0.59	0.00	0.00	0.00	8.84	0.00	0.00	0.00	0.00	
57	4.000	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.18	7.18	7.18	0.03	0.00	0.58	0.00	0.00	0.00	8.68	0.00	0.00	0.00	0.00	
58	3.900	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.17	7.17	7.17	0.03	0.00	0.58	0.00	0.00	0.00	8.53	0.00	0.00	0.00	0.00	
59	3.800	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.16	7.16	7.16	0.03	0.00	0.58	0.00	0.00	0.00	8.37	0.00	0.00	0.00	0.00	
60	3.700	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.15	7.15	7.15	0.03	0.00	0.57	0.00	0.00	0.00	8.22	0.00	0.00	0.00	0.00	
61	3.600	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	7.13	7.13	7.13	0.03	0.00	0.57	0.00	0.00	0.00	8.06	0.00	0.00	0.00	0.00	
62	3.500	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.12	7.12	7.12	0.03	0.00	0.57	0.00	0.00	0.00	7.91	0.00	0.00	0.00	0.00	
63	3.400	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.11	7.11	7.11	0.03	0.00	0.56	0.00	0.00	0.00	7.75	0.00	0.00	0.00	0.00	
64	3.300	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.10	7.10	7.10	0.03	0.00	0.56	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00	
65	3.200	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.09	7.09	7.09	0.03	0.00	0.55	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00	
66	3.100	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.08	7.08	7.08	0.03	0.00	0.55	0.00	0.00	0.00	7.29	0.00	0.00	0.00	0.00	
67	3.000	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.07	7.07	7.07	0.03	0.00	0.55	0.00	0.00	0.00	7.14	0.00	0.00	0.00	0.00	
68	2.900	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.06	7.06	7.06	0.03	0.00	0.54	0.00	0.00	0.00	6.99	0.00	0.00	0.00	0.00	
69	2.800	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.05	7.05	7.05	0.03	0.00	0.53	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00	
70	2.700	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.04	7.04	7.04	0.03	0.00	0.53	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00	
71	2.600	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.03	7.03	7.03	0.03	0.00	0.52	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00	
72	2.500	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.02	7.02	7.02	0.03	0.00	0.52	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00	
73	2.400	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.01	7.01	7.01	0.03	0.00	0.51	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00	
74	2.300	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	7.00	7.00	7.00	0.03	0.00	0.50	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00	
75	2.200	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.99	6.99	6.99	0.03	0.00	0.50	0.00	0.00	0.00	5.93	0.00	0.00	0.00	0.00	
76	2.100	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.98	6.98	6.98	0.03	0.00	0.49	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00	
77	2.000	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.97	6.97	6.97	0.03	0.00	0.48	0.00	0.00	0.00	5.63	0.00	0.00	0.00	0.00	
78	1.900	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.96	6.96	6.96	0.03	0.00	0.47	0.00	0.00	0.00	5.48	0.00	0.00	0.00	0.00	
79	1.800	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.94	6.94	6.94	0.03	0.00	0.46	0.00	0.00	0.00	5.34	0.00	0.00	0.00	0.00	
80	1.700	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.93	6.93	6.93	0.03	0.00	0.45	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.00	
81	1.600	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.92	6.92	6.92	0.03	0.00	0.44	0.00	0.00	0.00	5.04	0.00	0.00	0.00	0.00	
82	1.500	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.91	6.91	6.91	0.03	0.00	0.43	0.00	0.00	0.00	4.89	0.00	0.00	0.00	0.00	
83	1.400	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.90	6.90	6.90	0.03	0.00	0.42	0.00	0.00	0.00	4.74	0.00	0.00	0.00	0.00	
84	1.300	7.16	0.36	0.39	0.00	0.00	0.00	0.00	0.00	6.89	6.89	6.89	0.03	0.00	0.40	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00	
85	1.200	7.16	0.36	0.38	0.00	0.00	0.00	0.00	0.00	6.88	6.88	6.86	0.03	0.00	0.39	0.00	0.00	0.00	4.45	0.00	0.00	0.00	0.00	
86	1.100	7.16	0.36	0.35	0.00	0.00	0.00	0.00	0.00	6.87	6.87	6.30	0.03	0.00	0.29	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00	
87	1.000	7.17	0.36	0.33	0.00	0.00	0.00	0.00	0.00	6.86	6.86	5.81	0.03	0.00	0.21	0.00	0.00	0.00	4.16	0.00	0.00	0.00	0.00	
88	0.900	7.17	0.36	0.30	0.00	0.00	0.00	0.00	0.00	6.85	6.85	5.40	0.03	0.00	0.16	0.00	0.00	0.00	4.01	0.00	0.00	0.00	0.00	
89	0.800	7.17	0.35	0.28	0.00	0.00	0.00	0.00	0.00	6.84	6.84	5.03	0.03	0.00	0.12	0.00	0.00	0.00	3.87	0.00	0.00	0.00	0.00	
90	0.700	7.18	0.35	0.26	0.00	0.00	0.00	0.00	0.00	6.83	6.83	4.72	0.03	0.00	0.10	0.00	0.00	0.00	3.72	0.00	0.00	0.00	0.00	
91	0.600	7.18	0.35	0.25	0.00	0.00	0.00	0.00	0.00	6.82	6.82	4.44	0.03	0.00	0.08	0.00	0.00	0.00	3.58	0.00	0.00	0.00	0.00	
92	0.500	7.18	0.35	0.23	0.00	0.00	0.00	0.00	0.00	6.81	6.81	4.19	0.03	0.00	0.06	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00	
93	0.400	7.18	0.35	0.22	0.00	0.00	0.00	0.00	0.00	6.80	6.80	3.97	0.03	0.00	0.05	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00	
94	0.300	7.19	0.35	0.21	0.00	0.00	0.00	0.00	0.00	6.79	6.79	3.77	0.03	0.00	0.04	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00	
95	0.200	7.19	0.35	0.20	0.00	0.00	0.00	0.00	0.00	6.78	6.78	3.60	0.03	0.00	0.04	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	
96	0.100	7.19	0.35	0.20	0.00	0.00	0.00	0.00	0.00	6.77	6.77	3.49	0.03	0.00	0.03	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00	

97 0.000 7.20 0.35 0.25 0.00 0.00 0.00 0.00 0.00 6.76 6.76 4.36 0.03 0.00 0.08 0.00 0.00 0.00 2.71 0.00 0.00 0.00 0.00
AVG 20 DEG C RATE 0.28 0.21 0.00 0.00 0.00 0.00 0.00 3.00 0.02 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
56	4.100	33.88	0.00	0.00	0.00	6.67	25.52	0.00	25.52	0.00	1.73	0.10	0.03	1.85	0.00	93.45	0.00	0.	0.00
57	4.000	33.85	0.00	0.00	0.00	6.54	25.55	0.00	25.55	0.00	1.75	0.10	0.02	1.87	0.00	91.90	0.00	0.	0.00
58	3.900	33.83	0.00	0.00	0.00	6.41	25.57	0.00	25.57	0.00	1.77	0.10	0.01	1.88	0.00	90.36	0.00	0.	0.00
59	3.800	33.80	0.00	0.00	0.00	6.28	25.59	0.00	25.59	0.00	1.80	0.10	0.00	1.90	0.00	88.81	0.00	0.	0.00
60	3.700	33.78	0.00	0.00	0.00	6.15	25.62	0.00	25.62	0.00	1.82	0.10	0.00	1.92	0.00	87.26	0.00	0.	0.00
61	3.600	33.76	0.00	0.00	0.00	6.01	25.64	0.00	25.64	0.00	1.84	0.10	0.00	1.94	0.00	85.71	0.00	0.	0.00
62	3.500	33.73	0.00	0.00	0.00	5.87	25.66	0.00	25.66	0.00	1.87	0.10	0.00	1.97	0.00	84.17	0.00	0.	0.00
63	3.400	33.71	0.00	0.00	0.00	5.73	25.69	0.00	25.69	0.00	1.89	0.10	0.00	1.99	0.00	82.62	0.00	0.	0.00
64	3.300	33.69	0.00	0.00	0.00	5.59	25.71	0.00	25.71	0.00	1.91	0.10	0.00	2.01	0.00	81.07	0.00	0.	0.00
65	3.200	33.66	0.00	0.00	0.00	5.44	25.74	0.00	25.74	0.00	1.94	0.10	0.00	2.04	0.00	79.52	0.00	0.	0.00
66	3.100	33.64	0.00	0.00	0.00	5.29	25.76	0.00	25.76	0.00	1.96	0.10	0.00	2.06	0.00	77.98	0.00	0.	0.00
67	3.000	33.61	0.00	0.00	0.00	5.14	25.78	0.00	25.78	0.00	1.99	0.10	0.00	2.08	0.00	76.43	0.00	0.	0.00
68	2.900	33.59	0.00	0.00	0.00	4.98	25.81	0.00	25.81	0.00	2.01	0.10	0.00	2.11	0.00	74.88	0.00	0.	0.00
69	2.800	33.57	0.00	0.00	0.00	4.82	25.83	0.00	25.83	0.00	2.03	0.10	0.00	2.13	0.00	73.33	0.00	0.	0.00
70	2.700	33.54	0.00	0.00	0.00	4.66	25.85	0.00	25.85	0.00	2.06	0.10	0.00	2.15	0.00	71.79	0.00	0.	0.00
71	2.600	33.52	0.00	0.00	0.00	4.50	25.88	0.00	25.88	0.00	2.08	0.10	0.00	2.18	0.00	70.24	0.00	0.	0.00
72	2.500	33.50	0.00	0.00	0.00	4.34	25.90	0.00	25.90	0.00	2.10	0.10	0.00	2.20	0.00	68.69	0.00	0.	0.00
73	2.400	33.47	0.00	0.00	0.00	4.17	25.93	0.00	25.93	0.00	2.13	0.10	0.00	2.22	0.00	67.14	0.00	0.	0.00
74	2.300	33.45	0.00	0.00	0.00	4.00	25.95	0.00	25.95	0.00	2.15	0.10	0.00	2.25	0.00	65.60	0.00	0.	0.00
75	2.200	33.42	0.00	0.00	0.00	3.83	25.97	0.00	25.97	0.00	2.17	0.10	0.00	2.27	0.00	64.05	0.00	0.	0.00
76	2.100	33.40	0.00	0.00	0.00	3.65	26.00	0.00	26.00	0.00	2.20	0.10	0.00	2.30	0.00	62.50	0.00	0.	0.00
77	2.000	33.38	0.00	0.00	0.00	3.48	26.02	0.00	26.02	0.00	2.22	0.10	0.00	2.32	0.00	60.95	0.00	0.	0.00
78	1.900	33.35	0.00	0.00	0.00	3.30	26.05	0.00	26.05	0.00	2.24	0.10	0.00	2.34	0.00	59.40	0.00	0.	0.00
79	1.800	33.33	0.00	0.00	0.00	3.12	26.07	0.00	26.07	0.00	2.27	0.10	0.00	2.37	0.00	57.86	0.00	0.	0.00
80	1.700	33.30	0.00	0.00	0.00	2.93	26.10	0.00	26.10	0.00	2.29	0.10	0.00	2.39	0.00	56.31	0.00	0.	0.00
81	1.600	33.28	0.00	0.00	0.00	2.75	26.12	0.00	26.12	0.00	2.31	0.10	0.00	2.41	0.00	54.76	0.00	0.	0.00
82	1.500	33.26	0.00	0.00	0.00	2.56	26.14	0.00	26.14	0.00	2.34	0.10	0.00	2.44	0.00	53.21	0.00	0.	0.00
83	1.400	33.23	0.00	0.00	0.00	2.37	26.17	0.00	26.17	0.00	2.36	0.10	0.00	2.46	0.00	51.67	0.00	0.	0.00
84	1.300	33.21	0.00	0.00	0.00	2.18	26.19	0.00	26.19	0.00	2.38	0.10	0.00	2.49	0.00	50.12	0.00	0.	0.00
85	1.200	33.19	0.00	0.00	0.00	1.99	26.22	0.00	26.22	0.00	2.41	0.10	0.00	2.51	0.00	48.57	0.00	0.	0.00
86	1.100	33.16	0.00	0.00	0.00	1.83	26.27	0.00	26.27	0.00	2.43	0.10	0.00	2.53	0.00	47.02	0.00	0.	0.00
87	1.000	33.14	0.00	0.00	0.00	1.69	26.34	0.00	26.34	0.00	2.45	0.11	0.00	2.56	0.00	45.48	0.00	0.	0.00
88	0.900	33.11	0.00	0.00	0.00	1.58	26.43	0.00	26.43	0.00	2.48	0.11	0.00	2.58	0.00	43.93	0.00	0.	0.00
89	0.800	33.09	0.00	0.00	0.00	1.47	26.53	0.00	26.53	0.00	2.50	0.11	0.00	2.61	0.00	42.38	0.00	0.	0.00
90	0.700	33.07	0.00	0.00	0.00	1.38	26.64	0.00	26.64	0.00	2.52	0.11	0.00	2.63	0.00	40.83	0.00	0.	0.00
91	0.600	33.04	0.00	0.00	0.00	1.30	26.76	0.00	26.76	0.00	2.55	0.11	0.00	2.66	0.00	39.29	0.00	0.	0.00
92	0.500	33.02	0.00	0.00	0.00	1.23	26.89	0.00	26.89	0.00	2.57	0.11	0.00	2.68	0.00	37.74	0.00	0.	0.00
93	0.400	33.00	0.00	0.00	0.00	1.17	27.04	0.00	27.04	0.00	2.59	0.11	0.00	2.71	0.00	36.19	0.00	0.	0.00
94	0.300	32.97	0.00	0.00	0.00	1.11	27.19	0.00	27.19	0.00	2.62	0.12	0.00	2.73	0.00	34.64	0.00	0.	0.00
95	0.200	32.95	0.00	0.00	0.00	1.06	27.34	0.00	27.34	0.00	2.64	0.12	0.00	2.76	0.00	33.10	0.00	0.	0.00
96	0.100	32.92	0.00	0.00	0.00	1.03	27.47	0.00	27.47	0.00	2.66	0.12	0.00	2.78	0.00	31.55	0.00	0.	0.00
97	0.000	32.90	0.00	0.00	0.00	1.29	27.28	0.00	27.28	0.00	2.62	0.12	0.00	2.73	0.00	30.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

Fourmile Bayou Oxbow Calibration Simulation for Lake Verret and Grassy Lake model

TRAVEL TIME = 1.20 DAYS
MAXIMUM EFFLUENT = 0.00 PERCENT
FLOW = 8.80000 TO 8.80000 m³/s
DISPERSION = 0.3000 TO 0.3000 m²/s
VELOCITY = 0.04046 TO 0.04046 m/s
DEPTH = 2.50 TO 2.50 m
WIDTH = 87.00 TO 87.00 m
BOD DECAY = 0.20 TO 0.40 per day
NH3 DECAY = 0.03 TO 0.59 per day
SOD = 3.49 TO 7.19 g/m²/d
NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 0.35 TO 0.36 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.03 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day
TEMPERATURE = 32.90 TO 33.88 deg C
DISSOLVED OXYGEN = 1.03 TO 6.67 mg/L

LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
Calibration Simulation for Lake Verret and Grassy Lake model
REACH SUMMARY REPORT FOR Grassy Lake

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	Grassy Lake	28.30	24.80	3.50	0.95	51.90000	0.04268	1.010	1343.00	1832.589	0.140	3.314	4406.38
2	Fourmile Bayou 1	24.80	22.80	2.00	0.25	51.90000	0.09257	5.240	107.00	1832.589	0.304	17.192	351.07
4	Fourmile Bayou 2	22.80	19.40	3.40	0.25	60.70000	0.15893	4.390	87.00	2143.317	0.521	14.404	285.45
5	Lake Verret 1	19.40	14.50	4.90	1.58	90.80202	0.03582	1.340	1892.00	3206.219	0.118	4.397	6207.65
6	Lake Verret 2	14.50	2.90	11.60	12.89	90.81248	0.01042	2.130	4092.00	3206.589	0.034	6.98913	425.85
7	Lake Verret 3	2.90	0.00	2.90	0.55	90.81256	0.06072	1.950	767.00	3206.592	0.199	6.398	2516.53

LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
Calibration Simulation for Lake Verret and Grassy Lake model
REACH SUMMARY REPORT FOR Fourmile Bayou Oxbow

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
3	Fourmile Bayou Oxbow	4.20	0.00	4.20	1.20	8.80000	0.04046	2.500	87.00	310.728	0.133	8.202	285.45

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

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 IN	TOT OUT
1	35138.	0.	-35139.	0.	0.	0.	0.	0.	0.	0.	60.	-1049.	-32.	0.	0.	-215.	0.	0.	0.	1237.	0.	0.	-36435.2	36435.2	-0.01		
2	35139.	0.	-35138.	0.	0.	0.	0.	0.	0.	0.	59.	-1050.	-32.	0.	0.	-215.	0.	0.	0.	1237.	0.	0.	-36435.7	36435.7	0.00		
3	35138.	0.	-35134.	0.	0.	-1.	0.	0.	0.	0.	0.	59.	-1051.	-32.	0.	0.	-215.	0.	0.	0.	1236.	0.	0.	-36433.8	36433.8	0.00	
4	35134.	0.	-35128.	1.	0.	-1.	0.	0.	0.	0.	0.	59.	-1053.	-32.	0.	0.	-216.	0.	0.	0.	1236.	0.	0.	-36429.7	36429.7	0.00	
5	35128.	0.	-35120.	1.	0.	-1.	0.	0.	0.	0.	0.	59.	-1054.	-32.	0.	0.	-216.	0.	0.	0.	1235.	0.	0.	-36423.2	36423.2	0.00	
6	35120.	0.	-35109.	1.	0.	-1.	0.	0.	0.	0.	0.	59.	-1056.	-32.	0.	0.	-216.	0.	0.	0.	1235.	0.	0.	-36414.6	36414.6	-0.01	
7	35109.	0.	-35096.	1.	0.	-2.	0.	0.	0.	0.	0.	59.	-1057.	-32.	0.	0.	-217.	0.	0.	0.	1235.	0.	0.	-36403.9	36403.9	-0.01	
8	35096.	0.	-35082.	2.	0.	-2.	0.	0.	0.	0.	0.	59.	-1058.	-32.	0.	0.	-217.	0.	0.	0.	1234.	0.	0.	-36391.1	36391.1	0.00	
9	35082.	0.	-35065.	2.	0.	-2.	0.	0.	0.	0.	0.	59.	-1060.	-32.	0.	0.	-217.	0.	0.	0.	1234.	0.	0.	-36376.2	36376.2	0.00	
10	35065.	0.	-35047.	2.	0.	-2.	0.	0.	0.	0.	0.	59.	-1061.	-32.	0.	0.	-218.	0.	0.	0.	1233.	0.	0.	-36359.4	36359.4	0.00	

11	35047.	0.	-35026.	2.	0.	-2.	0.	0.	0.	0.	0.	59.	-1062.	-32.	0.	0.	-218.	0.	0.	0.	1233.	0.	0.	-36340.7	36340.7	-0.01
12	35026.	0.	-35004.	2.	0.	-3.	0.	0.	0.	0.	0.	60.	-1064.	-32.	0.	0.	-218.	0.	0.	0.	1232.	0.	0.	-36320.2	36320.2	0.00
13	35004.	0.	-34980.	3.	0.	-3.	0.	0.	0.	0.	0.	60.	-1065.	-32.	0.	0.	-219.	0.	0.	0.	1232.	0.	0.	-36297.8	36297.8	0.00
14	34980.	0.	-34954.	3.	0.	-3.	0.	0.	0.	0.	0.	60.	-1066.	-32.	0.	0.	-219.	0.	0.	0.	1231.	0.	0.	-36273.7	36273.7	-0.01
15	34954.	0.	-34926.	3.	0.	-3.	0.	0.	0.	0.	0.	60.	-1067.	-32.	0.	0.	-219.	0.	0.	0.	1231.	0.	0.	-36247.8	36247.8	0.00
16	34926.	0.	-34897.	3.	0.	-3.	0.	0.	0.	0.	0.	61.	-1069.	-32.	0.	0.	-220.	0.	0.	0.	1230.	0.	0.	-36220.3	36220.3	0.00
17	34897.	0.	-34866.	3.	0.	-4.	0.	0.	0.	0.	0.	61.	-1070.	-32.	0.	0.	-220.	0.	0.	0.	1230.	0.	0.	-36191.1	36191.1	-0.01
18	34866.	0.	-34834.	4.	0.	-4.	0.	0.	0.	0.	0.	62.	-1071.	-32.	0.	0.	-220.	0.	0.	0.	1229.	0.	0.	-36160.4	36160.4	0.00
19	34834.	0.	-34800.	4.	0.	-4.	0.	0.	0.	0.	0.	62.	-1072.	-32.	0.	0.	-220.	0.	0.	0.	1229.	0.	0.	-36128.1	36128.1	-0.01
20	34800.	0.	-34764.	4.	0.	-4.	0.	0.	0.	0.	0.	63.	-1074.	-32.	0.	0.	-221.	0.	0.	0.	1228.	0.	0.	-36094.4	36094.4	-0.01
21	34764.	0.	-34727.	4.	0.	-4.	0.	0.	0.	0.	0.	63.	-1075.	-32.	0.	0.	-221.	0.	0.	0.	1227.	0.	0.	-36059.2	36059.2	0.00
22	34727.	0.	-34689.	4.	0.	-4.	0.	0.	0.	0.	0.	64.	-1076.	-32.	0.	0.	-221.	0.	0.	0.	1227.	0.	0.	-36022.6	36022.6	0.00
23	34689.	0.	-34649.	4.	0.	-5.	0.	0.	0.	0.	0.	65.	-1077.	-32.	0.	0.	-222.	0.	0.	0.	1226.	0.	0.	-35984.6	35984.6	0.00
24	34649.	0.	-34609.	5.	0.	-5.	0.	0.	0.	0.	0.	65.	-1078.	-31.	0.	0.	-222.	0.	0.	0.	1226.	0.	0.	-35945.3	35945.3	-0.01
25	34609.	0.	-34566.	5.	0.	-5.	0.	0.	0.	0.	0.	66.	-1080.	-31.	0.	0.	-222.	0.	0.	0.	1225.	0.	0.	-35904.7	35904.7	-0.01
26	34566.	0.	-29517.	5.	0.	-6.	0.	0.	0.	0.	-5005.	67.	-1081.	-31.	0.	0.	-223.	0.	0.	0.	1225.	0.	0.	-35862.8	35862.8	0.00
27	29517.	0.	-29473.	6.	0.	-6.	0.	0.	0.	0.	0.	68.	-1082.	-31.	0.	0.	-223.	0.	0.	0.	1224.	0.	0.	-30815.1	30815.1	0.00
28	29473.	0.	-29427.	6.	0.	-6.	0.	0.	0.	0.	0.	69.	-1083.	-31.	0.	0.	-223.	0.	0.	0.	1224.	0.	0.	-30771.1	30771.1	0.00
29	29427.	0.	-29381.	6.	0.	-6.	0.	0.	0.	0.	0.	70.	-1084.	-31.	0.	0.	-224.	0.	0.	0.	1223.	0.	0.	-30726.3	30726.3	-0.01
30	29381.	0.	-29333.	6.	0.	-6.	0.	0.	0.	0.	0.	71.	-1085.	-31.	0.	0.	-224.	0.	0.	0.	1223.	0.	0.	-30680.5	30680.5	0.00
31	29333.	0.	-29285.	6.	0.	-6.	0.	0.	0.	0.	0.	72.	-1087.	-31.	0.	0.	-224.	0.	0.	0.	1222.	0.	0.	-30633.7	30633.7	0.00
32	29285.	0.	-29236.	6.	0.	-7.	0.	0.	0.	0.	0.	73.	-1088.	-31.	0.	0.	-225.	0.	0.	0.	1222.	0.	0.	-30586.2	30586.2	-0.01
33	29236.	0.	-29186.	7.	0.	-7.	0.	0.	0.	0.	0.	74.	-1089.	-31.	0.	0.	-225.	0.	0.	0.	1221.	0.	0.	-30537.7	30537.7	0.00
34	29186.	0.	-29135.	7.	0.	-7.	0.	0.	0.	0.	0.	75.	-1090.	-31.	0.	0.	-225.	0.	0.	0.	1221.	0.	0.	-30488.5	30488.5	0.00
35	29135.	0.	-29081.	7.	0.	-10.	0.	0.	0.	0.	0.	76.	-1091.	-31.	0.	0.	-226.	0.	0.	0.	1220.	0.	0.	-30438.5	30438.5	-0.01
36	29081.	0.	-28963.	10.	0.	-5.	0.	0.	0.	0.	0.	6.	-525.	-13.	0.	0.	-77.	0.	0.	0.	486.	0.	0.	-29582.6	29582.6	0.00
37	28963.	0.	-28823.	5.	0.	-5.	0.	0.	0.	0.	0.	6.	-524.	-13.	0.	0.	-77.	0.	0.	0.	468.	0.	0.	-29441.6	29441.6	0.00
38	28823.	0.	-28666.	5.	0.	-6.	0.	0.	0.	0.	0.	7.	-524.	-13.	0.	0.	-76.	0.	0.	0.	449.	0.	0.	-29284.0	29284.0	0.00
39	28666.	0.	-28492.	6.	0.	-6.	0.	0.	0.	0.	0.	7.	-523.	-13.	0.	0.	-76.	0.	0.	0.	431.	0.	0.	-29109.8	29109.8	-0.01
40	28492.	0.	-28302.	6.	0.	-7.	0.	0.	0.	0.	0.	8.	-522.	-13.	0.	0.	-76.	0.	0.	0.	413.	0.	0.	-28919.2	28919.2	-0.01
41	28302.	0.	-28096.	7.	0.	-7.	0.	0.	0.	0.	0.	8.	-521.	-12.	0.	0.	-76.	0.	0.	0.	395.	0.	0.	-28712.2	28712.2	0.00
42	28096.	0.	-27873.	7.	0.	-8.	0.	0.	0.	0.	0.	9.	-520.	-12.	0.	0.	-75.	0.	0.	0.	377.	0.	0.	-28489.0	28489.0	-0.01
43	27873.	0.	-27634.	8.	0.	-8.	0.	0.	0.	0.	0.	9.	-520.	-12.	0.	0.	-75.	0.	0.	0.	360.	0.	0.	-28249.7	28249.7	0.00
44	27634.	0.	-27380.	8.	0.	-9.	0.	0.	0.	0.	0.	10.	-519.	-12.	0.	0.	-75.	0.	0.	0.	342.	0.	0.	-27994.3	27994.3	0.00
45	27380.	0.	-27109.	9.	0.	-9.	0.	0.	0.	0.	0.	10.	-518.	-12.	0.	0.	-75.	0.	0.	0.	324.	0.	0.	-27723.1	27723.0	-0.01
46	27109.	0.	-26822.	9.	0.	-10.	0.	0.	0.	0.	0.	11.	-517.	-12.	0.	0.	-74.	0.	0.	0.	307.	0.	0.	-27436.0	27436.0	0.00
47	26822.	0.	-26520.	10.	0.	-10.	0.	0.	0.	0.	0.	12.	-516.	-12.	0.	0.	-74.	0.	0.	0.	289.	0.	0.	-27133.2	27133.2	0.00
48	26520.	0.	-26203.	10.	0.	-11.	0.	0.	0.	0.	0.	12.	-516.	-12.	0.	0.	-74.	0.	0.	0.	272.	0.	0.	-26814.8	26814.8	0.00
49	26203.	0.	-25869.	11.	0.	-11.	0.	0.	0.	0.	0.	13.	-515.	-12.	0.	0.	-74.	0.	0.	0.	254.	0.	0.	-26481.0	26481.0	0.00
50	25869.	0.	-25521.	11.	0.	-12.	0.	0.	0.	0.	0.	14.	-514.	-12.	0.	0.	-73.	0.	0.	0.	237.	0.	0.	-26131.8	26131.8	0.00
51	25521.	0.	-25157.	12.	0.	-12.	0.	0.	0.	0.	0.	15.	-513.	-12.	0.	0.	-73.	0.	0.	0.	220.	0.	0.	-25767.2	25767.2	0.00
52	25157.	0.	-24778.	12.	0.	-13.	0.	0.	0.	0.	0.	16.	-513.	-12.	0.	0.	-73.	0.	0.	0.	203.	0.	0.	-25387.6	25387.6	0.00
53	24778.	0.	-24383.	13.	0.	-13.	0.	0.	0.	0.	0.	17.	-512.	-11.	0.	0.	-73.	0.	0.	0.	186.	0.	0.	-24992.8	24992.8	0.00
54	24383.	0.	-23973.	13.	0.	-16.	0.	0.	0.	0.	0.	17.	-511.	-11.	0.	0.	-73.	0.	0.	0.	169.	0.	0.	-24583.1	24583.1	0.00
55	23973.	0.	-23494.	16.	0.	-71.	0.	0.	0.	0.	0.	19.	-511.	-11.	0.	0.	-72.	0.	0.	0.	152.	0.	0.	-24158.6	24158.6	0.00
98	23494.	982.	-23962.	71.	-291.	-4.	0.	0.	0.	0.	0.	22.	-355.	-8.	0.	0.	-59.	0.	0.	0.	111.	0.	0.	-24678.3	24678.3	0.00
99	23962.	0.	-23679.	4.	0.	-3.	0.	0.	0.	0.	0.	22.	-355.	-8.	0.	0.	-59.	0.	0.	0.	118.	0.	0.	-24104.9	24104.9	0.00
100	23679.	0.	-23405.	3.	0.	-3.	0.	0.	0.	0.	0.	22.	-355.	-8.	0.	0.	-59.	0.	0.	0.	125.	0.	0.	-23830.3	23830.3	0.00
101	23405.	0.	-23138.	3.	0.	-3.	0.	0.	0.	0.	0.	23.	-355.	-8.	0.	0.	-59.	0.	0.	0.	132.	0.	0.	-23563.2	23563.2	0.01

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

IOR	UPMN ADV	UPTR ADV	LOWR DISP	UPMN DISP	UPTR DISP	LOWR IN	INCR OUT	INCR IN	NONP IN	WSLD OUT	WITH IN	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
102	23138.	0.	-22879.	3.	0.	-3.	0.	0.	0.	0.	23.	-355.	-8.	0.	0.	-59.	0.	0.	0.	139.	0.	0.	-23303.7	23303.7	0.00
103	22879.	0.	-22627.	3.	0.	-3.	0.	0.	0.	0.	24.	-355.	-8.	0.	0.	-59.	0.	0.	0.	146.	0.	0.	-23051.6	23051.6	0.00
104	22627.	0.	-22382.	3.	0.	-3.	0.	0.	0.	0.	24.	-355.	-8.	0.	0.	-59.	0.	0.	0.	153.	0.	0.	-22807.0	22807.0	0.00
105	22382.	0.	-22145.	3.	0.	-3.	0.	0.	0.	0.	24.	-356.	-8.	0.	0.	-59.	0.	0.	0.	160.	0.	0.	-22569.8	22569.8	0.00
106	22145.	0.	-21915.	3.	0.	-3.	0.	0.	0.	0.	25.	-356.	-8.	0.	0.	-59.	0.	0.	0.	167.	0.	0.	-22340.1	22340.1	0.00
107	21915.	0.	-21693.	3.	0.	-3.	0.	0.	0.	0.	25.	-356.	-8.	0.	0.	-59.	0.	0.	0.	174.	0.	0.	-22117.8	22117.8	0.00
108	21693.	0.	-21478.	3.	0.	-3.	0.	0.	0.	0.	26.	-356.	-8.	0.	0.	-59.	0.	0.	0.	182.	0.	0.	-21903.0	21903.0	0.00
109	21478.	0.	-21271.	3.	0.	-3.	0.	0.	0.	0.	26.	-356.	-8.	0.	0.	-59.	0.	0.	0.	189.	0.	0.	-21695.5	21695.5	0.00
110	21271.	0.	-21071.	3.	0.	-2.	0.	0.	0.	0.	26.	-356.	-8.	0.	0.	-59.	0.	0.	0.	196.	0.	0.	-21495.4	21495.4	0.00
111	21071.	0.	-20878.	2.	0.	-2.	0.	0.	0.	0.	26.	-356.	-8.	0.	0.	-59.	0.	0.	0.	203.	0.	0.	-21302.7	21302.7	0.00
112	20878.	0.	-20693.	2.	0.	-2.	0.	0.	0.	0.	27.	-356.	-8.	0.	0.	-59.	0.	0.	0.	210.	0.	0.	-21117.4	21117.4	0.01
113	20693.	0.	-20515.	2.	0.	-2.	0.	0.	0.	0.	27.	-356.	-8.	0.	0.	-59.	0.	0.	0.	217.	0.	0.	-20939.4	20939.4	0.00
114	20515.	0.	-20345.	2.	0.	-2.	0.	0.	0.	0.	27.	-356.	-8.	0.	0.	-59.	0.	0.	0.	224.	0.	0.	-20768.8	20768.8	0.00
115	20345.	0.	-20182.	2.	0.	-2.	0.	0.	0.	0.	28.	-356.	-8.	0.	0.	-59.	0.	0.	0.	231.	0.	0.	-20605.4	20605.4	0.01
116	20182.	0.	-20026.	2.	0.	-2.	0.	0.	0.	0.	28.	-356.	-8.	0.	0.	-59.	0.	0.	0.	238.	0.	0.	-20449.4	20449.4	0.00
117	20026.	0.	-19877.	2.	0.	-2.	0.	0.	0.	0.	28.	-356.	-8.	0.	0.	-59.	0.	0.	0.	245.	0.	0.	-20300.7	20300.7	0.00
118	19877.	0.	-19736.	2.	0.	-2.	0.	0.	0.	0.	28.	-356.	-7.	0.	0.	-59.	0.	0.	0.	252.	0.	0.	-20159.2	20159.2	0.00
119	19736.	0.	-19602.	2.	0.	-2.	0.	0.	0.	0.	28.	-356.	-7.	0.	0.	-59.	0.	0.	0.	259.	0.	0.	-20025.0	20025.0	0.00
120	19602.	0.	-19475.	2.	0.	-2.	0.	0.	0.	0.	29.	-356.	-7.	0.	0.	-59.	0.	0.	0.	266.	0.	0.	-19898.1	19898.1	0.00
121	19475.	0.	-19355.	2.	0.	-1.	0.	0.	0.	0.	29.	-356.	-7.	0.	0.	-59.	0.	0.	0.	273.	0.	0.	-19778.4	19778.4	0.01
122	19355.	0.	-19243.	1.	0.	-1.	0.	0.	0.	0.	29.	-356.	-7.	0.	0.	-59.	0.	0.	0.	280.	0.	0.	-19665.9	19665.9	0.00
123	19243.	0.	-19137.	1.	0.	-1.	0.	0.	0.	0.	29.	-356.	-7.	0.	0.	-59.	0.	0.	0.	287.	0.	0.	-19560.6	19560.6	0.01
124	19137.	0.	-19039.	1.	0.	-1.	0.	0.	0.	0.	29.	-356.	-7.	0.	0.	-59.	0.	0.	0.	295.	0.	0.	-19462.5	19462.5	0.01
125	19039.	0.	-18949.	1.	0.	-1.	0.	0.	0.	0.	30.	-356.	-7.	0.	0.	-59.	0.	0.	0.	302.	0.	0.	-19371.6	19371.6	0.00
126	18949.	0.	-18865.	1.	0.	-1.	0.	0.	0.	0.	30.	-356.	-7.	0.	0.	-58.	0.	0.	0.	309.	0.	0.	-19287.9	19287.9	0.00
127	18865.	0.	-18788.	1.	0.	-1.	0.	0.	0.	0.	30.	-356.	-7.	0.	0.	-58.	0.	0.	0.	316.	0.	0.	-19211.3	19211.3	0.00
128	18788.	0.	-18719.	1.	0.	-1.	0.	0.	0.	0.	30.	-356.	-7.	0.	0.	-58.	0.	0.	0.	323.	0.	0.	-19141.8	19141.8	0.00
129	18719.	0.	-18657.	1.	0.	-1.	0.	0.	0.	0.	30.	-356.	-7.	0.	0.	-58.	0.	0.	0.	330.	0.	0.	-19079.5	19079.5	0.00
130	18657.	0.	-18609.	1.	0.	7.	0.	0.	0.	0.	30.	-356.	-7.	0.	0.	-58.	0.	0.	0.	337.	0.	0.	-19031.2	19031.2	0.00
131	18609.	0.	-19160.	-7.	0.	604.	0.	0.	0.	0.	0.	29.	-354.	-8.	0.	0.	-58.	0.	0.	0.	344.	0.	0.	-19586.1	19586.1	0.00
132	19160.	0.	-38718.	-604.	0.	36.	0.	0.	0.	19765.	0.	407.	-1640.	-55.	0.	0.	-635.	0.	0.	0.	2284.	0.	0.	-41651.5	41651.5	0.00
133	38718.	0.	-39043.	-36.	0.	33.	0.	0.	0.	0.	0.	399.	-1666.	-55.	0.	0.	-635.	0.	0.	0.	2286.	0.	0.	-41435.7	41435.7	0.00
134	39043.	0.	-39338.	-33.	0.	30.	0.	0.	0.	0.	0.	393.	-1692.	-55.	0.	0.	-635.	0.	0.	0.	2288.	0.	0.	-41753.3	41753.3	0.00
135	39338.	0.	-39604.	-30.	0.	26.	0.	0.	0.	0.	0.	387.	-1717.	-56.	0.	0.	-635.	0.	0.	0.	2290.	0.	0.	-42041.1	42041.2	0.00
136	39604.	0.	-39841.	-26.	0.	23.	0.	0.	0.	0.	0.	381.	-1742.	-56.	0.	0.	-635.	0.	0.	0.	2291.	0.	0.	-42300.3	42300.3	-0.01
137	39841.	0.	-40050.	-23.	0.	20.	0.	0.	0.	0.	0.	377.	-1767.	-56.	0.	0.	-634.	0.	0.	0.	2293.	0.	0.	-42531.5	42531.5	-0.01
138	40050.	0.	-40233.	-20.	0.	17.	0.	0.	0.	0.	0.	373.	-1792.	-56.	0.	0.	-634.	0.	0.	0.	2295.	0.	0.	-42735.6	42735.6	0.01
139	40233.	0.	-40389.	-17.	0.	15.	0.	0.	0.	0.	0.	369.	-1816.	-56.	0.	0.	-634.	0.	0.	0.	2297.	0.	0.	-42913.6	42913.6	0.00
140	40389.	0.	-40521.	-15.	0.	12.	0.	0.	0.	1.	0.	366.	-1841.	-57.	0.	0.	-634.	0.	0.	0.	2299.	0.	0.	-43066.8	43066.8	0.00
141	40521.	0.	-40627.	-12.	0.	9.	0.	0.	0.	0.	0.	364.	-1865.	-57.	0.	0.	-634.	0.	0.	0.	2301.	0.	0.	-43194.7	43194.7	-0.01
142	40627.	0.	-40710.	-9.	0.	7.	0.	0.	0.	0.	0.	362.	-1889.	-57.	0.	0.	-634.	0.	0.	0.	2303.	0.	0.	-43298.8	43298.8	0.00
143	40710.	0.	-40770.	-7.	0.	4.	0.	0.	0.	0.	0.	361.	-1912.	-57.	0.	0.	-634.	0.	0.	0.	2305.	0.	0.	-43379.8	43379.8	-0.01
144	40770.	0.	-40808.	-4.	0.	2.	0.	0.	0.	0.	0.	360.	-1935.	-57.	0.	0.	-633.	0.	0.	0.	2307.	0.	0.	-43438.6	43438.6	0.00
145	40808.	0.	-40825.	-2.	0.	0.	0.	0.	0.	0.	0.	360.	-1959.	-58.	0.	0.	-633.	0.	0.	0.	2309.	0.	0.	-43476.2	43476.2	0.00
146	40825.	0.	-40820.	0.	0.	-3.	0.	0.	0.	0.	0.	360.	-1981.	-58.	0.	0.	-633.	0.	0.	0.	2310.	0.	0.	-43495.1	43495.1	-0.01
147	40820.	0.	-40796.	3.	0.	-5.	0.	0.	0.	0.	0.	360.	-2004.	-58.	0.	0.	-633.	0.	0.	0.	2312.	0.	0.	-43495.5	43495.5	0.00
148	40796.	0.	-40752.	5.	0.	-7.	0.	0.	0.	0.	0.	361.	-2027.	-58.	0.	0.	-633.	0.	0.	0.	2314.	0.	0.	-43476.2	43476.2	0.00
149	40752.	0.	-40689.	7.	0.	-9.	0.	0.	0.	0.	0.	363.	-2049.	-58.	0.	0.	-633.	0.	0.	0.	2316.	0.	0.	-43438.0	43438.0	0.00

150	40689.	0.	-40609.	9.	0.	-11.	0.	0.	0.	0.	0.	365.	-2071.	-58.	0.	0.	-632.	0.	0.	0.	2318.	0.	0.	-43381.2	43381.2	0.00
151	40609.	0.	-40510.	11.	0.	-13.	0.	0.	0.	0.	0.	367.	-2093.	-58.	0.	0.	-632.	0.	0.	0.	2320.	0.	0.	-43306.5	43306.5	0.00
152	40510.	0.	-40395.	13.	0.	-15.	0.	0.	0.	0.	0.	370.	-2114.	-59.	0.	0.	-632.	0.	0.	0.	2322.	0.	0.	-43214.7	43214.7	0.00
153	40395.	0.	-40264.	15.	0.	-16.	0.	0.	0.	0.	0.	373.	-2136.	-59.	0.	0.	-632.	0.	0.	0.	2324.	0.	0.	-43106.2	43106.2	0.00
154	40264.	0.	-40116.	16.	0.	-18.	0.	0.	0.	0.	0.	376.	-2157.	-59.	0.	0.	-632.	0.	0.	0.	2325.	0.	0.	-42981.7	42981.7	0.00
155	40116.	0.	-39954.	18.	0.	-20.	0.	0.	0.	0.	0.	380.	-2178.	-59.	0.	0.	-632.	0.	0.	0.	2327.	0.	0.	-42841.7	42841.6	-0.01
156	39954.	0.	-39776.	20.	0.	-21.	0.	0.	0.	0.	0.	384.	-2199.	-59.	0.	0.	-631.	0.	0.	0.	2329.	0.	0.	-42686.7	42686.7	0.00
157	39776.	0.	-39585.	21.	0.	-23.	0.	0.	0.	0.	0.	389.	-2219.	-59.	0.	0.	-631.	0.	0.	0.	2331.	0.	0.	-42517.3	42517.3	0.00
158	39585.	0.	-39380.	23.	0.	-24.	0.	0.	0.	0.	0.	393.	-2240.	-59.	0.	0.	-631.	0.	0.	0.	2333.	0.	0.	-42333.9	42333.9	0.01
159	39380.	0.	-39161.	24.	0.	-26.	0.	0.	0.	0.	0.	398.	-2260.	-59.	0.	0.	-631.	0.	0.	0.	2335.	0.	0.	-42137.2	42137.2	0.00
160	39161.	0.	-38930.	26.	0.	-27.	0.	0.	0.	0.	0.	404.	-2280.	-59.	0.	0.	-631.	0.	0.	0.	2337.	0.	0.	-41927.5	41927.5	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

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 BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
161	38930.	0.	-38687.	27.	0.	-28.	0.	0.	0.	0.	0.	409.	-2300.	-59.	0.	0.	-631.	0.	0.	0.	2339.	0.	0.	-41705.3	41705.3	-0.01
162	38687.	0.	-38432.	28.	0.	-30.	0.	0.	0.	0.	0.	415.	-2319.	-59.	0.	0.	-630.	0.	0.	0.	2341.	0.	0.	-41471.2	41471.2	0.01
163	38432.	0.	-38166.	30.	0.	-31.	0.	0.	0.	0.	0.	421.	-2339.	-60.	0.	0.	-630.	0.	0.	0.	2342.	0.	0.	-41225.5	41225.5	0.00
164	38166.	0.	-37889.	31.	0.	-32.	0.	0.	0.	0.	0.	428.	-2358.	-60.	0.	0.	-630.	0.	0.	0.	2344.	0.	0.	-40968.7	40968.7	0.00
165	37889.	0.	-37601.	32.	0.	-33.	0.	0.	0.	0.	0.	434.	-2377.	-60.	0.	0.	-630.	0.	0.	0.	2346.	0.	0.	-40701.2	40701.2	0.01
166	37601.	0.	-37304.	33.	0.	-34.	0.	0.	0.	0.	0.	441.	-2396.	-60.	0.	0.	-630.	0.	0.	0.	2348.	0.	0.	-40423.5	40423.5	0.00
167	37304.	0.	-36996.	34.	0.	-35.	0.	0.	0.	0.	0.	448.	-2415.	-60.	0.	0.	-630.	0.	0.	0.	2350.	0.	0.	-40135.9	40135.9	0.00
168	36996.	0.	-36680.	35.	0.	-36.	0.	0.	0.	0.	0.	455.	-2433.	-60.	0.	0.	-629.	0.	0.	0.	2352.	0.	0.	-39838.8	39838.8	0.01
169	36680.	0.	-36354.	36.	0.	-37.	0.	0.	0.	0.	0.	463.	-2452.	-60.	0.	0.	-629.	0.	0.	0.	2354.	0.	0.	-39532.6	39532.6	0.00
170	36354.	0.	-36021.	37.	0.	-38.	0.	0.	0.	0.	0.	470.	-2470.	-60.	0.	0.	-629.	0.	0.	0.	2356.	0.	0.	-39217.7	39217.7	0.00
171	36021.	0.	-35679.	38.	0.	-39.	0.	0.	0.	0.	0.	478.	-2488.	-60.	0.	0.	-629.	0.	0.	0.	2357.	0.	0.	-38894.5	38894.5	0.00
172	35679.	0.	-35329.	39.	0.	-40.	0.	0.	0.	0.	0.	486.	-2506.	-60.	0.	0.	-629.	0.	0.	0.	2359.	0.	0.	-38563.2	38563.2	0.00
173	35329.	0.	-34972.	40.	0.	-41.	0.	0.	0.	0.	0.	494.	-2523.	-60.	0.	0.	-629.	0.	0.	0.	2361.	0.	0.	-38224.3	38224.3	0.00
174	34972.	0.	-34607.	41.	0.	-41.	0.	0.	0.	0.	0.	503.	-2541.	-60.	0.	0.	-628.	0.	0.	0.	2363.	0.	0.	-37878.1	37878.1	0.00
175	34607.	0.	-34236.	41.	0.	-42.	0.	0.	0.	0.	0.	511.	-2558.	-60.	0.	0.	-628.	0.	0.	0.	2365.	0.	0.	-37524.8	37524.8	0.01
176	34236.	0.	-33858.	42.	0.	-43.	0.	0.	0.	0.	0.	520.	-2575.	-60.	0.	0.	-628.	0.	0.	0.	2367.	0.	0.	-37164.9	37164.9	0.00
177	33858.	0.	-33475.	43.	0.	-44.	0.	0.	0.	0.	0.	529.	-2592.	-60.	0.	0.	-628.	0.	0.	0.	2369.	0.	0.	-36798.6	36798.6	0.00
178	33475.	0.	-33083.	44.	0.	-46.	0.	0.	0.	0.	0.	538.	-2609.	-60.	0.	0.	-628.	0.	0.	0.	2370.	0.	0.	-36426.3	36426.3	0.00
179	33083.	0.	-32672.	46.	0.	-65.	0.	0.	0.	0.	0.	547.	-2624.	-60.	0.	0.	-628.	0.	0.	0.	2372.	0.	0.	-36048.7	36048.7	0.00
180	32672.	0.	-32093.	65.	0.	-263.	0.	0.	0.	0.	0.	560.	-2627.	-60.	0.	0.	-628.	0.	0.	0.	2374.	0.	0.	-35671.1	35671.1	0.01
181	32093.	0.	-31031.	263.	0.	-306.	0.	0.	0.	0.	0.	1264.	-8844.	-207.	0.	0.	-1357.	0.	0.	0.	8125.	0.	0.	-41745.3	41745.3	0.01
182	31031.	0.	-30234.	306.	0.	-249.	0.	0.	0.	0.	0.	1303.	-8680.	-208.	0.	0.	-1357.	0.	0.	0.	8088.	0.	0.	-40727.8	40727.8	0.03
183	30234.	0.	-29586.	249.	0.	-196.	0.	0.	0.	0.	0.	1335.	-8521.	-209.	0.	0.	-1357.	0.	0.	0.	8051.	0.	0.	-39868.7	39868.7	0.03
184	29586.	0.	-29076.	196.	0.	-147.	0.	0.	0.	0.	0.	1360.	-8366.	-210.	0.	0.	-1357.	0.	0.	0.	8013.	0.	0.	-39156.0	39156.1	0.03
185	29076.	0.	-28692.	147.	0.	-103.	0.	0.	0.	0.	0.	1379.	-8216.	-211.	0.	0.	-1357.	0.	0.	0.	7976.	0.	0.	-38578.7	38578.7	0.03
186	28692.	0.	-28424.	103.	0.	-62.	0.	0.	0.	0.	0.	1392.	-8071.	-212.	0.	0.	-1357.	0.	0.	0.	7939.	0.	0.	-38126.0	38126.0	0.03
187	28424.	0.	-28263.	62.	0.	-24.	0.	0.	0.	0.	0.	1400.	-7930.	-213.	0.	0.	-1357.	0.	0.	0.	7902.	0.	0.	-37788.2	37788.2	0.04
188	28263.	0.	-28200.	24.	0.	10.	0.	0.	0.	0.	0.	1403.	-7794.	-215.	0.	0.	-1357.	0.	0.	0.	7865.	0.	0.	-37565.9	37565.9	0.04
189	28200.	0.	-28227.	-10.	0.	41.	0.	0.	0.	0.	0.	1402.	-7662.	-216.	0.	0.	-1357.	0.	0.	0.	7828.	0.	0.	-37471.5	37471.5	0.04
190	28227.	0.	-28335.	-41.	0.	70.	0.	0.	0.	0.	0.	1397.	-7533.	-218.	0.	0.	-1356.	0.	0.	0.	7790.	0.	0.	-37483.9	37483.9	0.03
191	28335.	0.	-28516.	-70.	0.	96.	0.	0.	0.	0.	0.	1388.	-7409.	-220.	0.	0.	-1356.	0.	0.	0.	7753.	0.	0.	-37571.4	37571.4	0.04
192	28516.	0.	-28765.	-96.	0.	119.	0.	0.	0.	0.	0.	1376.	-7288.	-221.	0.	0.	-1356.	0.	0.	0.	7716.	0.	0.	-37727.1	37727.1	0.03
193	28765.	0.	-29075.	-119.	0.	140.	0.	0.	0.	0.	0.	1361.	-7172.	-223.	0.	0.	-1356.	0.	0.	0.	7679.	0.	0.	-37944.7	37944.7	0.03
194	29075.	0.	-29439.	-140.	0.	159.	0.	0.	0.	0.	0.	1343.	-7058.	-225.	0.	0.	-1356.	0.	0.	0.	7642.	0.	0.	-38217.9	38218.0	0.03
195	29439.	0.	-29852.	-159.	0.	175.	0.	0.	0.	0.	0.	1322.	-6948.	-227.	0.	0.	-1356.	0.	0.	0.	7605.	0.	0.	-38541.3	38541.3	0.03
196	29852.	0.	-30308.	-175.	0.	190.	0.	0.	0.	0.	0.	1300.	-6842.	-228.	0.	0.	-1356.	0.	0.	0.	7568.	0.	0.	-38909.4	38909.5	0.02

197	30308.	0.	-30803.	-190.	0.	203.	0.	0.	0.	0.	0.	1276.	-6738.	-230.	0.	0.-1356.	0.	0.	0. 7530.	0.	0.	-39317.5	39317.5	0.03
198	30803.	0.	-31332.	-203.	0.	214.	0.	0.	0.	0.	0.	1250.	-6638.	-231.	0.	0.-1356.	0.	0.	0. 7493.	0.	0.	-39760.7	39760.7	0.02
199	31332.	0.	-31891.	-214.	0.	224.	0.	0.	0.	0.	0.	1222.	-6541.	-233.	0.	0.-1356.	0.	0.	0. 7456.	0.	0.	-40234.9	40234.9	0.02
200	31891.	0.	-32475.	-224.	0.	233.	0.	0.	0.	0.	0.	1193.	-6447.	-234.	0.	0.-1356.	0.	0.	0. 7419.	0.	0.	-40736.0	40736.0	0.02
201	32475.	0.	-33081.	-233.	0.	240.	0.	0.	0.	0.	0.	1164.	-6356.	-235.	0.	0.-1356.	0.	0.	0. 7382.	0.	0.	-41260.4	41260.4	0.01
202	33081.	0.	-33705.	-240.	0.	246.	0.	0.	0.	0.	0.	1133.	-6267.	-237.	0.	0.-1356.	0.	0.	0. 7345.	0.	0.	-41804.3	41804.4	0.02
203	33705.	0.	-34345.	-246.	0.	250.	0.	0.	0.	0.	0.	1102.	-6181.	-238.	0.	0.-1355.	0.	0.	0. 7308.	0.	0.	-42364.8	42364.8	0.01
204	34345.	0.	-34996.	-250.	0.	254.	0.	0.	0.	0.	0.	1070.	-6098.	-239.	0.	0.-1355.	0.	0.	0. 7271.	0.	0.	-42938.7	42938.7	0.00
205	34996.	0.	-35657.	-254.	0.	256.	0.	0.	0.	0.	0.	1037.	-6017.	-240.	0.	0.-1355.	0.	0.	0. 7234.	0.	0.	-43523.2	43523.3	0.01
206	35657.	0.	-36325.	-256.	0.	258.	0.	0.	0.	0.	0.	1004.	-5939.	-240.	0.	0.-1355.	0.	0.	0. 7196.	0.	0.	-44115.8	44115.8	0.01
207	36325.	0.	-36996.	-258.	0.	259.	0.	0.	0.	0.	0.	971.	-5863.	-241.	0.	0.-1355.	0.	0.	0. 7159.	0.	0.	-44713.9	44714.0	0.01
208	36996.	0.	-37670.	-259.	0.	259.	0.	0.	0.	1.	0.	938.	-5790.	-242.	0.	0.-1355.	0.	0.	0. 7122.	0.	0.	-45315.9	45315.9	0.01
209	37670.	0.	-38344.	-259.	0.	258.	0.	0.	0.	0.	0.	905.	-5719.	-242.	0.	0.-1355.	0.	0.	0. 7085.	0.	0.	-45918.6	45918.6	0.00
210	38344.	0.	-39016.	-258.	0.	256.	0.	0.	0.	0.	0.	872.	-5649.	-243.	0.	0.-1355.	0.	0.	0. 7048.	0.	0.	-46520.7	46520.7	0.00
211	39016.	0.	-39684.	-256.	0.	254.	0.	0.	0.	0.	0.	839.	-5582.	-243.	0.	0.-1355.	0.	0.	0. 7011.	0.	0.	-47120.4	47120.4	0.00
212	39684.	0.	-40346.	-254.	0.	252.	0.	0.	0.	0.	0.	807.	-5517.	-243.	0.	0.-1355.	0.	0.	0. 6974.	0.	0.	-47716.0	47716.0	-0.01
213	40346.	0.	-41002.	-252.	0.	249.	0.	0.	0.	0.	0.	775.	-5454.	-243.	0.	0.-1355.	0.	0.	0. 6937.	0.	0.	-48306.1	48306.1	0.00
214	41002.	0.	-41649.	-249.	0.	245.	0.	0.	0.	0.	0.	743.	-5393.	-244.	0.	0.-1355.	0.	0.	0. 6900.	0.	0.	-48889.1	48889.1	-0.01
215	41649.	0.	-42287.	-245.	0.	241.	0.	0.	0.	0.	0.	712.	-5334.	-244.	0.	0.-1355.	0.	0.	0. 6863.	0.	0.	-49463.9	49463.9	-0.01
216	42287.	0.	-42914.	-241.	0.	236.	0.	0.	0.	0.	0.	681.	-5277.	-244.	0.	0.-1355.	0.	0.	0. 6826.	0.	0.	-50029.3	50029.3	0.00
217	42914.	0.	-43529.	-236.	0.	231.	0.	0.	0.	0.	0.	651.	-5221.	-243.	0.	0.-1354.	0.	0.	0. 6788.	0.	0.	-50584.2	50584.2	-0.01
218	43529.	0.	-44132.	-231.	0.	226.	0.	0.	0.	0.	0.	621.	-5167.	-243.	0.	0.-1354.	0.	0.	0. 6751.	0.	0.	-51127.6	51127.6	0.00
219	44132.	0.	-44721.	-226.	0.	221.	0.	0.	0.	0.	0.	592.	-5115.	-243.	0.	0.-1354.	0.	0.	0. 6714.	0.	0.	-51658.6	51658.6	-0.01

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	INCR IN	NONP IN	WSLD OUT	WITH IN	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
220	44721.	0.	-45295.	-221.	0.	215.	0.	0.	0.	0.	0.	564.	-5064.	-243.	0.	0.-1354.	0.	0.	0. 6677.	0.	0.	-52176.5	52176.5	-0.01
221	45295.	0.	-45855.	-215.	0.	209.	0.	0.	0.	0.	0.	536.	-5015.	-242.	0.	0.-1354.	0.	0.	0. 6640.	0.	0.	-52680.4	52680.4	-0.01
222	45855.	0.	-46398.	-209.	0.	202.	0.	0.	0.	0.	0.	510.	-4967.	-242.	0.	0.-1354.	0.	0.	0. 6603.	0.	0.	-53169.8	53169.8	-0.01
223	46398.	0.	-46925.	-202.	0.	196.	0.	0.	0.	0.	0.	484.	-4921.	-241.	0.	0.-1354.	0.	0.	0. 6566.	0.	0.	-53644.0	53644.0	-0.02
224	46925.	0.	-47436.	-196.	0.	189.	0.	0.	0.	0.	0.	459.	-4876.	-241.	0.	0.-1354.	0.	0.	0. 6529.	0.	0.	-54102.5	54102.5	-0.01
225	47436.	0.	-47929.	-189.	0.	183.	0.	0.	0.	0.	0.	435.	-4832.	-240.	0.	0.-1354.	0.	0.	0. 6492.	0.	0.	-54544.8	54544.8	-0.02
226	47929.	0.	-48404.	-183.	0.	176.	0.	0.	0.	0.	0.	411.	-4790.	-240.	0.	0.-1354.	0.	0.	0. 6455.	0.	0.	-54970.5	54970.5	-0.02
227	48404.	0.	-48861.	-176.	0.	169.	0.	0.	0.	0.	0.	389.	-4749.	-239.	0.	0.-1354.	0.	0.	0. 6418.	0.	0.	-55379.4	55379.4	-0.02
228	48861.	0.	-49300.	-169.	0.	161.	0.	0.	0.	0.	0.	367.	-4710.	-239.	0.	0.-1354.	0.	0.	0. 6381.	0.	0.	-55771.0	55770.9	-0.02
229	49300.	0.	-49721.	-161.	0.	154.	0.	0.	0.	0.	0.	347.	-4671.	-238.	0.	0.-1354.	0.	0.	0. 6344.	0.	0.	-56145.1	56145.1	-0.01
230	49721.	0.	-50122.	-154.	0.	147.	0.	0.	0.	0.	0.	327.	-4634.	-237.	0.	0.-1353.	0.	0.	0. 6307.	0.	0.	-56501.4	56501.4	-0.03
231	50122.	0.	-50505.	-147.	0.	140.	0.	0.	0.	0.	0.	308.	-4598.	-237.	0.	0.-1353.	0.	0.	0. 6270.	0.	0.	-56839.8	56839.8	-0.01
232	50505.	0.	-50869.	-140.	0.	132.	0.	0.	0.	0.	0.	290.	-4563.	-236.	0.	0.-1353.	0.	0.	0. 6233.	0.	0.	-57160.2	57160.2	-0.02
233	50869.	0.	-51213.	-132.	0.	125.	0.	0.	0.	0.	0.	273.	-4529.	-235.	0.	0.-1353.	0.	0.	0. 6196.	0.	0.	-57462.5	57462.4	-0.02
234	51213.	0.	-51538.	-125.	0.	117.	0.	0.	0.	0.	0.	257.	-4496.	-235.	0.	0.-1353.	0.	0.	0. 6159.	0.	0.	-57746.5	57746.4	-0.04
235	51538.	0.	-51844.	-117.	0.	110.	0.	0.	0.	0.	0.	242.	-4464.	-234.	0.	0.-1353.	0.	0.	0. 6122.	0.	0.	-58012.2	58012.2	-0.02
236	51844.	0.	-52131.	-110.	0.	103.	0.	0.	0.	0.	0.	228.	-4433.	-233.	0.	0.-1353.	0.	0.	0. 6085.	0.	0.	-58259.7	58259.6	-0.02
237	52131.	0.	-52398.	-103.	0.	95.	0.	0.	0.	0.	0.	215.	-4403.	-232.	0.	0.-1353.	0.	0.	0. 6048.	0.	0.	-58488.7	58488.7	-0.03
238	52398.	0.	-52646.	-95.	0.	88.	0.	0.	0.	0.	0.	203.	-4374.	-232.	0.	0.-1353.	0.	0.	0. 6011.	0.	0.	-58699.6	58699.6	-0.02
239	52646.	0.	-52875.	-88.	0.	81.	0.	0.	0.	0.	0.	192.	-4346.	-231.	0.	0.-1353.	0.	0.	0. 5974.	0.	0.	-58892.3	58892.3	-0.02
240	52875.	0.	-53085.	-81.	0.	73.	0.	0.	0.	0.	0.	182.	-4318.	-230.	0.	0.-1353.	0.	0.	0. 5937.	0.	0.	-59066.9	59066.8	-0.02
241	53085.	0.	-53277.	-73.	0.	66.	0.	0.	0.	0.	0.	172.	-4292.	-229.	0.	0.-1353.	0.	0.	0. 5900.	0.	0.	-59223.4	59223.4	-0.02
242	53277.	0.	-53449.	-66.	0.	59.	0.	0.	0.	0.	0.	164.	-4266.	-228.	0.	0.-1353.	0.	0.	0. 5863.	0.	0.	-59362.0	59362.0	-0.02
243	53449.	0.	-53603.	-59.	0.	52.	0.	0.	0.	0.	0.	156.	-4241.	-228.	0.	0.-1353.	0.	0.	0. 5826.	0.	0.	-59482.8	59482.8	-0.02

244	53603.	0.	-53738.	-52.	0.	45.	0.	0.	0.	0.	0.	150.	-4217.	-227.	0.	0.	-1352.	0.	0.	0.	5789.	0.	0.	-59586.0	59586.0	-0.02
245	53738.	0.	-53855.	-45.	0.	38.	0.	0.	0.	0.	0.	144.	-4193.	-226.	0.	0.	-1352.	0.	0.	0.	5752.	0.	0.	-59671.7	59671.6	-0.02
246	53855.	0.	-53954.	-38.	0.	31.	0.	0.	0.	0.	0.	139.	-4171.	-225.	0.	0.	-1352.	0.	0.	0.	5715.	0.	0.	-59740.0	59740.0	-0.02
247	53954.	0.	-54035.	-31.	0.	24.	0.	0.	0.	0.	0.	135.	-4149.	-224.	0.	0.	-1352.	0.	0.	0.	5678.	0.	0.	-59791.3	59791.2	-0.02
248	54035.	0.	-54098.	-24.	0.	18.	0.	0.	0.	0.	0.	132.	-4127.	-223.	0.	0.	-1352.	0.	0.	0.	5641.	0.	0.	-59825.6	59825.5	-0.03
249	54098.	0.	-54144.	-18.	0.	11.	0.	0.	0.	0.	0.	130.	-4106.	-223.	0.	0.	-1352.	0.	0.	0.	5604.	0.	0.	-59843.1	59843.1	-0.02
250	54144.	0.	-54173.	-11.	0.	4.	0.	0.	0.	0.	0.	129.	-4086.	-222.	0.	0.	-1352.	0.	0.	0.	5567.	0.	0.	-59844.1	59844.1	-0.03
251	54173.	0.	-54185.	-4.	0.	-2.	0.	0.	0.	0.	0.	128.	-4067.	-221.	0.	0.	-1352.	0.	0.	0.	5530.	0.	0.	-59830.7	59830.7	-0.02
252	54185.	0.	-54179.	2.	0.	-8.	0.	0.	0.	0.	0.	128.	-4048.	-220.	0.	0.	-1352.	0.	0.	0.	5493.	0.	0.	-59807.6	59807.6	-0.03
253	54179.	0.	-54158.	8.	0.	-15.	0.	0.	0.	0.	0.	129.	-4030.	-219.	0.	0.	-1352.	0.	0.	0.	5456.	0.	0.	-59772.9	59772.9	-0.02
254	54158.	0.	-54119.	15.	0.	-21.	0.	0.	0.	0.	0.	131.	-4012.	-219.	0.	0.	-1352.	0.	0.	0.	5419.	0.	0.	-59722.3	59722.3	-0.02
255	54119.	0.	-54065.	21.	0.	-27.	0.	0.	0.	0.	0.	134.	-3995.	-218.	0.	0.	-1352.	0.	0.	0.	5382.	0.	0.	-59656.2	59656.1	-0.02
256	54065.	0.	-53995.	27.	0.	-33.	0.	0.	0.	0.	0.	138.	-3978.	-217.	0.	0.	-1352.	0.	0.	0.	5345.	0.	0.	-59574.6	59574.6	-0.02
257	53995.	0.	-53910.	33.	0.	-39.	0.	0.	0.	0.	0.	142.	-3962.	-216.	0.	0.	-1352.	0.	0.	0.	5308.	0.	0.	-59477.9	59477.9	-0.03
258	53910.	0.	-53809.	39.	0.	-44.	0.	0.	0.	0.	0.	147.	-3946.	-215.	0.	0.	-1351.	0.	0.	0.	5271.	0.	0.	-59366.3	59366.3	-0.02
259	53809.	0.	-53693.	44.	0.	-50.	0.	0.	0.	0.	0.	152.	-3931.	-215.	0.	0.	-1351.	0.	0.	0.	5234.	0.	0.	-59240.1	59240.1	-0.04
260	53693.	0.	-53563.	50.	0.	-56.	0.	0.	0.	0.	0.	159.	-3916.	-214.	0.	0.	-1351.	0.	0.	0.	5197.	0.	0.	-59099.5	59099.5	-0.02
261	53563.	0.	-53418.	56.	0.	-61.	0.	0.	0.	0.	0.	166.	-3902.	-213.	0.	0.	-1351.	0.	0.	0.	5160.	0.	0.	-58944.8	58944.8	-0.03
262	53418.	0.	-53258.	61.	0.	-67.	0.	0.	0.	0.	0.	174.	-3888.	-212.	0.	0.	-1351.	0.	0.	0.	5123.	0.	0.	-58776.2	58776.2	-0.03
263	53258.	0.	-53084.	67.	0.	-73.	0.	0.	0.	0.	0.	183.	-3874.	-212.	0.	0.	-1351.	0.	0.	0.	5086.	0.	0.	-58593.8	58593.8	-0.02
264	53084.	0.	-52901.	73.	0.	-77.	0.	0.	0.	4.	0.	192.	-3862.	-212.	0.	0.	-1351.	0.	0.	0.	5049.	0.	0.	-58401.9	58401.9	-0.01
265	52901.	0.	-52699.	77.	0.	-82.	0.	0.	0.	0.	0.	202.	-3849.	-211.	0.	0.	-1351.	0.	0.	0.	5012.	0.	0.	-58192.0	58192.0	-0.03
266	52699.	0.	-52485.	82.	0.	-87.	0.	0.	0.	0.	0.	212.	-3837.	-210.	0.	0.	-1351.	0.	0.	0.	4975.	0.	0.	-57969.4	57969.3	-0.02
267	52485.	0.	-52258.	87.	0.	-92.	0.	0.	0.	0.	0.	224.	-3825.	-209.	0.	0.	-1351.	0.	0.	0.	4939.	0.	0.	-57734.1	57734.1	-0.03
268	52258.	0.	-52018.	92.	0.	-97.	0.	0.	0.	0.	0.	235.	-3813.	-208.	0.	0.	-1351.	0.	0.	0.	4902.	0.	0.	-57486.6	57486.6	-0.02
269	52018.	0.	-51766.	97.	0.	-101.	0.	0.	0.	0.	0.	248.	-3802.	-207.	0.	0.	-1351.	0.	0.	0.	4865.	0.	0.	-57227.0	57227.0	-0.01
270	51766.	0.	-51501.	101.	0.	-106.	0.	0.	0.	0.	0.	261.	-3791.	-207.	0.	0.	-1351.	0.	0.	0.	4828.	0.	0.	-56955.6	56955.6	-0.01
271	51501.	0.	-51225.	106.	0.	-110.	0.	0.	0.	0.	0.	274.	-3781.	-206.	0.	0.	-1350.	0.	0.	0.	4791.	0.	0.	-56672.6	56672.6	-0.02
272	51225.	0.	-50938.	110.	0.	-115.	0.	0.	0.	0.	0.	289.	-3770.	-205.	0.	0.	-1350.	0.	0.	0.	4754.	0.	0.	-56378.3	56378.2	-0.01
273	50938.	0.	-50639.	115.	0.	-119.	0.	0.	0.	0.	0.	303.	-3760.	-204.	0.	0.	-1350.	0.	0.	0.	4717.	0.	0.	-56072.8	56072.8	-0.02
274	50639.	0.	-50329.	119.	0.	-123.	0.	0.	0.	0.	0.	319.	-3751.	-203.	0.	0.	-1350.	0.	0.	0.	4680.	0.	0.	-55756.5	55756.5	-0.02
275	50329.	0.	-50008.	123.	0.	-127.	0.	0.	0.	0.	0.	334.	-3742.	-203.	0.	0.	-1350.	0.	0.	0.	4643.	0.	0.	-55429.5	55429.5	-0.02
276	50008.	0.	-49676.	127.	0.	-131.	0.	0.	0.	0.	0.	351.	-3733.	-202.	0.	0.	-1350.	0.	0.	0.	4606.	0.	0.	-55092.1	55092.1	-0.02
277	49676.	0.	-49334.	131.	0.	-135.	0.	0.	0.	0.	0.	368.	-3724.	-201.	0.	0.	-1350.	0.	0.	0.	4569.	0.	0.	-54744.6	54744.5	-0.02
278	49334.	0.	-48982.	135.	0.	-139.	0.	0.	0.	0.	0.	385.	-3715.	-200.	0.	0.	-1350.	0.	0.	0.	4533.	0.	0.	-54387.0	54387.0	-0.01

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

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
279	48982.	0.	-48621.	139.	0.	-143.	0.	0.	0.	0.	0.	403.	-3707.	-200.	0.	0.	-1350.	0.	0.	0.	4496.	0.	0.	-54019.7	54019.7	-0.02
280	48621.	0.	-48249.	143.	0.	-146.	0.	0.	0.	0.	0.	421.	-3699.	-199.	0.	0.	-1350.	0.	0.	0.	4459.	0.	0.	-53642.8	53642.8	-0.01
281	48249.	0.	-47868.	146.	0.	-150.	0.	0.	0.	0.	0.	440.	-3691.	-198.	0.	0.	-1350.	0.	0.	0.	4422.	0.	0.	-53256.7	53256.7	-0.02
282	47868.	0.	-47477.	150.	0.	-153.	0.	0.	0.	0.	0.	459.	-3684.	-197.	0.	0.	-1350.	0.	0.	0.	4385.	0.	0.	-52861.4	52861.4	-0.01
283	47477.	0.	-47078.	153.	0.	-157.	0.	0.	0.	0.	0.	479.	-3677.	-196.	0.	0.	-1350.	0.	0.	0.	4348.	0.	0.	-52457.3	52457.3	-0.01
284	47078.	0.	-46670.	157.	0.	-160.	0.	0.	0.	0.	0.	499.	-3670.	-196.	0.	0.	-1350.	0.	0.	0.	4311.	0.	0.	-52044.4	52044.4	-0.01
285	46670.	0.	-46253.	160.	0.	-163.	0.	0.	0.	0.	0.	519.	-3663.	-195.	0.	0.	-1349.	0.	0.	0.	4274.	0.	0.	-51623.1	51623.1	-0.02
286	46253.	0.	-45827.	163.	0.	-166.	0.	0.	0.	0.	0.	540.	-3656.	-194.	0.	0.	-1349.	0.	0.	0.	4237.	0.	0.	-51193.5	51193.5	-0.01
287	45827.	0.	-45394.	166.	0.	-170.	0.	0.	0.	0.	0.	561.	-3650.	-193.	0.	0.	-1349.	0.	0.	0.	4201.	0.	0.	-50755.8	50755.8	-0.02
288	45394.	0.	-44952.	170.	0.	-173.	0.	0.	0.	0.	0.	583.	-3643.	-193.	0.	0.	-1349.	0.	0.	0.	4164.	0.	0.	-50310.2	50310.2	0.00
289	44952.	0.	-44503.	173.	0.	-175.	0.	0.	0.	0.	0.	605.	-3637.	-192.	0.	0.	-1349.	0.	0.	0.	4127.	0.	0.	-49856.9	49856.9	-0.01
290	44503.	0.	-44046.	175.	0.	-178.	0.	0.	0.	0.	0.	628.	-3632.	-191.	0.	0.	-1349.	0.	0.	0.	4090.	0.	0.	-49396.1	49396.1	0.00

291	44046.	0.	-43582.	178.	0.	-181.	0.	0.	0.	0.	0.	650.	-3626.	-190.	0.	0.	-1349.	0.	0.	0.	4053.	0.	0.	-48927.9	48927.9	-0.02
292	43582.	0.	-43111.	181.	0.	-183.	0.	0.	0.	0.	0.	674.	-3620.	-190.	0.	0.	-1349.	0.	0.	0.	4016.	0.	0.	-48452.5	48452.5	-0.01
293	43111.	0.	-42634.	183.	0.	-183.	0.	0.	0.	0.	0.	697.	-3615.	-189.	0.	0.	-1349.	0.	0.	0.	3979.	0.	0.	-47970.1	47970.1	0.00
294	42634.	0.	-42157.	183.	0.	-177.	0.	0.	0.	0.	0.	721.	-3610.	-188.	0.	0.	-1349.	0.	0.	0.	3943.	0.	0.	-47480.5	47480.5	-0.01
295	42157.	0.	-41695.	177.	0.	-147.	0.	0.	0.	0.	0.	743.	-3605.	-187.	0.	0.	-1349.	0.	0.	0.	3906.	0.	0.	-46982.8	46982.8	-0.01
296	41695.	0.	-41311.	147.	0.	-27.	0.	0.	0.	0.	0.	762.	-3599.	-187.	0.	0.	-1349.	0.	0.	0.	3869.	0.	0.	-46473.1	46473.1	0.00
297	41311.	0.	-41194.	27.	0.	-12.	0.	0.	0.	0.	0.	144.	-767.	-32.	0.	0.	-118.	0.	0.	0.	640.	0.	0.	-42123.1	42123.1	0.00
298	41194.	0.	-41044.	12.	0.	-14.	0.	0.	0.	0.	0.	146.	-763.	-32.	0.	0.	-117.	0.	0.	0.	617.	0.	0.	-41968.9	41968.9	0.00
299	41044.	0.	-40878.	14.	0.	-15.	0.	0.	0.	0.	0.	148.	-758.	-32.	0.	0.	-117.	0.	0.	0.	593.	0.	0.	-41798.7	41798.7	0.00
300	40878.	0.	-40696.	15.	0.	-16.	0.	0.	0.	0.	0.	150.	-753.	-31.	0.	0.	-116.	0.	0.	0.	570.	0.	0.	-41612.6	41612.6	0.00
301	40696.	0.	-40498.	16.	0.	-18.	0.	0.	0.	0.	0.	152.	-748.	-31.	0.	0.	-116.	0.	0.	0.	547.	0.	0.	-41410.8	41410.8	0.00
302	40498.	0.	-40285.	18.	0.	-19.	0.	0.	0.	0.	0.	154.	-744.	-31.	0.	0.	-115.	0.	0.	0.	524.	0.	0.	-41193.6	41193.6	0.00
303	40285.	0.	-40056.	19.	0.	-20.	0.	0.	0.	0.	0.	157.	-739.	-31.	0.	0.	-115.	0.	0.	0.	501.	0.	0.	-40961.1	40961.1	0.00
304	40056.	0.	-39813.	20.	0.	-21.	0.	0.	0.	0.	0.	160.	-734.	-31.	0.	0.	-115.	0.	0.	0.	478.	0.	0.	-40713.6	40713.6	0.01
305	39813.	0.	-39554.	21.	0.	-22.	0.	0.	0.	0.	0.	162.	-730.	-30.	0.	0.	-114.	0.	0.	0.	455.	0.	0.	-40451.3	40451.3	-0.01
306	39554.	0.	-39281.	22.	0.	-24.	0.	0.	0.	0.	0.	165.	-725.	-30.	0.	0.	-114.	0.	0.	0.	432.	0.	0.	-40174.3	40174.3	0.00
307	39281.	0.	-38994.	24.	0.	-25.	0.	0.	0.	0.	0.	168.	-721.	-30.	0.	0.	-113.	0.	0.	0.	410.	0.	0.	-39882.8	39882.8	0.00
308	38994.	0.	-38692.	25.	0.	-26.	0.	0.	0.	0.	0.	171.	-717.	-30.	0.	0.	-113.	0.	0.	0.	387.	0.	0.	-39577.1	39577.1	0.00
309	38692.	0.	-38376.	26.	0.	-27.	0.	0.	0.	0.	0.	174.	-712.	-30.	0.	0.	-112.	0.	0.	0.	365.	0.	0.	-39257.3	39257.3	0.00
310	38376.	0.	-38046.	27.	0.	-28.	0.	0.	0.	0.	0.	178.	-708.	-29.	0.	0.	-112.	0.	0.	0.	343.	0.	0.	-38923.7	38923.7	0.00
311	38046.	0.	-37702.	28.	0.	-29.	0.	0.	0.	0.	0.	181.	-704.	-29.	0.	0.	-112.	0.	0.	0.	321.	0.	0.	-38576.3	38576.3	0.00
312	37702.	0.	-37345.	29.	0.	-31.	0.	0.	0.	0.	0.	185.	-700.	-29.	0.	0.	-111.	0.	0.	0.	299.	0.	0.	-38215.5	38215.5	0.00
313	37345.	0.	-36975.	31.	0.	-32.	0.	0.	0.	0.	0.	188.	-695.	-29.	0.	0.	-111.	0.	0.	0.	277.	0.	0.	-37841.4	37841.3	-0.01
314	36975.	0.	-36591.	32.	0.	-33.	0.	0.	0.	0.	0.	192.	-691.	-29.	0.	0.	-110.	0.	0.	0.	256.	0.	0.	-37454.1	37454.1	0.00
315	36591.	0.	-36194.	33.	0.	-34.	0.	0.	0.	0.	0.	196.	-687.	-29.	0.	0.	-110.	0.	0.	0.	234.	0.	0.	-37053.8	37053.8	0.01
316	36194.	0.	-35785.	34.	0.	-35.	0.	0.	0.	0.	0.	200.	-683.	-28.	0.	0.	-110.	0.	0.	0.	213.	0.	0.	-36640.8	36640.8	0.00
317	35785.	0.	-35363.	35.	0.	-36.	0.	0.	0.	0.	0.	204.	-679.	-28.	0.	0.	-109.	0.	0.	0.	191.	0.	0.	-36215.2	36215.2	-0.01
318	35363.	0.	-34928.	36.	0.	-37.	0.	0.	0.	0.	0.	209.	-675.	-28.	0.	0.	-109.	0.	0.	0.	170.	0.	0.	-35777.2	35777.2	0.01
319	34928.	0.	-34482.	37.	0.	-38.	0.	0.	0.	0.	0.	213.	-671.	-28.	0.	0.	-108.	0.	0.	0.	149.	0.	0.	-35326.9	35326.9	-0.01
320	34482.	0.	-34023.	38.	0.	-39.	0.	0.	0.	0.	0.	217.	-668.	-28.	0.	0.	-108.	0.	0.	0.	128.	0.	0.	-34864.6	34864.6	0.00
321	34023.	0.	-33552.	39.	0.	-40.	0.	0.	0.	0.	0.	222.	-664.	-27.	0.	0.	-108.	0.	0.	0.	107.	0.	0.	-34390.3	34390.3	0.01
322	33552.	0.	-33070.	40.	0.	-40.	0.	0.	0.	0.	0.	226.	-660.	-27.	0.	0.	-107.	0.	0.	0.	86.	0.	0.	-33904.3	33904.3	0.00
323	33070.	0.	-32579.	40.	0.	-38.	0.	0.	0.	0.	0.	231.	-656.	-27.	0.	0.	-107.	0.	0.	0.	66.	0.	0.	-33406.8	33406.8	0.00
324	32579.	0.	-32114.	38.	0.	-3.	0.	0.	0.	0.	0.	236.	-647.	-27.	0.	0.	-106.	0.	0.	0.	45.	0.	0.	-32897.8	32897.8	0.00
325	32114.	0.	-32073.	3.	0.	404.	0.	0.	0.	0.	0.	236.	-577.	-27.	0.	0.	-106.	0.	0.	0.	25.	0.	0.	-32782.1	32782.1	0.00

DISSOLVED OXYGEN LOADING FOR REACH 2: Fourmile Bayou Oxbow

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	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
56	5170.	0.	-5070.	0.	0.	-7.	0.	0.	0.	0.	0.	3.	-221.	-6.	0.	0.	-63.	0.	0.	0.	192.	0.	0.	-5365.6	5365.6	0.00
57	5070.	0.	-4974.	7.	0.	-7.	0.	0.	0.	0.	0.	4.	-220.	-5.	0.	0.	-62.	0.	0.	0.	189.	0.	0.	-5270.1	5270.1	0.00
58	4974.	0.	-4877.	7.	0.	-7.	0.	0.	0.	0.	0.	5.	-220.	-5.	0.	0.	-62.	0.	0.	0.	185.	0.	0.	-5172.4	5172.4	0.00
59	4877.	0.	-4777.	7.	0.	-8.	0.	0.	0.	0.	0.	6.	-220.	-5.	0.	0.	-62.	0.	0.	0.	182.	0.	0.	-5072.6	5072.6	0.00
60	4777.	0.	-4675.	8.	0.	-8.	0.	0.	0.	0.	0.	7.	-220.	-5.	0.	0.	-62.	0.	0.	0.	179.	0.	0.	-4970.6	4970.6	0.00
61	4675.	0.	-4571.	8.	0.	-8.	0.	0.	0.	0.	0.	8.	-220.	-5.	0.	0.	-62.	0.	0.	0.	175.	0.	0.	-4866.6	4866.6	0.00
62	4571.	0.	-4465.	8.	0.	-8.	0.	0.	0.	0.	0.	10.	-220.	-5.	0.	0.	-62.	0.	0.	0.	172.	0.	0.	-4760.4	4760.4	0.00
63	4465.	0.	-4357.	8.	0.	-8.	0.	0.	0.	0.	0.	11.	-220.	-5.	0.	0.	-62.	0.	0.	0.	169.	0.	0.	-4652.3	4652.3	0.00
64	4357.	0.	-4247.	8.	0.	-8.	0.	0.	0.	0.	0.	12.	-220.	-5.	0.	0.	-62.	0.	0.	0.	165.	0.	0.	-4542.1	4542.1	0.00
65	4247.	0.	-4135.	8.	0.	-8.	0.	0.	0.	0.	0.	13.	-220.	-5.	0.	0.	-62.	0.	0.	0.	162.	0.	0.	-4429.9	4429.9	0.00
66	4135.	0.	-4020.	8.	0.	-9.	0.	0.	0.	0.	0.	14.	-220.	-5.	0.	0.	-62.	0.	0.	0.	159.	0.	0.	-4315.8	4315.8	0.00
67	4020.	0.	-3904.	9.	0.	-9.	0.	0.	0.	0.	0.	15.	-220.	-5.	0.	0.	-62.	0.	0.	0.	155.	0.	0.	-4199.7	4199.7	0.00

68	3904.	0.	-3786.	9.	0.	-9.	0.	0.	0.	0.	0.	17.	-220.	-5.	0.	0.	-61.	0.	0.	0.	152.	0.	0.	-4081.8	4081.8	0.00
69	3786.	0.	-3667.	9.	0.	-9.	0.	0.	0.	0.	0.	18.	-220.	-5.	0.	0.	-61.	0.	0.	0.	149.	0.	0.	-3961.9	3961.9	0.00
70	3667.	0.	-3545.	9.	0.	-9.	0.	0.	0.	0.	0.	19.	-220.	-5.	0.	0.	-61.	0.	0.	0.	145.	0.	0.	-3840.2	3840.2	0.00
71	3545.	0.	-3421.	9.	0.	-9.	0.	0.	0.	0.	0.	20.	-220.	-5.	0.	0.	-61.	0.	0.	0.	142.	0.	0.	-3716.6	3716.6	0.00
72	3421.	0.	-3296.	9.	0.	-9.	0.	0.	0.	0.	0.	22.	-220.	-5.	0.	0.	-61.	0.	0.	0.	139.	0.	0.	-3591.2	3591.2	0.00
73	3296.	0.	-3169.	9.	0.	-10.	0.	0.	0.	0.	0.	23.	-220.	-5.	0.	0.	-61.	0.	0.	0.	136.	0.	0.	-3464.0	3464.0	0.00
74	3169.	0.	-3040.	10.	0.	-10.	0.	0.	0.	0.	0.	24.	-220.	-5.	0.	0.	-61.	0.	0.	0.	132.	0.	0.	-3335.1	3335.1	0.00
75	3040.	0.	-2909.	10.	0.	-10.	0.	0.	0.	0.	0.	26.	-220.	-5.	0.	0.	-61.	0.	0.	0.	129.	0.	0.	-3204.5	3204.5	0.00
76	2909.	0.	-2777.	10.	0.	-10.	0.	0.	0.	0.	0.	27.	-220.	-5.	0.	0.	-61.	0.	0.	0.	126.	0.	0.	-3072.1	3072.1	0.00
77	2777.	0.	-2643.	10.	0.	-10.	0.	0.	0.	0.	0.	28.	-220.	-4.	0.	0.	-61.	0.	0.	0.	123.	0.	0.	-2938.0	2938.0	0.00
78	2643.	0.	-2508.	10.	0.	-10.	0.	0.	0.	0.	0.	30.	-220.	-4.	0.	0.	-61.	0.	0.	0.	119.	0.	0.	-2802.3	2802.3	0.00
79	2508.	0.	-2370.	10.	0.	-10.	0.	0.	0.	0.	0.	31.	-220.	-4.	0.	0.	-60.	0.	0.	0.	116.	0.	0.	-2665.0	2665.0	0.00
80	2370.	0.	-2231.	10.	0.	-10.	0.	0.	0.	0.	0.	33.	-220.	-4.	0.	0.	-60.	0.	0.	0.	113.	0.	0.	-2526.0	2526.0	0.00
81	2231.	0.	-2091.	10.	0.	-11.	0.	0.	0.	0.	0.	34.	-220.	-4.	0.	0.	-60.	0.	0.	0.	110.	0.	0.	-2385.5	2385.5	0.00
82	2091.	0.	-1949.	11.	0.	-11.	0.	0.	0.	0.	0.	36.	-220.	-4.	0.	0.	-60.	0.	0.	0.	106.	0.	0.	-2243.4	2243.4	0.00
83	1949.	0.	-1806.	11.	0.	-11.	0.	0.	0.	0.	0.	37.	-219.	-4.	0.	0.	-60.	0.	0.	0.	103.	0.	0.	-2099.8	2099.8	0.00
84	1806.	0.	-1661.	11.	0.	-11.	0.	0.	0.	0.	0.	38.	-219.	-4.	0.	0.	-60.	0.	0.	0.	100.	0.	0.	-1954.7	1954.7	0.00
85	1661.	0.	-1517.	11.	0.	-9.	0.	0.	0.	0.	0.	40.	-219.	-4.	0.	0.	-60.	0.	0.	0.	97.	0.	0.	-1808.2	1808.2	-0.01
86	1517.	0.	-1394.	9.	0.	-8.	0.	0.	0.	0.	0.	41.	-201.	-3.	0.	0.	-55.	0.	0.	0.	94.	0.	0.	-1660.6	1660.7	0.01
87	1394.	0.	-1289.	8.	0.	-7.	0.	0.	0.	0.	0.	42.	-186.	-2.	0.	0.	-51.	0.	0.	0.	90.	0.	0.	-1534.4	1534.4	0.01
88	1289.	0.	-1198.	7.	0.	-6.	0.	0.	0.	0.	0.	43.	-174.	-2.	0.	0.	-47.	0.	0.	0.	87.	0.	0.	-1425.7	1425.7	0.00
89	1198.	0.	-1119.	6.	0.	-5.	0.	0.	0.	0.	0.	44.	-163.	-1.	0.	0.	-44.	0.	0.	0.	84.	0.	0.	-1331.7	1331.6	-0.02
90	1119.	0.	-1050.	5.	0.	-4.	0.	0.	0.	0.	0.	45.	-153.	-1.	0.	0.	-41.	0.	0.	0.	81.	0.	0.	-1249.7	1249.6	-0.03
91	1050.	0.	-990.	4.	0.	-4.	0.	0.	0.	0.	0.	45.	-145.	-1.	0.	0.	-39.	0.	0.	0.	78.	0.	0.	-1177.7	1177.6	-0.04
92	990.	0.	-936.	4.	0.	-4.	0.	0.	0.	0.	0.	46.	-137.	-1.	0.	0.	-36.	0.	0.	0.	75.	0.	0.	-1114.1	1114.0	-0.04
93	936.	0.	-888.	4.	0.	-3.	0.	0.	0.	0.	0.	46.	-131.	-1.	0.	0.	-35.	0.	0.	0.	71.	0.	0.	-1057.4	1057.3	-0.03
94	888.	0.	-845.	3.	0.	-3.	0.	0.	0.	0.	0.	47.	-125.	0.	0.	0.	-33.	0.	0.	0.	68.	0.	0.	-1006.5	1006.5	-0.02
95	845.	0.	-807.	3.	0.	-2.	0.	0.	0.	0.	0.	47.	-120.	0.	0.	0.	-31.	0.	0.	0.	65.	0.	0.	-960.4	960.4	0.00
96	807.	0.	-785.	2.	0.	15.	0.	0.	0.	0.	0.	47.	-117.	0.	0.	0.	-30.	0.	0.	0.	62.	0.	0.	-932.7	932.8	0.04
97	785.	0.	-982.	-15.	0.	291.	0.	0.	0.	0.	0.	45.	-145.	-1.	0.	0.	-38.	0.	0.	0.	59.	0.	0.	-1180.4	1180.4	-0.06

LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
Calibration Simulation for Lake Verret and Grassy Lake 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	69.500	40308.2	142633.4	0.0	9683.7	600.5	240.2	0.0	0.0	0.0
INCREMENTAL INFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	30.113	19770.3	43730.1	0.0	6243.7	265.1	522.3	0.0	0.0	0.0
WITHDRAWLS	-8.800	-5004.8	-17944.8	0.0	-1302.5	-70.4	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-90.813	-32072.7	-92134.0	0.0	-12547.8	-782.6	0.0	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		403.6	-11620.5	0.0	-2066.6	0.3	1421.5	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	702998.5	0.0	7150.0					0.0
NATURAL REAERATION		98789.0								
DAM REAERATION		0.0								
BACKGROUND SOD		-204613.5								
BOD#1 DECAY		-767664.4	-767664.4							
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			-7160.5	7160.5				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-31061.3				-7173.5	7173.5			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		881144.9				0.0	-44057.3	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	99.613	1040415.9	889362.0	0.0	23077.4	8026.3	9357.5	0.0	0.0	0.0
TOTAL OUTPUTS	-99.613	-1040416.6	-889363.7	0.0	-23077.4	-8026.5	-44057.3	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	-0.7	-1.7	0.0	0.0	-0.2	-34699.8	0.0	0.0	0.0

.....EXECUTION COMPLETED

Calibration output file for subsegment 120604

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LA-QUAL Version 8.11
Louisiana Department of Environmental Quality
Input file is D:\LA TMDL 2006\Additional\TO95\TT_Models\0608 MT\0608 MT - Blue\Cal\Blue_Calib_0608.txt
Output produced at 09:48 on 06/22/2008
$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$
CARD TYPE      CONTROL TITLES
TITLE01        LA-QUAL calibration for Bayou Blue
TITLE02        FTN Field Survey calibration
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   TEMP
MODOPT02   NO   SALI
MODOPT03   NO   CONSERVATIVE MATERIAL
MODOPT04   NO   CONSERVATIVE MATERIAL II
MODOPT05  YES   DISS
MODOPT06  YES   BIOC
MODOPT07  YES   NITR
MODOPT08   NO   PHOS
MODOPT09   NO   CHLO
MODOPT10   NO   MACR
MODOPT11   NO   COLI
MODOPT12   NO   NONC
ENDATA02
$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$
CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE
PROGRAM        HYDRAULIC CALCULATION METHOD      =        2.00000 (widths and depths)
PROGRAM        MAXIMUM ITERATION LIMIT           =      500.00000
PROGRAM        ALGAE OXYGEN PROD                 =        0.02600 mg O/ug chl a/day
PROGRAM        WIND                              =        1.30000 meters/sec
PROGRAM        TIDE  HEIGHT                      =        0.80000 meters
PROGRAM        DISPERSION EQUATION               =        1.00000 (values entered as a constant)
PROGRAM        HEADWATER EXCHANGE RATIO          =        1.00000
ENDATA03
$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$
 CARD TYPE    RATE CODE    THETA VALUE
THETA       NH3 DECA       1.07000
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
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$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$
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   BB  BayouBlue#1                    20.20  TO   3.70  0.1000   16.50    165      1   165
REACH ID     2   IC  ICWWtoBlue                     1.40  TO   0.00  0.1000    1.40     14    166   179
REACH ID     3   BB  BayouBlue#2                    3.70  TO   0.00  0.1000    3.70     37    180   216
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   BB      0.000      0.000     10.000      0.000      0.000      0.500    0.00000   0.000
HYDR-1       2   IC      0.000      0.000     44.000      0.000      0.000      1.400    0.00000   0.000
HYDR-1       3   BB      0.000      0.000     65.500      0.000      0.000      0.900    0.00000   0.000
ENDATA09
$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                  RANGE       "A"          "B"          "C"          "D"
HYDR         1   BB     0.00       0.500        0.000        0.000        0.000
HYDR         2   IC     0.00       0.500        0.000        0.000        0.000
HYDR         3   BB     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   BB      31.20      0.00     3.00     0.10      0.00      0.00     20.00      0.00
INITIAL         2   IC      32.00      0.00     3.00     0.11      0.00      0.00     20.00      0.00
INITIAL         3   BB      32.00      0.00     3.00     0.11      0.00      0.00     20.00      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   BB   3 OCONNER-DOBB   0.000    0.000    0.000    0.500    0.150    0.000    1.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   2   IC   3 OCONNER-DOBB   0.000    0.000    0.000    0.700    0.150    0.000    1.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   3   BB   3 OCONNER-DOBB   0.000    0.000    0.000    0.500    0.150    0.000    1.000    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   BB     0.020    0.000    1.000    0.130    0.000    0.000    0.000
COEFF-2         2   IC     0.020    0.000    1.000    0.130    0.000    0.000    0.000
COEFF-2         3   BB     0.020    0.000    1.000    0.130    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
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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  BB      0.00000    0.05000    30.90     0.00     0.00     0.00  0.00303  0.00000
INCR-1          2  IC      0.00000    0.00000    30.90     0.00     0.00     0.00  0.00000  0.00000
INCR-1          3  BB      0.00000    0.00000    30.90     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  BB      4.32     4.90     1.20     0.11     0.00     0.00
INCR-2          2  IC      4.32     4.90     1.20     0.11     0.00     0.00
INCR-2          3  BB      4.32     4.90     1.20     0.11     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  BB     240.00     0.00     0.00     0.00     0.00     0.00
NONPOINT        2  IC     240.00     0.00     0.00     0.00     0.00     0.00
NONPOINT        3  BB     700.00     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    BayouBlue#1           0  0.39600  13.983  31.20     0.00    0.000    0.000   0.00
HDWTR-1      166    ICWWtoBlue            0  0.39600  13.983  32.00     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    BayouBlue#1             4.32     4.90     1.20     0.11     0.00     0.00
HDWTR-2      166    ICWWtoBlue              3.33     3.93     1.14     0.12     0.00     0.00
ENDATA21
$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
CARD TYPE    ELEMENT   NAME                    PHOS    CHL A     COLI      NCM
                                            mg/L     mg/L     mg/L     mg/L
ENDATA22
$$$ DATA TYPE 23 (JUNCTION DATA) $$$
CARD TYPE   JUNCTION   UPSTRM    RIVER     NAME
         ELEMENT  ELEMENT    KILOM
JUNCTION      180     165      3.70    ICWWtoBlue
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
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WSTLD-1      63     14.00  toICWW            -0.39638  -13.99647   -9.047   31.20     0.00     0.000     0.000
WSTLD-1     119      8.40  LAG541539           0.00020    0.00706    0.005   31.20     0.00     0.000     0.000
WSTLD-1     119      8.40  LA0084077           0.00017    0.00600    0.004   31.20     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       63    toICWW                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WSTLD-2      119    LAG541539             5.00    69.00     0.00     1.40     1.50     0.00     0.00     0.00
WSTLD-2      119    LA0084077             5.00   103.50     0.00     1.40     1.50     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                  31.400     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             4.850     mg/L
LOWER BC     BIOCHEMICAL OXYGEN DEMAND    4.030     mg/L
LOWER BC     ORGANIC NITROGEN             0.000     mg/L
LOWER BC     AMMONIA NITROGEN             0.100     mg/L
LOWER BC     NITRATE + NITRITE            0.320     mg/L
LOWER BC     PHOSPHORUS                   0.000     mg/L
LOWER BC     CHLOROPHYLL A                20.000     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 =   2
PLOT RCH  1  3
NUMBER OF REACHES IN PLOT 2 =   1
PLOT RCH  2
ENDATA30
$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 Blue.ovl                    :BayouBlue (120604)
OVERLAY 2 ICWWtoBlue.ovl              :ICWWtoBlue
ENDATA31
    .....NO ERRORS DETECTED IN INPUT DATA
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    .....HYDRAULIC CALCULATIONS COMPLETED
    .....TRIDIAGONAL MATRIX TERMS INITIALIZED
    .....OXYGEN DEPENDENT RATES CONVERGENT IN   8 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 calibration for Bayou Blue
   mg/L                                    FTN Field Survey calibration
 ID  RCH  ELEM      +0      +1      +2      +3      +4      +5      +6      +7      +8      +9
 BB   1    1     4.46    4.58    4.69    4.80    4.90    5.00    5.09    5.18    5.26    5.34
 BB   1   11     5.41    5.48    5.54    5.60    5.66    5.72    5.77    5.82    5.86    5.91
 BB   1   21     5.95    5.99    6.02    6.06    6.09    6.12    6.15    6.18    6.20    6.23
 BB   1   31     6.25    6.27    6.29    6.31    6.33    6.35    6.36    6.38    6.39    6.41
 BB   1   41     6.42    6.43    6.44    6.45    6.46    6.47    6.48    6.49    6.49    6.50
 BB   1   51     6.51    6.51    6.52    6.52    6.53    6.53    6.54    6.54    6.55    6.55
 BB   1   61     6.55    6.55    6.52    6.25    6.05    5.90    5.78    5.68    5.61    5.55
 BB   1   71     5.50    5.45    5.42    5.39    5.36    5.34    5.31    5.29    5.28    5.26
 BB   1   81     5.25    5.23    5.22    5.21    5.20    5.19    5.18    5.17    5.16    5.16
 BB   1   91     5.15    5.14    5.14    5.13    5.13    5.12    5.12    5.11    5.11    5.10
 BB   1  101     5.10    5.10    5.09    5.09    5.09    5.08    5.08    5.08    5.08    5.07
 BB   1  111     5.07    5.07    5.07    5.06    5.06    5.06    5.05    5.04    5.02    5.00
 BB   1  121     4.99    4.98    4.98    4.97    4.97    4.97    4.97    4.97    4.97    4.97
 BB   1  131     4.97    4.97    4.97    4.97    4.97    4.97    4.97    4.98    4.98    4.98
 BB   1  141     4.98    4.98    4.98    4.98    4.98    4.98    4.98    4.98    4.98    4.98
 BB   1  151     4.98    4.98    4.99    4.99    4.99    4.99    4.99    4.99    4.99    4.99
 BB   1  161     4.98    4.98    4.95    4.85    4.47
 BB   3  180     4.24    4.30    4.35    4.39    4.42    4.44    4.46    4.46    4.47    4.47
 BB   3  190     4.47    4.46    4.45    4.44    4.43    4.42    4.40    4.39    4.37    4.35
 BB   3  200     4.34    4.32    4.30    4.29    4.27    4.25    4.24    4.22    4.21    4.19
 BB   3  210     4.18    4.17    4.16    4.17    4.22    4.33    4.58
 IC   2  166     3.58    3.69    3.79    3.86    3.92    3.97    4.00    4.02    4.04    4.04
 IC   2  176     4.04    4.04    4.06    4.11
INTERMEDIATE REPORT
 Effective BOD                             LA-QUAL calibration for Bayou Blue
   mg/L                                    FTN Field Survey calibration
 ID  RCH  ELEM      +0      +1      +2      +3      +4      +5      +6      +7      +8      +9
 BB   1    1     4.93    4.95    4.97    5.00    5.02    5.05    5.07    5.09    5.12    5.14
 BB   1   11     5.16    5.19    5.21    5.23    5.25    5.28    5.30    5.32    5.34    5.37
 BB   1   21     5.39    5.41    5.43    5.45    5.47    5.50    5.52    5.54    5.56    5.58
 BB   1   31     5.60    5.62    5.64    5.66    5.68    5.70    5.72    5.74    5.76    5.78
 BB   1   41     5.80    5.82    5.84    5.86    5.88    5.90    5.92    5.94    5.96    5.98
 BB   1   51     6.00    6.01    6.03    6.05    6.07    6.09    6.11    6.12    6.14    6.16
 BB   1   61     6.18    6.20    6.23    6.55    6.84    7.11    7.35    7.57    7.77    7.95
 BB   1   71     8.12    8.28    8.42    8.55    8.67    8.78    8.88    8.98    9.06    9.14
 BB   1   81     9.22    9.29    9.35    9.41    9.46    9.51    9.56    9.60    9.64    9.68
 BB   1   91     9.71    9.74    9.77    9.80    9.83    9.85    9.87    9.89    9.91    9.93
 BB   1  101     9.95    9.96    9.98    9.99   10.01   10.02   10.03   10.04   10.05   10.06
 BB   1  111    10.07   10.07   10.08   10.09   10.11   10.14   10.22   10.39   10.81   10.78
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BB	1	121	10.76	10.73	10.71	10.69	10.66	10.64	10.62	10.61	10.59	10.57
BB	1	131	10.56	10.54	10.52	10.51	10.50	10.48	10.47	10.46	10.45	10.44
BB	1	141	10.43	10.42	10.41	10.40	10.39	10.38	10.37	10.36	10.35	10.35
BB	1	151	10.34	10.33	10.33	10.32	10.31	10.31	10.30	10.29	10.29	10.28
BB	1	161	10.26	10.21	10.06	9.64	8.34					
BB	3	180	7.71	7.88	8.05	8.21	8.37	8.52	8.66	8.80	8.93	9.06
BB	3	190	9.19	9.31	9.43	9.54	9.65	9.75	9.85	9.95	10.05	10.14
BB	3	200	10.23	10.31	10.39	10.47	10.55	10.62	10.70	10.76	10.83	10.89
BB	3	210	10.95	10.99	10.99	10.91	10.60	9.70	7.26			
IC	2	166	4.43	4.71	4.97	5.21	5.45	5.68	5.90	6.11	6.31	6.50
IC	2	176	6.69	6.89	7.11	7.39						

INTERMEDIATE REPORT

Biochemical Oxygen Demand — LA-QUAL calibration for Bayou Blue

mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	4.93	4.95	4.97	5.00	5.02	5.05	5.07	5.09	5.12	5.14
BB	1	11	5.16	5.19	5.21	5.23	5.25	5.28	5.30	5.32	5.34	5.37
BB	1	21	5.39	5.41	5.43	5.45	5.47	5.50	5.52	5.54	5.56	5.58
BB	1	31	5.60	5.62	5.64	5.66	5.68	5.70	5.72	5.74	5.76	5.78
BB	1	41	5.80	5.82	5.84	5.86	5.88	5.90	5.92	5.94	5.96	5.98
BB	1	51	6.00	6.01	6.03	6.05	6.07	6.09	6.11	6.12	6.14	6.16
BB	1	61	6.18	6.20	6.23	6.55	6.84	7.11	7.35	7.57	7.77	7.95
BB	1	71	8.12	8.28	8.42	8.55	8.67	8.78	8.88	8.98	9.06	9.14
BB	1	81	9.22	9.29	9.35	9.41	9.46	9.51	9.56	9.60	9.64	9.68
BB	1	91	9.71	9.74	9.77	9.80	9.83	9.85	9.87	9.89	9.91	9.93
BB	1	101	9.95	9.96	9.98	9.99	10.01	10.02	10.03	10.04	10.05	10.06
BB	1	111	10.07	10.07	10.08	10.09	10.11	10.14	10.22	10.39	10.81	10.78
BB	1	121	10.76	10.73	10.71	10.69	10.66	10.64	10.62	10.61	10.59	10.57
BB	1	131	10.56	10.54	10.52	10.51	10.50	10.48	10.47	10.46	10.45	10.44
BB	1	141	10.43	10.42	10.41	10.40	10.39	10.38	10.37	10.36	10.35	10.35
BB	1	151	10.34	10.33	10.33	10.32	10.31	10.31	10.30	10.29	10.29	10.28
BB	1	161	10.26	10.21	10.06	9.64	8.34					
BB	3	180	7.71	7.88	8.05	8.21	8.37	8.52	8.66	8.80	8.93	9.06
BB	3	190	9.19	9.31	9.43	9.54	9.65	9.75	9.85	9.95	10.05	10.14
BB	3	200	10.23	10.31	10.39	10.47	10.55	10.62	10.70	10.76	10.83	10.89
BB	3	210	10.95	10.99	10.99	10.91	10.60	9.70	7.26			
IC	2	166	4.43	4.71	4.97	5.21	5.45	5.68	5.90	6.11	6.31	6.50
IC	2	176	6.69	6.89	7.11	7.39						

INTERMEDIATE REPORT

Organic Nitrogen — LA-QUAL calibration for Bayou Blue

mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
BB	1	11	1.20	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
BB	1	21	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
BB	1	31	1.19	1.19	1.19	1.19	1.19	1.18	1.18	1.18	1.18	1.18
BB	1	41	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
BB	1	51	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
BB	1	61	1.17	1.17	1.17	1.17	1.16	1.15	1.14	1.14	1.13	1.12
BB	1	71	1.12	1.11	1.10	1.10	1.09	1.09	1.08	1.08	1.07	1.07

BB	1	81	1.06	1.06	1.05	1.05	1.05	1.04	1.04	1.03	1.03	1.03
BB	1	91	1.02	1.02	1.02	1.01	1.01	1.01	1.00	1.00	1.00	1.00
BB	1	101	0.99	0.99	0.99	0.99	0.98	0.98	0.98	0.98	0.97	0.97
BB	1	111	0.97	0.97	0.97	0.96	0.96	0.96	0.96	0.96	0.96	0.96
BB	1	121	0.95	0.95	0.95	0.95	0.95	0.95	0.94	0.94	0.94	0.94
BB	1	131	0.94	0.94	0.94	0.93	0.93	0.93	0.93	0.93	0.93	0.93
BB	1	141	0.93	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
BB	1	151	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
BB	1	161	0.91	0.91	0.92	0.94	1.01					
BB	3	180	1.04	1.04	1.04	1.03	1.03	1.02	1.02	1.02	1.01	1.01
BB	3	190	1.00	1.00	1.00	0.99	0.99	0.99	0.98	0.98	0.97	0.97
BB	3	200	0.97	0.96	0.96	0.96	0.95	0.95	0.94	0.94	0.94	0.93
BB	3	210	0.93	0.92	0.91	0.89	0.84	0.71	0.39			
IC	2	166	1.13	1.13	1.12	1.12	1.11	1.11	1.10	1.10	1.09	1.09
IC	2	176	1.08	1.07	1.07	1.06						

INTERMEDIATE REPORT

Ammonia Nitrogen — LA-QUAL calibration for Bayou Blue

mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	21	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	31	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	41	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	51	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	61	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	71	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	81	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	91	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BB	1	101	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BB	1	111	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11
BB	1	121	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	131	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BB	1	141	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BB	1	151	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BB	1	161	0.10	0.10	0.10	0.10	0.11					
BB	3	180	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	3	190	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	3	200	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
BB	3	210	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
IC	2	166	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	2	176	0.12	0.12	0.12	0.11						

INTERMEDIATE REPORT

Nitrate+Nitrite Nitrogen — LA-QUAL calibration for Bayou Blue

mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BB	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	161	0.00	0.00	0.00	0.00	0.00					
BB	3	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
IC	2	166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	176	0.00	0.00	0.00	0.00						

INTERMEDIATE REPORT

Total Nitrogen — LA-QUAL calibration for Bayou Blue

mg/L — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
BB	1	11	1.31	1.31	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
BB	1	21	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
BB	1	31	1.30	1.30	1.30	1.30	1.30	1.30	1.29	1.29	1.29	1.29
BB	1	41	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
BB	1	51	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
BB	1	61	1.29	1.28	1.28	1.28	1.27	1.26	1.25	1.25	1.24	1.23
BB	1	71	1.23	1.22	1.21	1.21	1.20	1.20	1.19	1.19	1.18	1.18
BB	1	81	1.17	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.14	1.13
BB	1	91	1.13	1.12	1.12	1.12	1.11	1.11	1.11	1.10	1.10	1.10
BB	1	101	1.10	1.09	1.09	1.09	1.08	1.08	1.08	1.08	1.07	1.07
BB	1	111	1.07	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.07	1.07
BB	1	121	1.07	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05
BB	1	131	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03
BB	1	141	1.03	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.01	1.01
BB	1	151	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.00	1.00	1.00
BB	1	161	1.00	1.00	1.01	1.04	1.12					
BB	3	180	1.16	1.15	1.15	1.14	1.14	1.14	1.13	1.13	1.12	1.12
BB	3	190	1.11	1.11	1.11	1.10	1.10	1.09	1.09	1.08	1.08	1.08
BB	3	200	1.07	1.07	1.06	1.06	1.06	1.05	1.05	1.04	1.04	1.04
BB	3	210	1.03	1.02	1.01	0.99	0.94	0.81	0.49			
IC	2	166	1.25	1.25	1.24	1.23	1.23	1.22	1.22	1.21	1.21	1.20
IC	2	176	1.20	1.19	1.18	1.17						

INTERMEDIATE REPORT

Chlorophyll a — LA-QUAL calibration for Bayou Blue

µg/L — FTN Field Survey calibration

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

BB	1	1	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	11	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	21	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	31	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	41	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	51	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	61	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	71	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	81	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	91	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	101	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	111	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	121	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	131	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	141	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	151	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	161	20.00	20.00	20.00	20.00	20.00					
BB	3	180	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	3	190	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	3	200	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	3	210	20.00	20.00	20.00	20.00	20.00	20.00	20.00			
IC	2	166	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	176	20.00	20.00	20.00	20.00						

INTERMEDIATE REPORT

Temperature — LA-QUAL calibration for Bayou Blue

deg C — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	31.20	31.21	31.21	31.22	31.22	31.23	31.23	31.24	31.24	31.25
BB	1	11	31.25	31.26	31.26	31.27	31.27	31.28	31.28	31.29	31.29	31.30
BB	1	21	31.30	31.31	31.31	31.32	31.32	31.33	31.33	31.34	31.34	31.35
BB	1	31	31.35	31.36	31.36	31.36	31.37	31.37	31.38	31.38	31.39	31.39
BB	1	41	31.40	31.40	31.41	31.41	31.42	31.42	31.43	31.43	31.44	31.44
BB	1	51	31.45	31.45	31.46	31.46	31.47	31.47	31.48	31.48	31.49	31.49
BB	1	61	31.50	31.50	31.51	31.51	31.52	31.52	31.52	31.53	31.53	31.54
BB	1	71	31.54	31.55	31.55	31.56	31.56	31.57	31.57	31.58	31.58	31.59
BB	1	81	31.59	31.60	31.60	31.61	31.61	31.62	31.62	31.63	31.63	31.64
BB	1	91	31.64	31.65	31.65	31.66	31.66	31.67	31.67	31.68	31.68	31.68
BB	1	101	31.69	31.69	31.70	31.70	31.71	31.71	31.72	31.72	31.73	31.73
BB	1	111	31.74	31.74	31.75	31.75	31.76	31.76	31.77	31.77	31.78	31.78
BB	1	121	31.79	31.79	31.80	31.80	31.81	31.81	31.82	31.82	31.83	31.83
BB	1	131	31.84	31.84	31.84	31.85	31.85	31.86	31.86	31.87	31.87	31.88
BB	1	141	31.88	31.89	31.89	31.90	31.90	31.91	31.91	31.92	31.92	31.93
BB	1	151	31.93	31.94	31.94	31.95	31.95	31.96	31.96	31.97	31.97	31.98
BB	1	161	31.98	31.99	31.99	32.00	32.00					
BB	3	180	31.98	31.97	31.95	31.94	31.92	31.90	31.89	31.87	31.85	31.84
BB	3	190	31.82	31.81	31.79	31.77	31.76	31.74	31.72	31.71	31.69	31.68
BB	3	200	31.66	31.64	31.63	31.61	31.59	31.58	31.56	31.55	31.53	31.51
BB	3	210	31.50	31.48	31.46	31.45	31.43	31.42	31.40			
IC	2	166	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
IC	2	176	32.00	32.00	32.00	32.00						

INTERMEDIATE REPORT

Salinity — LA-QUAL calibration for Bayou Blue
ppt — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	161	0.00	0.00	0.00	0.00	0.00					
BB	3	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
IC	2	166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	176	0.00	0.00	0.00	0.00						

INTERMEDIATE REPORT

Reaeration Rate — LA-QUAL calibration for Bayou Blue
per day — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	3.845	3.847	3.849	3.850	3.852	3.854	3.856	3.857	3.859	3.861
BB	1	11	3.863	3.865	3.866	3.868	3.870	3.872	3.873	3.875	3.877	3.879
BB	1	21	3.881	3.882	3.884	3.886	3.888	3.889	3.891	3.893	3.895	3.897
BB	1	31	3.898	3.900	3.902	3.904	3.906	3.907	3.909	3.911	3.913	3.914
BB	1	41	3.916	3.918	3.920	3.922	3.923	3.925	3.927	3.929	3.930	3.932
BB	1	51	3.934	3.936	3.937	3.939	3.941	3.943	3.945	3.946	3.948	3.950
BB	1	61	3.952	3.953	1.728	1.728	1.728	1.728	1.729	1.729	1.729	1.729
BB	1	71	1.729	1.729	1.729	1.730	1.730	1.730	1.730	1.730	1.730	1.730
BB	1	81	1.731	1.731	1.731	1.731	1.731	1.731	1.731	1.732	1.732	1.732
BB	1	91	1.732	1.732	1.732	1.732	1.733	1.733	1.733	1.733	1.733	1.733
BB	1	101	1.733	1.734	1.734	1.734	1.734	1.734	1.734	1.734	1.735	1.735
BB	1	111	1.735	1.735	1.735	1.735	1.735	1.736	1.736	1.736	1.736	1.736
BB	1	121	1.736	1.736	1.737	1.737	1.737	1.737	1.737	1.737	1.737	1.738
BB	1	131	1.738	1.738	1.738	1.738	1.738	1.738	1.739	1.739	1.739	1.739
BB	1	141	1.739	1.739	1.739	1.740	1.740	1.740	1.740	1.740	1.740	1.740
BB	1	151	1.741	1.741	1.741	1.741	1.741	1.741	1.741	1.742	1.742	1.742
BB	1	161	1.742	1.742	1.742	1.742	1.743					
BB	3	180	0.968	0.968	0.967	0.967	0.967	0.966	0.966	0.966	0.966	0.965
BB	3	190	0.965	0.965	0.965	0.964	0.964	0.964	0.964	0.963	0.963	0.963

BB	3	200	0.963	0.962	0.962	0.962	0.961	0.961	0.961	0.961	0.960	0.960
BB	3	210	0.960	0.960	0.959	0.959	0.959	0.959	0.958			
IC	2	166	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622
IC	2	176	0.622	0.622	0.622	0.622						

INTERMEDIATE REPORT

BOD Decay Rate — LA-QUAL calibration for Bayou Blue
per day — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	11	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	21	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	31	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	41	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	51	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	61	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	71	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	81	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	91	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	101	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	111	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	121	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	131	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	141	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	151	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	161	0.26	0.26	0.26	0.26	0.26					
BB	3	180	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	3	190	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	3	200	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25
BB	3	210	0.25	0.25	0.25	0.25	0.25	0.25	0.25			
IC	2	166	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	2	176	0.26	0.26	0.26	0.26						

INTERMEDIATE REPORT

BOD Settling Rate — LA-QUAL calibration for Bayou Blue
per day — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BB	1	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	161	0.00	0.00	0.00	0.00	0.00					
BB	3	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
IC	2	166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	176	0.00	0.00	0.00	0.00						

INTERMEDIATE REPORT

Ammonia Decay Rate — LA-QUAL calibration for Bayou Blue

per day — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.26
BB	1	11	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	21	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27
BB	1	31	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
BB	1	41	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
BB	1	51	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
BB	1	61	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26
BB	1	71	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	81	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	91	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	101	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	111	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	121	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	131	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	141	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	151	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	161	0.26	0.26	0.26	0.26	0.26					
BB	3	180	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	3	190	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25
BB	3	200	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	3	210	0.25	0.25	0.25	0.25	0.25	0.25	0.25			
IC	2	166	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
IC	2	176	0.25	0.25	0.25	0.25						

INTERMEDIATE REPORT

Sediment Oxygen Demand — LA-QUAL calibration for Bayou Blue

$g/m^2/d$ — FTN Field Survey calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.02	1.02
BB	1	11	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
BB	1	21	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
BB	1	31	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
BB	1	41	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	1	51	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	1	61	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	1	71	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
BB	1	81	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
BB	1	91	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
BB	1	101	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05

BB	1	111	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BB	1	121	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BB	1	131	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.06	1.06	1.06
BB	1	141	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BB	1	151	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BB	1	161	1.06	1.06	1.06	1.06	1.06					
BB	3	180	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05
BB	3	190	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04
BB	3	200	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03
BB	3	210	1.03	1.03	1.03	1.03	1.03	1.03	1.03			
IC	2	166	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
IC	2	176	1.49	1.49	1.49	1.49						

EXPANDED CAPSULE SUMMARY FOR BayouBlue#1

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 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	0.396	31.2	0.0	4.3	4.9	0.0	1.2	0.1	20.0													
1	BB 1	20.10	0.396	31.2	0.0	4.5	4.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.079	0.079	7.4	3.845	0.25	0.00	0.00	0.00	0.24	1.01
2	BB 1	20.00	0.397	31.2	0.0	4.6	5.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.079	0.079	7.4	3.847	0.25	0.00	0.00	0.00	0.25	1.01
3	BB 1	19.90	0.397	31.2	0.0	4.7	5.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.079	0.079	7.4	3.849	0.25	0.00	0.00	0.00	0.25	1.01
4	BB 1	19.80	0.397	31.2	0.0	4.8	5.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.079	0.079	7.4	3.850	0.25	0.00	0.00	0.00	0.25	1.01
5	BB 1	19.70	0.398	31.2	0.0	4.9	5.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.852	0.25	0.00	0.00	0.00	0.25	1.01
6	BB 1	19.60	0.398	31.2	0.0	5.0	5.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.854	0.25	0.00	0.00	0.00	0.25	1.01
7	BB 1	19.50	0.398	31.2	0.0	5.1	5.1	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.856	0.25	0.00	0.00	0.00	0.25	1.01
8	BB 1	19.40	0.398	31.2	0.0	5.2	5.1	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.857	0.25	0.00	0.00	0.00	0.25	1.01
9	BB 1	19.30	0.399	31.2	0.0	5.3	5.1	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.859	0.25	0.00	0.00	0.00	0.25	1.02
10	BB 1	19.20	0.399	31.2	0.0	5.3	5.1	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.861	0.25	0.00	0.00	0.00	0.26	1.02
11	BB 1	19.10	0.399	31.3	0.0	5.4	5.2	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.863	0.25	0.00	0.00	0.00	0.26	1.02
12	BB 1	19.00	0.400	31.3	0.0	5.5	5.2	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.865	0.25	0.00	0.00	0.00	0.26	1.02
13	BB 1	18.90	0.400	31.3	0.0	5.5	5.2	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.866	0.25	0.00	0.00	0.00	0.26	1.02
14	BB 1	18.80	0.400	31.3	0.0	5.6	5.2	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.868	0.25	0.00	0.00	0.00	0.26	1.02
15	BB 1	18.70	0.401	31.3	0.0	5.7	5.3	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.870	0.25	0.00	0.00	0.00	0.26	1.02
16	BB 1	18.60	0.401	31.3	0.0	5.7	5.3	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.872	0.25	0.00	0.00	0.00	0.26	1.02
17	BB 1	18.50	0.401	31.3	0.0	5.8	5.3	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.873	0.25	0.00	0.00	0.00	0.26	1.02
18	BB 1	18.40	0.401	31.3	0.0	5.8	5.3	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.875	0.25	0.00	0.00	0.00	0.26	1.02
19	BB 1	18.30	0.402	31.3	0.0	5.9	5.3	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.877	0.25	0.00	0.00	0.00	0.26	1.02
20	BB 1	18.20	0.402	31.3	0.0	5.9	5.4	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.879	0.25	0.00	0.00	0.00	0.26	1.02
21	BB 1	18.10	0.402	31.3	0.0	5.9	5.4	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.080	0.080	7.4	3.881	0.25	0.00	0.00	0.00	0.26	1.02
22	BB 1	18.00	0.403	31.3	0.0	6.0	5.4	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.882	0.25	0.00	0.00	0.00	0.26	1.02
23	BB 1	17.90	0.403	31.3	0.0	6.0	5.4	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.884	0.25	0.00	0.00	0.00	0.26	1.02
24	BB 1	17.80	0.403	31.3	0.0	6.1	5.5	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.886	0.25	0.00	0.00	0.00	0.26	1.02
25	BB 1	17.70	0.404	31.3	0.0	6.1	5.5	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.888	0.25	0.00	0.00	0.00	0.26	1.02
26	BB 1	17.60	0.404	31.3	0.0	6.1	5.5	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.889	0.25	0.00	0.00	0.00	0.26	1.02
27	BB 1	17.50	0.404	31.3	0.0	6.2	5.5	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.891	0.25	0.00	0.00	0.00	0.26	1.02
28	BB 1	17.40	0.404	31.3	0.0	6.2	5.5	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.893	0.25	0.00	0.00	0.00	0.27	1.02
29	BB 1	17.30	0.405	31.3	0.0	6.2	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.895	0.25	0.00	0.00	0.00	0.27	1.02
30	BB 1	17.20	0.405	31.3	0.0	6.2	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.897	0.25	0.00	0.00	0.00	0.27	1.02
31	BB 1	17.10	0.405	31.4	0.0	6.3	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.898	0.25	0.00	0.00	0.00	0.27	1.02
32	BB 1	17.00	0.406	31.4	0.0	6.3	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.900	0.25	0.00	0.00	0.00	0.27	1.02
33	BB 1	16.90	0.406	31.4	0.0	6.3	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.902	0.25	0.00	0.00	0.00	0.27	1.02

34 BB	1	16.80	0.406	31.4	0.0	6.3	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.904	0.25	0.00	0.00	0.00	0.27	1.02
35 BB	1	16.70	0.407	31.4	0.0	6.3	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.906	0.25	0.00	0.00	0.00	0.27	1.02
36 BB	1	16.60	0.407	31.4	0.0	6.3	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.907	0.25	0.00	0.00	0.00	0.27	1.02
37 BB	1	16.50	0.407	31.4	0.0	6.4	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.081	0.081	7.4	3.909	0.25	0.00	0.00	0.00	0.27	1.02
38 BB	1	16.40	0.408	31.4	0.0	6.4	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.911	0.25	0.00	0.00	0.00	0.27	1.02
39 BB	1	16.30	0.408	31.4	0.0	6.4	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.913	0.25	0.00	0.00	0.00	0.27	1.02
40 BB	1	16.20	0.408	31.4	0.0	6.4	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.914	0.25	0.00	0.00	0.00	0.27	1.02
41 BB	1	16.10	0.408	31.4	0.0	6.4	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.916	0.25	0.00	0.00	0.00	0.27	1.02
42 BB	1	16.00	0.409	31.4	0.0	6.4	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.918	0.25	0.00	0.00	0.00	0.27	1.03
43 BB	1	15.90	0.409	31.4	0.0	6.4	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.920	0.25	0.00	0.00	0.00	0.27	1.03
44 BB	1	15.80	0.409	31.4	0.0	6.5	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.922	0.25	0.00	0.00	0.00	0.27	1.03
45 BB	1	15.70	0.410	31.4	0.0	6.5	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.923	0.25	0.00	0.00	0.00	0.27	1.03
46 BB	1	15.60	0.410	31.4	0.0	6.5	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.925	0.25	0.00	0.00	0.00	0.27	1.03
47 BB	1	15.50	0.410	31.4	0.0	6.5	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.927	0.25	0.00	0.00	0.00	0.27	1.03
48 BB	1	15.40	0.411	31.4	0.0	6.5	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.929	0.25	0.00	0.00	0.00	0.27	1.03
49 BB	1	15.30	0.411	31.4	0.0	6.5	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.930	0.25	0.00	0.00	0.00	0.27	1.03
50 BB	1	15.20	0.411	31.4	0.0	6.5	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.932	0.25	0.00	0.00	0.00	0.27	1.03
51 BB	1	15.10	0.411	31.4	0.0	6.5	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.934	0.25	0.00	0.00	0.00	0.27	1.03
52 BB	1	15.00	0.412	31.5	0.0	6.5	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.936	0.25	0.00	0.00	0.00	0.27	1.03
53 BB	1	14.90	0.412	31.5	0.0	6.5	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.937	0.25	0.00	0.00	0.00	0.27	1.03
54 BB	1	14.80	0.412	31.5	0.0	6.5	6.1	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.082	0.082	7.4	3.939	0.25	0.00	0.00	0.00	0.27	1.03
55 BB	1	14.70	0.413	31.5	0.0	6.5	6.1	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.083	0.083	7.4	3.941	0.25	0.00	0.00	0.00	0.27	1.03
56 BB	1	14.60	0.413	31.5	0.0	6.5	6.1	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.083	0.083	7.4	3.943	0.25	0.00	0.00	0.00	0.27	1.03
57 BB	1	14.50	0.413	31.5	0.0	6.5	6.1	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.083	0.083	7.4	3.945	0.25	0.00	0.00	0.00	0.27	1.03
58 BB	1	14.40	0.414	31.5	0.0	6.5	6.1	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.083	0.083	7.4	3.946	0.25	0.00	0.00	0.00	0.27	1.03
59 BB	1	14.30	0.414	31.5	0.0	6.5	6.1	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.083	0.083	7.4	3.948	0.25	0.00	0.00	0.00	0.27	1.03
60 BB	1	14.20	0.414	31.5	0.0	6.5	6.2	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.083	0.083	7.4	3.950	0.25	0.00	0.00	0.00	0.27	1.03
61 BB	1	14.10	0.414	31.5	0.0	6.6	6.2	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.083	0.083	7.4	3.952	0.25	0.00	0.00	0.00	0.27	1.03
62 BB	1	14.00	0.415	31.5	0.0	6.6	6.2	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.083	0.083	7.4	3.953	0.25	0.00	0.00	0.00	0.27	1.03
DIVERSION # 063 (toICWW) LEAVES HERE																									
63 BB	1	13.90	0.019	31.5	0.0	6.5	6.2	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.004	0.004	7.4	1.728	0.25	0.00	0.00	0.00	0.27	1.03
64 BB	1	13.80	0.019	31.5	0.0	6.3	6.5	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.004	0.004	7.4	1.728	0.25	0.00	0.00	0.00	0.27	1.03
65 BB	1	13.70	0.019	31.5	0.0	6.0	6.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.004	0.004	7.4	1.728	0.25	0.00	0.00	0.00	0.27	1.03
66 BB	1	13.60	0.020	31.5	0.0	5.9	7.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.004	0.004	7.4	1.728	0.25	0.00	0.00	0.00	0.27	1.03
67 BB	1	13.50	0.020	31.5	0.0	5.8	7.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.004	0.004	7.4	1.729	0.25	0.00	0.00	0.00	0.26	1.03
68 BB	1	13.40	0.020	31.5	0.0	5.7	7.6	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.004	0.004	7.4	1.729	0.25	0.00	0.00	0.00	0.26	1.03
69 BB	1	13.30	0.021	31.5	0.0	5.6	7.8	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.004	0.004	7.4	1.729	0.25	0.00	0.00	0.00	0.26	1.03
70 BB	1	13.20	0.021	31.5	0.0	5.5	8.0	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.004	0.004	7.4	1.729	0.25	0.00	0.00	0.00	0.26	1.03
71 BB	1	13.10	0.021	31.5	0.0	5.5	8.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.004	0.004	7.4	1.729	0.25	0.00	0.00	0.00	0.26	1.03
72 BB	1	13.00	0.021	31.5	0.0	5.5	8.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.004	0.004	7.4	1.729	0.25	0.00	0.00	0.00	0.26	1.03

EXPANDED CAPSULE SUMMARY FOR BayouBlue#1

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-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
73 BB	1	12.90	0.022	31.6	0.0	5.4	8.4	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.004	0.004	7.4	1.729	0.26	0.00	0.00	0.00	0.26	1.04
74 BB	1	12.80	0.022	31.6	0.0	5.4	8.6	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.004	0.004	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04
75 BB	1	12.70	0.022	31.6	0.0	5.4	8.7	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.004	0.004	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04
76 BB	1	12.60	0.023	31.6	0.0	5.3	8.8	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04
77 BB	1	12.50	0.023	31.6	0.0	5.3	8.9	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04
78 BB	1	12.40	0.023	31.6	0.0	5.3	9.0	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04

79	BB	1	12.30	0.024	31.6	0.0	5.3	9.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04
80	BB	1	12.20	0.024	31.6	0.0	5.3	9.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.730	0.26	0.00	0.00	0.00	0.26	1.04
81	BB	1	12.10	0.024	31.6	0.0	5.2	9.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
82	BB	1	12.00	0.024	31.6	0.0	5.2	9.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
83	BB	1	11.90	0.025	31.6	0.0	5.2	9.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
84	BB	1	11.80	0.025	31.6	0.0	5.2	9.4	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
85	BB	1	11.70	0.025	31.6	0.0	5.2	9.5	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
86	BB	1	11.60	0.026	31.6	0.0	5.2	9.5	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
87	BB	1	11.50	0.026	31.6	0.0	5.2	9.6	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.731	0.26	0.00	0.00	0.00	0.26	1.04
88	BB	1	11.40	0.026	31.6	0.0	5.2	9.6	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.732	0.26	0.00	0.00	0.00	0.26	1.04
89	BB	1	11.30	0.027	31.6	0.0	5.2	9.6	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.4	1.732	0.26	0.00	0.00	0.00	0.26	1.04
90	BB	1	11.20	0.027	31.6	0.0	5.2	9.7	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.3	1.732	0.26	0.00	0.00	0.00	0.26	1.04
91	BB	1	11.10	0.027	31.6	0.0	5.2	9.7	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.3	1.732	0.26	0.00	0.00	0.00	0.26	1.04
92	BB	1	11.00	0.027	31.6	0.0	5.1	9.7	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.005	0.005	7.3	1.732	0.26	0.00	0.00	0.00	0.26	1.04
93	BB	1	10.90	0.028	31.7	0.0	5.1	9.8	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.732	0.26	0.00	0.00	0.00	0.26	1.04
94	BB	1	10.80	0.028	31.7	0.0	5.1	9.8	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.732	0.26	0.00	0.00	0.00	0.26	1.04
95	BB	1	10.70	0.028	31.7	0.0	5.1	9.8	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
96	BB	1	10.60	0.029	31.7	0.0	5.1	9.9	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
97	BB	1	10.50	0.029	31.7	0.0	5.1	9.9	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
98	BB	1	10.40	0.029	31.7	0.0	5.1	9.9	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
99	BB	1	10.30	0.030	31.7	0.0	5.1	9.9	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
100	BB	1	10.20	0.030	31.7	0.0	5.1	9.9	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
101	BB	1	10.10	0.030	31.7	0.0	5.1	9.9	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.733	0.26	0.00	0.00	0.00	0.26	1.04
102	BB	1	10.00	0.031	31.7	0.0	5.1	10.0	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.04
103	BB	1	9.90	0.031	31.7	0.0	5.1	10.0	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.04
104	BB	1	9.80	0.031	31.7	0.0	5.1	10.0	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.04
105	BB	1	9.70	0.031	31.7	0.0	5.1	10.0	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.05
106	BB	1	9.60	0.032	31.7	0.0	5.1	10.0	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.05
107	BB	1	9.50	0.032	31.7	0.0	5.1	10.0	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.05
108	BB	1	9.40	0.032	31.7	0.0	5.1	10.0	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.006	0.006	7.3	1.734	0.26	0.00	0.00	0.00	0.26	1.05
109	BB	1	9.30	0.033	31.7	0.0	5.1	10.0	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05
110	BB	1	9.20	0.033	31.7	0.0	5.1	10.1	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05
111	BB	1	9.10	0.033	31.7	0.0	5.1	10.1	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05
112	BB	1	9.00	0.034	31.7	0.0	5.1	10.1	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05
113	BB	1	8.90	0.034	31.7	0.0	5.1	10.1	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05
114	BB	1	8.80	0.034	31.8	0.0	5.1	10.1	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05
115	BB	1	8.70	0.034	31.8	0.0	5.1	10.1	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.735	0.26	0.00	0.00	0.00	0.26	1.05
116	BB	1	8.60	0.035	31.8	0.0	5.1	10.1	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05
117	BB	1	8.50	0.035	31.8	0.0	5.0	10.2	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05
118	BB	1	8.40	0.035	31.8	0.0	5.0	10.4	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05
WASTELOAD # 119 (LAG541539) ENTERS HERE																									
WASTELOAD # 119 (LA0084077) ENTERS HERE																									
119	BB	1	8.30	0.036	31.8	0.0	5.0	10.8	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05
120	BB	1	8.20	0.036	31.8	0.0	5.0	10.8	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05
121	BB	1	8.10	0.037	31.8	0.0	5.0	10.8	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05
122	BB	1	8.00	0.037	31.8	0.0	5.0	10.7	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.736	0.26	0.00	0.00	0.00	0.26	1.05
123	BB	1	7.90	0.037	31.8	0.0	5.0	10.7	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.007	0.007	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05
124	BB	1	7.80	0.038	31.8	0.0	5.0	10.7	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05
125	BB	1	7.70	0.038	31.8	0.0	5.0	10.7	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05
126	BB	1	7.60	0.038	31.8	0.0	5.0	10.6	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05

127	BB	1	7.50	0.038	31.8	0.0	5.0	10.6	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05
128	BB	1	7.40	0.039	31.8	0.0	5.0	10.6	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05
129	BB	1	7.30	0.039	31.8	0.0	5.0	10.6	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.737	0.26	0.00	0.00	0.00	0.26	1.05
130	BB	1	7.20	0.039	31.8	0.0	5.0	10.6	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.05
131	BB	1	7.10	0.040	31.8	0.0	5.0	10.6	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.05
132	BB	1	7.00	0.040	31.8	0.0	5.0	10.5	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.05
133	BB	1	6.90	0.040	31.8	0.0	5.0	10.5	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.05
134	BB	1	6.80	0.041	31.8	0.0	5.0	10.5	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.05
135	BB	1	6.70	0.041	31.9	0.0	5.0	10.5	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.05
136	BB	1	6.60	0.041	31.9	0.0	5.0	10.5	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.738	0.26	0.00	0.00	0.00	0.26	1.06
137	BB	1	6.50	0.042	31.9	0.0	5.0	10.5	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
138	BB	1	6.40	0.042	31.9	0.0	5.0	10.5	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
139	BB	1	6.30	0.042	31.9	0.0	5.0	10.4	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
140	BB	1	6.20	0.042	31.9	0.0	5.0	10.4	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.008	0.008	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
141	BB	1	6.10	0.043	31.9	0.0	5.0	10.4	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
142	BB	1	6.00	0.043	31.9	0.0	5.0	10.4	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
143	BB	1	5.90	0.043	31.9	0.0	5.0	10.4	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.739	0.26	0.00	0.00	0.00	0.26	1.06
144	BB	1	5.80	0.044	31.9	0.0	5.0	10.4	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06

EXPANDED CAPSULE SUMMARY FOR BayouBlue#1

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	DECA	NH3 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
145	BB	1	5.70	0.044	31.9	0.0	5.0	10.4	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06
146	BB	1	5.60	0.044	31.9	0.0	5.0	10.4	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06
147	BB	1	5.50	0.045	31.9	0.0	5.0	10.4	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06
148	BB	1	5.40	0.045	31.9	0.0	5.0	10.4	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06
149	BB	1	5.30	0.045	31.9	0.0	5.0	10.4	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06
150	BB	1	5.20	0.045	31.9	0.0	5.0	10.3	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.740	0.26	0.00	0.00	0.00	0.26	1.06
151	BB	1	5.10	0.046	31.9	0.0	5.0	10.3	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06
152	BB	1	5.00	0.046	31.9	0.0	5.0	10.3	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06
153	BB	1	4.90	0.046	31.9	0.0	5.0	10.3	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06
154	BB	1	4.80	0.047	31.9	0.0	5.0	10.3	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06
155	BB	1	4.70	0.047	32.0	0.0	5.0	10.3	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06
156	BB	1	4.60	0.047	32.0	0.0	5.0	10.3	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.009	0.009	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06
157	BB	1	4.50	0.048	32.0	0.0	5.0	10.3	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.010	0.010	7.3	1.741	0.26	0.00	0.00	0.00	0.26	1.06
158	BB	1	4.40	0.048	32.0	0.0	5.0	10.3	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
159	BB	1	4.30	0.048	32.0	0.0	5.0	10.3	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
160	BB	1	4.20	0.048	32.0	0.0	5.0	10.3	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
161	BB	1	4.10	0.049	32.0	0.0	5.0	10.3	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
162	BB	1	4.00	0.049	32.0	0.0	5.0	10.2	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
163	BB	1	3.90	0.049	32.0	0.0	5.0	10.1	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
164	BB	1	3.80	0.050	32.0	0.0	4.9	9.6	0.0	0.9	0.1	20.0	0.5	0.50	10.0	0.010	0.010	7.3	1.742	0.26	0.00	0.00	0.00	0.26	1.06
165	BB	1	3.70	0.050	32.0	0.0	4.5	8.3	0.0	1.0	0.1	20.0	0.5	0.50	10.0	0.010	0.010	7.3	1.743	0.26	0.00	0.00	0.00	0.26	1.06

TRIBUTARY # 166 (ICWWtoBlue) ENTERS HERE

180	BB	3	3.60	0.446	32.0	0.0	4.2	7.7	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.25	1.06
181	BB	3	3.50	0.446	32.0	0.0	4.3	7.9	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.968	0.26	0.00	0.00	0.00	0.26	1.06
182	BB	3	3.40	0.446	32.0	0.0	4.3	8.0	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.967	0.26	0.00	0.00	0.00	0.26	1.06
183	BB	3	3.30	0.446	31.9	0.0	4.4	8.2	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.967	0.26	0.00	0.00	0.00	0.26	1.06
184	BB	3	3.20	0.446	31.9	0.0	4.4	8.4	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.967	0.26	0.00	0.00	0.00	0.26	1.06
185	BB	3	3.10	0.446	31.9	0.0	4.4	8.5	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.966	0.26	0.00	0.00	0.00	0.26	1.06

186	BB	3	3.00	0.446	31.9	0.0	4.5	8.7	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.966	0.26	0.00	0.00	0.00	0.26	1.06
187	BB	3	2.90	0.446	31.9	0.0	4.5	8.8	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.966	0.26	0.00	0.00	0.00	0.26	1.06
188	BB	3	2.80	0.446	31.9	0.0	4.5	8.9	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.966	0.26	0.00	0.00	0.00	0.26	1.05
189	BB	3	2.70	0.446	31.8	0.0	4.5	9.1	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.965	0.26	0.00	0.00	0.00	0.26	1.05
190	BB	3	2.60	0.446	31.8	0.0	4.5	9.2	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.965	0.26	0.00	0.00	0.00	0.26	1.05
191	BB	3	2.50	0.446	31.8	0.0	4.5	9.3	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.965	0.26	0.00	0.00	0.00	0.26	1.05
192	BB	3	2.40	0.446	31.8	0.0	4.5	9.4	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.965	0.26	0.00	0.00	0.00	0.26	1.05
193	BB	3	2.30	0.446	31.8	0.0	4.4	9.5	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.964	0.26	0.00	0.00	0.00	0.26	1.05
194	BB	3	2.20	0.446	31.8	0.0	4.4	9.6	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.964	0.26	0.00	0.00	0.00	0.25	1.05
195	BB	3	2.10	0.446	31.7	0.0	4.4	9.8	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.964	0.26	0.00	0.00	0.00	0.25	1.05
196	BB	3	2.00	0.446	31.7	0.0	4.4	9.9	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.964	0.26	0.00	0.00	0.00	0.25	1.05
197	BB	3	1.90	0.446	31.7	0.0	4.4	10.0	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.963	0.26	0.00	0.00	0.00	0.25	1.05
198	BB	3	1.80	0.446	31.7	0.0	4.4	10.0	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.963	0.26	0.00	0.00	0.00	0.25	1.04
199	BB	3	1.70	0.446	31.7	0.0	4.4	10.1	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.963	0.26	0.00	0.00	0.00	0.25	1.04
200	BB	3	1.60	0.446	31.7	0.0	4.3	10.2	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.963	0.26	0.00	0.00	0.00	0.25	1.04
201	BB	3	1.50	0.446	31.6	0.0	4.3	10.3	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.3	0.962	0.26	0.00	0.00	0.00	0.25	1.04
202	BB	3	1.40	0.446	31.6	0.0	4.3	10.4	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.962	0.26	0.00	0.00	0.00	0.25	1.04
203	BB	3	1.30	0.446	31.6	0.0	4.3	10.5	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.962	0.26	0.00	0.00	0.00	0.25	1.04
204	BB	3	1.20	0.446	31.6	0.0	4.3	10.5	0.0	1.0	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.961	0.26	0.00	0.00	0.00	0.25	1.04
205	BB	3	1.10	0.446	31.6	0.0	4.3	10.6	0.0	0.9	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.961	0.26	0.00	0.00	0.00	0.25	1.04
206	BB	3	1.00	0.446	31.6	0.0	4.2	10.7	0.0	0.9	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.961	0.26	0.00	0.00	0.00	0.25	1.04
207	BB	3	0.90	0.446	31.5	0.0	4.2	10.8	0.0	0.9	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.961	0.25	0.00	0.00	0.00	0.25	1.03
208	BB	3	0.80	0.446	31.5	0.0	4.2	10.8	0.0	0.9	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.960	0.25	0.00	0.00	0.00	0.25	1.03
209	BB	3	0.70	0.446	31.5	0.0	4.2	10.9	0.0	0.9	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.960	0.25	0.00	0.00	0.00	0.25	1.03
210	BB	3	0.60	0.446	31.5	0.0	4.2	10.9	0.0	0.9	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.960	0.25	0.00	0.00	0.00	0.25	1.03
211	BB	3	0.50	0.446	31.5	0.0	4.2	11.0	0.0	0.9	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.960	0.25	0.00	0.00	0.00	0.25	1.03
212	BB	3	0.40	0.446	31.5	0.0	4.2	11.0	0.0	0.9	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.959	0.25	0.00	0.00	0.00	0.25	1.03
213	BB	3	0.30	0.446	31.4	0.0	4.2	10.9	0.0	0.9	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.959	0.25	0.00	0.00	0.00	0.25	1.03
214	BB	3	0.20	0.446	31.4	0.0	4.2	10.6	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.959	0.25	0.00	0.00	0.00	0.25	1.03
215	BB	3	0.10	0.446	31.4	0.0	4.3	9.7	0.0	0.7	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.959	0.25	0.00	0.00	0.00	0.25	1.03
216	BB	3	0.00	0.446	31.4	0.0	4.6	7.3	0.0	0.4	0.1	20.0	0.5	0.90	65.5	0.008	0.008	7.4	0.958	0.25	0.00	0.00	0.00	0.25	1.03

EXPANDED CAPSULE SUMMARY FOR ICWWtoBlue

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	BOD1	BOD2	ORG-N	NH3	ADVEC CHLA	MEAN DISP	DO DEPTH	REAER WIDTH	BOD1 VELO	BOD1 VELO	BOD2 SAT	BOD2 RATE	NH3 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	g/m²/d
166	IC	2	1.30	0.396	32.0	0.0	3.6	4.4	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.24	1.49
167	IC	2	1.20	0.396	32.0	0.0	3.7	4.7	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.49
168	IC	2	1.10	0.396	32.0	0.0	3.8	5.0	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.49
169	IC	2	1.00	0.396	32.0	0.0	3.9	5.2	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.49
170	IC	2	0.90	0.396	32.0	0.0	3.9	5.5	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.49
171	IC	2	0.80	0.396	32.0	0.0	4.0	5.7	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.49
172	IC	2	0.70	0.396	32.0	0.0	4.0	5.9	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.49
173	IC	2	0.60	0.396	32.0	0.0	4.0	6.1	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.49
174	IC	2	0.50	0.396	32.0	0.0	4.0	6.3	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.49
175	IC	2	0.40	0.396	32.0	0.0	4.0	6.5	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.49
176	IC	2	0.30	0.396	32.0	0.0	4.0	6.7	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.49
177	IC	2	0.20	0.396	32.0	0.0	4.0	6.9	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.49
178	IC	2	0.10	0.396	32.0	0.0	4.1	7.1	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.49
179	IC	2	0.00	0.396	32.0	0.0	4.1	7.4	0.0	1.1	0.1	20.0	0.5	1.40	44.0	0.006	0.006	7.3	0.622	0.26	0.00	0.00	0.00	0.25	1.49

SPECIAL REPORT: BayouBlue#1

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 #/100mL	MACRO *	COLI	NCM
1	20.100	31.20	0.0	0.0	0.0	4.46	4.93	0.00	4.93	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00		
2	20.000	31.21	0.0	0.0	0.0	4.58	4.95	0.00	4.95	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00		
3	19.900	31.21	0.0	0.0	0.0	4.69	4.97	0.00	4.97	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00		
4	19.800	31.22	0.0	0.0	0.0	4.80	5.00	0.00	5.00	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00		
5	19.700	31.22	0.0	0.0	0.0	4.90	5.02	0.00	5.02	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00		
6	19.600	31.23	0.0	0.0	0.0	5.00	5.05	0.00	5.05	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00		
7	19.500	31.23	0.0	0.0	0.0	5.09	5.07	0.00	5.07	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00		
8	19.400	31.24	0.0	0.0	0.0	5.18	5.09	0.00	5.09	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00		
9	19.300	31.24	0.0	0.0	0.0	5.26	5.12	0.00	5.12	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00		
10	19.200	31.25	0.0	0.0	0.0	5.34	5.14	0.00	5.14	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00		
11	19.100	31.25	0.0	0.0	0.0	5.41	5.16	0.00	5.16	0.00	1.20	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00		
12	19.000	31.26	0.0	0.0	0.0	5.48	5.19	0.00	5.19	0.00	1.19	0.11	0.00	1.31	0.00	20.0	0.0	0.	0.00		
13	18.900	31.26	0.0	0.0	0.0	5.54	5.21	0.00	5.21	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
14	18.800	31.27	0.0	0.0	0.0	5.60	5.23	0.00	5.23	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
15	18.700	31.27	0.0	0.0	0.0	5.66	5.25	0.00	5.25	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
16	18.600	31.28	0.0	0.0	0.0	5.72	5.28	0.00	5.28	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
17	18.500	31.28	0.0	0.0	0.0	5.77	5.30	0.00	5.30	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
18	18.400	31.29	0.0	0.0	0.0	5.82	5.32	0.00	5.32	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
19	18.300	31.29	0.0	0.0	0.0	5.86	5.34	0.00	5.34	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
20	18.200	31.30	0.0	0.0	0.0	5.91	5.37	0.00	5.37	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
21	18.100	31.30	0.0	0.0	0.0	5.95	5.39	0.00	5.39	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
22	18.000	31.31	0.0	0.0	0.0	5.99	5.41	0.00	5.41	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
23	17.900	31.31	0.0	0.0	0.0	6.02	5.43	0.00	5.43	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
24	17.800	31.32	0.0	0.0	0.0	6.06	5.45	0.00	5.45	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
25	17.700	31.32	0.0	0.0	0.0	6.09	5.47	0.00	5.47	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
26	17.600	31.33	0.0	0.0	0.0	6.12	5.50	0.00	5.50	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
27	17.500	31.33	0.0	0.0	0.0	6.15	5.52	0.00	5.52	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
28	17.400	31.34	0.0	0.0	0.0	6.18	5.54	0.00	5.54	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
29	17.300	31.34	0.0	0.0	0.0	6.20	5.56	0.00	5.56	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
30	17.200	31.35	0.0	0.0	0.0	6.23	5.58	0.00	5.58	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
31	17.100	31.35	0.0	0.0	0.0	6.25	5.60	0.00	5.60	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
32	17.000	31.36	0.0	0.0	0.0	6.27	5.62	0.00	5.62	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
33	16.900	31.36	0.0	0.0	0.0	6.29	5.64	0.00	5.64	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
34	16.800	31.36	0.0	0.0	0.0	6.31	5.66	0.00	5.66	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
35	16.700	31.37	0.0	0.0	0.0	6.33	5.68	0.00	5.68	0.00	1.19	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
36	16.600	31.37	0.0	0.0	0.0	6.35	5.70	0.00	5.70	0.00	1.18	0.11	0.00	1.30	0.00	20.0	0.0	0.	0.00		
37	16.500	31.38	0.0	0.0	0.0	6.36	5.72	0.00	5.72	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00		
38	16.400	31.38	0.0	0.0	0.0	6.38	5.74	0.00	5.74	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00		
39	16.300	31.39	0.0	0.0	0.0	6.39	5.76	0.00	5.76	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00		
40	16.200	31.39	0.0	0.0	0.0	6.41	5.78	0.00	5.78	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00		
41	16.100	31.40	0.0	0.0	0.0	6.42	5.80	0.00	5.80	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00		
42	16.000	31.40	0.0	0.0	0.0	6.43	5.82	0.00	5.82	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00		
43	15.900	31.41	0.0	0.0	0.0	6.44	5.84	0.00	5.84	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00		
44	15.800	31.41	0.0	0.0	0.0	6.45	5.86	0.00	5.86	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00		
45	15.700	31.42	0.0	0.0	0.0	6.46	5.88	0.00	5.88	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00		
46	15.600	31.42	0.0	0.0	0.0	6.47	5.90	0.00	5.90	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00		
47	15.500	31.43	0.0	0.0	0.0	6.48	5.92	0.00	5.92	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00		

48	15.400	31.43	0.0	0.0	0.0	6.49	5.94	0.00	5.94	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
49	15.300	31.44	0.0	0.0	0.0	6.49	5.96	0.00	5.96	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
50	15.200	31.44	0.0	0.0	0.0	6.50	5.98	0.00	5.98	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
51	15.100	31.45	0.0	0.0	0.0	6.51	6.00	0.00	6.00	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
52	15.000	31.45	0.0	0.0	0.0	6.51	6.01	0.00	6.01	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
53	14.900	31.46	0.0	0.0	0.0	6.52	6.03	0.00	6.03	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
54	14.800	31.46	0.0	0.0	0.0	6.52	6.05	0.00	6.05	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
55	14.700	31.47	0.0	0.0	0.0	6.53	6.07	0.00	6.07	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
56	14.600	31.47	0.0	0.0	0.0	6.53	6.09	0.00	6.09	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
57	14.500	31.48	0.0	0.0	0.0	6.54	6.11	0.00	6.11	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
58	14.400	31.48	0.0	0.0	0.0	6.54	6.12	0.00	6.12	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
59	14.300	31.49	0.0	0.0	0.0	6.55	6.14	0.00	6.14	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
60	14.200	31.49	0.0	0.0	0.0	6.55	6.16	0.00	6.16	0.00	1.18	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
61	14.100	31.50	0.0	0.0	0.0	6.55	6.18	0.00	6.18	0.00	1.17	0.11	0.00	1.29	0.00	20.0	0.0	0.	0.00
62	14.000	31.50	0.0	0.0	0.0	6.55	6.20	0.00	6.20	0.00	1.17	0.11	0.00	1.28	0.00	20.0	0.0	0.	0.00
63	13.900	31.51	0.0	0.0	0.0	6.52	6.23	0.00	6.23	0.00	1.17	0.11	0.00	1.28	0.00	20.0	0.0	0.	0.00
64	13.800	31.51	0.0	0.0	0.0	6.25	6.55	0.00	6.55	0.00	1.17	0.11	0.00	1.28	0.00	20.0	0.0	0.	0.00
65	13.700	31.52	0.0	0.0	0.0	6.05	6.84	0.00	6.84	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00
66	13.600	31.52	0.0	0.0	0.0	5.90	7.11	0.00	7.11	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
67	13.500	31.52	0.0	0.0	0.0	5.78	7.35	0.00	7.35	0.00	1.14	0.11	0.00	1.25	0.00	20.0	0.0	0.	0.00
68	13.400	31.53	0.0	0.0	0.0	5.68	7.57	0.00	7.57	0.00	1.14	0.11	0.00	1.25	0.00	20.0	0.0	0.	0.00
69	13.300	31.53	0.0	0.0	0.0	5.61	7.77	0.00	7.77	0.00	1.13	0.11	0.00	1.24	0.00	20.0	0.0	0.	0.00
70	13.200	31.54	0.0	0.0	0.0	5.55	7.95	0.00	7.95	0.00	1.12	0.11	0.00	1.23	0.00	20.0	0.0	0.	0.00
71	13.100	31.54	0.0	0.0	0.0	5.50	8.12	0.00	8.12	0.00	1.12	0.11	0.00	1.23	0.00	20.0	0.0	0.	0.00
72	13.000	31.55	0.0	0.0	0.0	5.45	8.28	0.00	8.28	0.00	1.11	0.11	0.00	1.22	0.00	20.0	0.0	0.	0.00
73	12.900	31.55	0.0	0.0	0.0	5.42	8.42	0.00	8.42	0.00	1.10	0.11	0.00	1.21	0.00	20.0	0.0	0.	0.00
74	12.800	31.56	0.0	0.0	0.0	5.39	8.55	0.00	8.55	0.00	1.10	0.11	0.00	1.21	0.00	20.0	0.0	0.	0.00
75	12.700	31.56	0.0	0.0	0.0	5.36	8.67	0.00	8.67	0.00	1.09	0.11	0.00	1.20	0.00	20.0	0.0	0.	0.00
76	12.600	31.57	0.0	0.0	0.0	5.34	8.78	0.00	8.78	0.00	1.09	0.11	0.00	1.20	0.00	20.0	0.0	0.	0.00
77	12.500	31.57	0.0	0.0	0.0	5.31	8.88	0.00	8.88	0.00	1.08	0.11	0.00	1.19	0.00	20.0	0.0	0.	0.00
78	12.400	31.58	0.0	0.0	0.0	5.29	8.98	0.00	8.98	0.00	1.08	0.11	0.00	1.19	0.00	20.0	0.0	0.	0.00
79	12.300	31.58	0.0	0.0	0.0	5.28	9.06	0.00	9.06	0.00	1.07	0.11	0.00	1.18	0.00	20.0	0.0	0.	0.00
80	12.200	31.59	0.0	0.0	0.0	5.26	9.14	0.00	9.14	0.00	1.07	0.11	0.00	1.18	0.00	20.0	0.0	0.	0.00
81	12.100	31.59	0.0	0.0	0.0	5.25	9.22	0.00	9.22	0.00	1.06	0.11	0.00	1.17	0.00	20.0	0.0	0.	0.00
82	12.000	31.60	0.0	0.0	0.0	5.23	9.29	0.00	9.29	0.00	1.06	0.11	0.00	1.17	0.00	20.0	0.0	0.	0.00
83	11.900	31.60	0.0	0.0	0.0	5.22	9.35	0.00	9.35	0.00	1.05	0.11	0.00	1.16	0.00	20.0	0.0	0.	0.00
84	11.800	31.61	0.0	0.0	0.0	5.21	9.41	0.00	9.41	0.00	1.05	0.11	0.00	1.16	0.00	20.0	0.0	0.	0.00
85	11.700	31.61	0.0	0.0	0.0	5.20	9.46	0.00	9.46	0.00	1.05	0.11	0.00	1.15	0.00	20.0	0.0	0.	0.00
86	11.600	31.62	0.0	0.0	0.0	5.19	9.51	0.00	9.51	0.00	1.04	0.11	0.00	1.15	0.00	20.0	0.0	0.	0.00
87	11.500	31.62	0.0	0.0	0.0	5.18	9.56	0.00	9.56	0.00	1.04	0.11	0.00	1.14	0.00	20.0	0.0	0.	0.00
88	11.400	31.63	0.0	0.0	0.0	5.17	9.60	0.00	9.60	0.00	1.03	0.11	0.00	1.14	0.00	20.0	0.0	0.	0.00
89	11.300	31.63	0.0	0.0	0.0	5.16	9.64	0.00	9.64	0.00	1.03	0.11	0.00	1.14	0.00	20.0	0.0	0.	0.00
90	11.200	31.64	0.0	0.0	0.0	5.16	9.68	0.00	9.68	0.00	1.03	0.11	0.00	1.13	0.00	20.0	0.0	0.	0.00
91	11.100	31.64	0.0	0.0	0.0	5.15	9.71	0.00	9.71	0.00	1.02	0.10	0.00	1.13	0.00	20.0	0.0	0.	0.00
92	11.000	31.65	0.0	0.0	0.0	5.14	9.74	0.00	9.74	0.00	1.02	0.10	0.00	1.12	0.00	20.0	0.0	0.	0.00
93	10.900	31.65	0.0	0.0	0.0	5.14	9.77	0.00	9.77	0.00	1.02	0.10	0.00	1.12	0.00	20.0	0.0	0.	0.00
94	10.800	31.66	0.0	0.0	0.0	5.13	9.80	0.00	9.80	0.00	1.01	0.10	0.00	1.12	0.00	20.0	0.0	0.	0.00
95	10.700	31.66	0.0	0.0	0.0	5.13	9.83	0.00	9.83	0.00	1.01	0.10	0.00	1.11	0.00	20.0	0.0	0.	0.00
96	10.600	31.67	0.0	0.0	0.0	5.12	9.85	0.00	9.85	0.00	1.01	0.10	0.00	1.11	0.00	20.0	0.0	0.	0.00
97	10.500	31.67	0.0	0.0	0.0	5.12	9.87	0.00	9.87	0.00	1.00	0.10	0.00	1.11	0.00	20.0	0.0	0.	0.00

98	10.400	31.68	0.0	0.0	0.0	5.11	9.89	0.00	9.89	0.00	1.00	0.10	0.00	1.10	0.00	20.0	0.0	0.	0.00
99	10.300	31.68	0.0	0.0	0.0	5.11	9.91	0.00	9.91	0.00	1.00	0.10	0.00	1.10	0.00	20.0	0.0	0.	0.00
100	10.200	31.68	0.0	0.0	0.0	5.10	9.93	0.00	9.93	0.00	1.00	0.10	0.00	1.10	0.00	20.0	0.0	0.	0.00
101	10.100	31.69	0.0	0.0	0.0	5.10	9.95	0.00	9.95	0.00	0.99	0.10	0.00	1.10	0.00	20.0	0.0	0.	0.00
102	10.000	31.69	0.0	0.0	0.0	5.10	9.96	0.00	9.96	0.00	0.99	0.10	0.00	1.09	0.00	20.0	0.0	0.	0.00
103	9.900	31.70	0.0	0.0	0.0	5.09	9.98	0.00	9.98	0.00	0.99	0.10	0.00	1.09	0.00	20.0	0.0	0.	0.00
104	9.800	31.70	0.0	0.0	0.0	5.09	9.99	0.00	9.99	0.00	0.99	0.10	0.00	1.09	0.00	20.0	0.0	0.	0.00
105	9.700	31.71	0.0	0.0	0.0	5.09	10.01	0.00	10.01	0.00	0.98	0.10	0.00	1.08	0.00	20.0	0.0	0.	0.00
106	9.600	31.71	0.0	0.0	0.0	5.08	10.02	0.00	10.02	0.00	0.98	0.10	0.00	1.08	0.00	20.0	0.0	0.	0.00
107	9.500	31.72	0.0	0.0	0.0	5.08	10.03	0.00	10.03	0.00	0.98	0.10	0.00	1.08	0.00	20.0	0.0	0.	0.00
108	9.400	31.72	0.0	0.0	0.0	5.08	10.04	0.00	10.04	0.00	0.98	0.10	0.00	1.08	0.00	20.0	0.0	0.	0.00
109	9.300	31.73	0.0	0.0	0.0	5.08	10.05	0.00	10.05	0.00	0.97	0.10	0.00	1.07	0.00	20.0	0.0	0.	0.00
110	9.200	31.73	0.0	0.0	0.0	5.07	10.06	0.00	10.06	0.00	0.97	0.10	0.00	1.07	0.00	20.0	0.0	0.	0.00
111	9.100	31.74	0.0	0.0	0.0	5.07	10.07	0.00	10.07	0.00	0.97	0.10	0.00	1.07	0.00	20.0	0.0	0.	0.00
112	9.000	31.74	0.0	0.0	0.0	5.07	10.07	0.00	10.07	0.00	0.97	0.10	0.00	1.07	0.00	20.0	0.0	0.	0.00
113	8.900	31.75	0.0	0.0	0.0	5.07	10.08	0.00	10.08	0.00	0.97	0.10	0.00	1.07	0.00	20.0	0.0	0.	0.00
114	8.800	31.75	0.0	0.0	0.0	5.06	10.09	0.00	10.09	0.00	0.96	0.10	0.00	1.06	0.00	20.0	0.0	0.	0.00
115	8.700	31.76	0.0	0.0	0.0	5.06	10.11	0.00	10.11	0.00	0.96	0.10	0.00	1.06	0.00	20.0	0.0	0.	0.00
116	8.600	31.76	0.0	0.0	0.0	5.06	10.14	0.00	10.14	0.00	0.96	0.10	0.00	1.06	0.00	20.0	0.0	0.	0.00
117	8.500	31.77	0.0	0.0	0.0	5.05	10.22	0.00	10.22	0.00	0.96	0.10	0.00	1.06	0.00	20.0	0.0	0.	0.00
118	8.400	31.77	0.0	0.0	0.0	5.04	10.39	0.00	10.39	0.00	0.96	0.10	0.00	1.06	0.00	20.0	0.0	0.	0.00
119	8.300	31.78	0.0	0.0	0.0	5.02	10.81	0.00	10.81	0.00	0.96	0.11	0.00	1.07	0.00	20.0	0.0	0.	0.00
120	8.200	31.78	0.0	0.0	0.0	5.00	10.78	0.00	10.78	0.00	0.96	0.11	0.00	1.07	0.00	20.0	0.0	0.	0.00
121	8.100	31.79	0.0	0.0	0.0	4.99	10.76	0.00	10.76	0.00	0.95	0.11	0.00	1.07	0.00	20.0	0.0	0.	0.00
122	8.000	31.79	0.0	0.0	0.0	4.98	10.73	0.00	10.73	0.00	0.95	0.11	0.00	1.06	0.00	20.0	0.0	0.	0.00
123	7.900	31.80	0.0	0.0	0.0	4.98	10.71	0.00	10.71	0.00	0.95	0.11	0.00	1.06	0.00	20.0	0.0	0.	0.00
124	7.800	31.80	0.0	0.0	0.0	4.97	10.69	0.00	10.69	0.00	0.95	0.11	0.00	1.06	0.00	20.0	0.0	0.	0.00
125	7.700	31.81	0.0	0.0	0.0	4.97	10.66	0.00	10.66	0.00	0.95	0.11	0.00	1.06	0.00	20.0	0.0	0.	0.00
126	7.600	31.81	0.0	0.0	0.0	4.97	10.64	0.00	10.64	0.00	0.95	0.11	0.00	1.05	0.00	20.0	0.0	0.	0.00
127	7.500	31.82	0.0	0.0	0.0	4.97	10.62	0.00	10.62	0.00	0.94	0.11	0.00	1.05	0.00	20.0	0.0	0.	0.00
128	7.400	31.82	0.0	0.0	0.0	4.97	10.61	0.00	10.61	0.00	0.94	0.11	0.00	1.05	0.00	20.0	0.0	0.	0.00
129	7.300	31.83	0.0	0.0	0.0	4.97	10.59	0.00	10.59	0.00	0.94	0.11	0.00	1.05	0.00	20.0	0.0	0.	0.00
130	7.200	31.83	0.0	0.0	0.0	4.97	10.57	0.00	10.57	0.00	0.94	0.11	0.00	1.05	0.00	20.0	0.0	0.	0.00
131	7.100	31.84	0.0	0.0	0.0	4.97	10.56	0.00	10.56	0.00	0.94	0.10	0.00	1.04	0.00	20.0	0.0	0.	0.00
132	7.000	31.84	0.0	0.0	0.0	4.97	10.54	0.00	10.54	0.00	0.94	0.10	0.00	1.04	0.00	20.0	0.0	0.	0.00
133	6.900	31.84	0.0	0.0	0.0	4.97	10.52	0.00	10.52	0.00	0.94	0.10	0.00	1.04	0.00	20.0	0.0	0.	0.00
134	6.800	31.85	0.0	0.0	0.0	4.97	10.51	0.00	10.51	0.00	0.93	0.10	0.00	1.04	0.00	20.0	0.0	0.	0.00
135	6.700	31.85	0.0	0.0	0.0	4.97	10.50	0.00	10.50	0.00	0.93	0.10	0.00	1.04	0.00	20.0	0.0	0.	0.00
136	6.600	31.86	0.0	0.0	0.0	4.97	10.48	0.00	10.48	0.00	0.93	0.10	0.00	1.03	0.00	20.0	0.0	0.	0.00
137	6.500	31.86	0.0	0.0	0.0	4.97	10.47	0.00	10.47	0.00	0.93	0.10	0.00	1.03	0.00	20.0	0.0	0.	0.00
138	6.400	31.87	0.0	0.0	0.0	4.98	10.46	0.00	10.46	0.00	0.93	0.10	0.00	1.03	0.00	20.0	0.0	0.	0.00
139	6.300	31.87	0.0	0.0	0.0	4.98	10.45	0.00	10.45	0.00	0.93	0.10	0.00	1.03	0.00	20.0	0.0	0.	0.00
140	6.200	31.88	0.0	0.0	0.0	4.98	10.44	0.00	10.44	0.00	0.93	0.10	0.00	1.03	0.00	20.0	0.0	0.	0.00
141	6.100	31.88	0.0	0.0	0.0	4.98	10.43	0.00	10.43	0.00	0.93	0.10	0.00	1.03	0.00	20.0	0.0	0.	0.00
142	6.000	31.89	0.0	0.0	0.0	4.98	10.42	0.00	10.42	0.00	0.92	0.10	0.00	1.02	0.00	20.0	0.0	0.	0.00
143	5.900	31.89	0.0	0.0	0.0	4.98	10.41	0.00	10.41	0.00	0.92	0.10	0.00	1.02	0.00	20.0	0.0	0.	0.00
144	5.800	31.90	0.0	0.0	0.0	4.98	10.40	0.00	10.40	0.00	0.92	0.10	0.00	1.02	0.00	20.0	0.0	0.	0.00
145	5.700	31.90	0.0	0.0	0.0	4.98	10.39	0.00	10.39	0.00	0.92	0.10	0.00	1.02	0.00	20.0	0.0	0.	0.00
146	5.600	31.91	0.0	0.0	0.0	4.98	10.38	0.00	10.38	0.00	0.92	0.10	0.00	1.02	0.00	20.0	0.0	0.	0.00
147	5.500	31.91	0.0	0.0	0.0	4.98	10.37	0.00	10.37	0.00	0.92	0.10	0.00	1.02	0.00	20.0	0.0	0.	0.00

148	5.400	31.92	0.0	0.0	0.0	4.98	10.36	0.00	10.36	0.00	0.92	0.10	0.00	1.02	0.00	20.0	0.0	0.	0.00
149	5.300	31.92	0.0	0.0	0.0	4.98	10.35	0.00	10.35	0.00	0.92	0.10	0.00	1.01	0.00	20.0	0.0	0.	0.00
150	5.200	31.93	0.0	0.0	0.0	4.98	10.35	0.00	10.35	0.00	0.92	0.10	0.00	1.01	0.00	20.0	0.0	0.	0.00
151	5.100	31.93	0.0	0.0	0.0	4.98	10.34	0.00	10.34	0.00	0.91	0.10	0.00	1.01	0.00	20.0	0.0	0.	0.00
152	5.000	31.94	0.0	0.0	0.0	4.98	10.33	0.00	10.33	0.00	0.91	0.10	0.00	1.01	0.00	20.0	0.0	0.	0.00
153	4.900	31.94	0.0	0.0	0.0	4.99	10.33	0.00	10.33	0.00	0.91	0.10	0.00	1.01	0.00	20.0	0.0	0.	0.00
154	4.800	31.95	0.0	0.0	0.0	4.99	10.32	0.00	10.32	0.00	0.91	0.10	0.00	1.01	0.00	20.0	0.0	0.	0.00
155	4.700	31.95	0.0	0.0	0.0	4.99	10.31	0.00	10.31	0.00	0.91	0.10	0.00	1.01	0.00	20.0	0.0	0.	0.00
156	4.600	31.96	0.0	0.0	0.0	4.99	10.31	0.00	10.31	0.00	0.91	0.10	0.00	1.01	0.00	20.0	0.0	0.	0.00
157	4.500	31.96	0.0	0.0	0.0	4.99	10.30	0.00	10.30	0.00	0.91	0.10	0.00	1.01	0.00	20.0	0.0	0.	0.00
158	4.400	31.97	0.0	0.0	0.0	4.99	10.29	0.00	10.29	0.00	0.91	0.10	0.00	1.00	0.00	20.0	0.0	0.	0.00
159	4.300	31.97	0.0	0.0	0.0	4.99	10.29	0.00	10.29	0.00	0.91	0.10	0.00	1.00	0.00	20.0	0.0	0.	0.00
160	4.200	31.98	0.0	0.0	0.0	4.99	10.28	0.00	10.28	0.00	0.91	0.10	0.00	1.00	0.00	20.0	0.0	0.	0.00
161	4.100	31.98	0.0	0.0	0.0	4.98	10.26	0.00	10.26	0.00	0.91	0.10	0.00	1.00	0.00	20.0	0.0	0.	0.00
162	4.000	31.99	0.0	0.0	0.0	4.98	10.21	0.00	10.21	0.00	0.91	0.10	0.00	1.00	0.00	20.0	0.0	0.	0.00
163	3.900	31.99	0.0	0.0	0.0	4.95	10.06	0.00	10.06	0.00	0.92	0.10	0.00	1.01	0.00	20.0	0.0	0.	0.00
164	3.800	32.00	0.0	0.0	0.0	4.85	9.64	0.00	9.64	0.00	0.94	0.10	0.00	1.04	0.00	20.0	0.0	0.	0.00
165	3.700	32.00	0.0	0.0	0.0	4.47	8.34	0.00	8.34	0.00	1.01	0.11	0.00	1.12	0.00	20.0	0.0	0.	0.00
180	3.600	31.98	0.0	0.0	0.0	4.24	7.71	0.00	7.71	0.00	1.04	0.11	0.00	1.16	0.00	20.0	0.0	0.	0.00
181	3.500	31.97	0.0	0.0	0.0	4.30	7.88	0.00	7.88	0.00	1.04	0.11	0.00	1.15	0.00	20.0	0.0	0.	0.00
182	3.400	31.95	0.0	0.0	0.0	4.35	8.05	0.00	8.05	0.00	1.04	0.11	0.00	1.15	0.00	20.0	0.0	0.	0.00
183	3.300	31.94	0.0	0.0	0.0	4.39	8.21	0.00	8.21	0.00	1.03	0.11	0.00	1.14	0.00	20.0	0.0	0.	0.00
184	3.200	31.92	0.0	0.0	0.0	4.42	8.37	0.00	8.37	0.00	1.03	0.11	0.00	1.14	0.00	20.0	0.0	0.	0.00
185	3.100	31.90	0.0	0.0	0.0	4.44	8.52	0.00	8.52	0.00	1.02	0.11	0.00	1.14	0.00	20.0	0.0	0.	0.00
186	3.000	31.89	0.0	0.0	0.0	4.46	8.66	0.00	8.66	0.00	1.02	0.11	0.00	1.13	0.00	20.0	0.0	0.	0.00
187	2.900	31.87	0.0	0.0	0.0	4.46	8.80	0.00	8.80	0.00	1.02	0.11	0.00	1.13	0.00	20.0	0.0	0.	0.00
188	2.800	31.85	0.0	0.0	0.0	4.47	8.93	0.00	8.93	0.00	1.01	0.11	0.00	1.12	0.00	20.0	0.0	0.	0.00
189	2.700	31.84	0.0	0.0	0.0	4.47	9.06	0.00	9.06	0.00	1.01	0.11	0.00	1.12	0.00	20.0	0.0	0.	0.00
190	2.600	31.82	0.0	0.0	0.0	4.47	9.19	0.00	9.19	0.00	1.00	0.11	0.00	1.11	0.00	20.0	0.0	0.	0.00
191	2.500	31.81	0.0	0.0	0.0	4.46	9.31	0.00	9.31	0.00	1.00	0.11	0.00	1.11	0.00	20.0	0.0	0.	0.00
192	2.400	31.79	0.0	0.0	0.0	4.45	9.43	0.00	9.43	0.00	1.00	0.11	0.00	1.11	0.00	20.0	0.0	0.	0.00
193	2.300	31.77	0.0	0.0	0.0	4.44	9.54	0.00	9.54	0.00	0.99	0.11	0.00	1.10	0.00	20.0	0.0	0.	0.00
194	2.200	31.76	0.0	0.0	0.0	4.43	9.65	0.00	9.65	0.00	0.99	0.11	0.00	1.10	0.00	20.0	0.0	0.	0.00
195	2.100	31.74	0.0	0.0	0.0	4.42	9.75	0.00	9.75	0.00	0.99	0.11	0.00	1.09	0.00	20.0	0.0	0.	0.00
196	2.000	31.72	0.0	0.0	0.0	4.40	9.85	0.00	9.85	0.00	0.98	0.11	0.00	1.09	0.00	20.0	0.0	0.	0.00
197	1.900	31.71	0.0	0.0	0.0	4.39	9.95	0.00	9.95	0.00	0.98	0.11	0.00	1.08	0.00	20.0	0.0	0.	0.00
198	1.800	31.69	0.0	0.0	0.0	4.37	10.05	0.00	10.05	0.00	0.97	0.11	0.00	1.08	0.00	20.0	0.0	0.	0.00
199	1.700	31.68	0.0	0.0	0.0	4.35	10.14	0.00	10.14	0.00	0.97	0.11	0.00	1.08	0.00	20.0	0.0	0.	0.00
200	1.600	31.66	0.0	0.0	0.0	4.34	10.23	0.00	10.23	0.00	0.97	0.11	0.00	1.07	0.00	20.0	0.0	0.	0.00
201	1.500	31.64	0.0	0.0	0.0	4.32	10.31	0.00	10.31	0.00	0.96	0.11	0.00	1.07	0.00	20.0	0.0	0.	0.00
202	1.400	31.63	0.0	0.0	0.0	4.30	10.39	0.00	10.39	0.00	0.96	0.10	0.00	1.06	0.00	20.0	0.0	0.	0.00
203	1.300	31.61	0.0	0.0	0.0	4.29	10.47	0.00	10.47	0.00	0.96	0.10	0.00	1.06	0.00	20.0	0.0	0.	0.00
204	1.200	31.59	0.0	0.0	0.0	4.27	10.55	0.00	10.55	0.00	0.95	0.10	0.00	1.06	0.00	20.0	0.0	0.	0.00
205	1.100	31.58	0.0	0.0	0.0	4.25	10.62	0.00	10.62	0.00	0.95	0.10	0.00	1.05	0.00	20.0	0.0	0.	0.00
206	1.000	31.56	0.0	0.0	0.0	4.24	10.70	0.00	10.70	0.00	0.94	0.10	0.00	1.05	0.00	20.0	0.0	0.	0.00
207	0.900	31.55	0.0	0.0	0.0	4.22	10.76	0.00	10.76	0.00	0.94	0.10	0.00	1.04	0.00	20.0	0.0	0.	0.00
208	0.800	31.53	0.0	0.0	0.0	4.21	10.83	0.00	10.83	0.00	0.94	0.10	0.00	1.04	0.00	20.0	0.0	0.	0.00
209	0.700	31.51	0.0	0.0	0.0	4.19	10.89	0.00	10.89	0.00	0.93	0.10	0.00	1.04	0.00	20.0	0.0	0.	0.00
210	0.600	31.50	0.0	0.0	0.0	4.18	10.95	0.00	10.95	0.00	0.93	0.10	0.00	1.03	0.00	20.0	0.0	0.	0.00
211	0.500	31.48	0.0	0.0	0.0	4.17	10.99	0.00	10.99	0.00	0.92	0.10	0.00	1.02	0.00	20.0	0.0	0.	0.00

212	0.400	31.46	0.0	0.0	0.0	4.16	10.99	0.00	10.99	0.00	0.91	0.10	0.00	1.01	0.00	20.0	0.0	0.	0.00
213	0.300	31.45	0.0	0.0	0.0	4.17	10.91	0.00	10.91	0.00	0.89	0.10	0.00	0.99	0.00	20.0	0.0	0.	0.00
214	0.200	31.43	0.0	0.0	0.0	4.22	10.60	0.00	10.60	0.00	0.84	0.10	0.00	0.94	0.00	20.0	0.0	0.	0.00
215	0.100	31.42	0.0	0.0	0.0	4.33	9.70	0.00	9.70	0.00	0.71	0.10	0.00	0.81	0.00	20.0	0.0	0.	0.00
216	0.000	31.40	0.0	0.0	0.0	4.58	7.26	0.00	7.26	0.00	0.39	0.10	0.00	0.49	0.00	20.0	0.0	0.	0.00

SPECIAL REPORT: ICWWtoBlue

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 µg/L	TOTN **	PHOS	CHL A *	MACRO	COLI #/100mL	NCM
166	1.300	32.00	0.0	0.0	0.0	3.58	4.43	0.00	4.43	0.00	1.13	0.12	0.00	1.25	0.00	20.0	0.0	0.	0.00
167	1.200	32.00	0.0	0.0	0.0	3.69	4.71	0.00	4.71	0.00	1.13	0.12	0.00	1.25	0.00	20.0	0.0	0.	0.00
168	1.100	32.00	0.0	0.0	0.0	3.79	4.97	0.00	4.97	0.00	1.12	0.12	0.00	1.24	0.00	20.0	0.0	0.	0.00
169	1.000	32.00	0.0	0.0	0.0	3.86	5.21	0.00	5.21	0.00	1.12	0.12	0.00	1.23	0.00	20.0	0.0	0.	0.00
170	0.900	32.00	0.0	0.0	0.0	3.92	5.45	0.00	5.45	0.00	1.11	0.12	0.00	1.23	0.00	20.0	0.0	0.	0.00
171	0.800	32.00	0.0	0.0	0.0	3.97	5.68	0.00	5.68	0.00	1.11	0.12	0.00	1.22	0.00	20.0	0.0	0.	0.00
172	0.700	32.00	0.0	0.0	0.0	4.00	5.90	0.00	5.90	0.00	1.10	0.12	0.00	1.22	0.00	20.0	0.0	0.	0.00
173	0.600	32.00	0.0	0.0	0.0	4.02	6.11	0.00	6.11	0.00	1.10	0.12	0.00	1.21	0.00	20.0	0.0	0.	0.00
174	0.500	32.00	0.0	0.0	0.0	4.04	6.31	0.00	6.31	0.00	1.09	0.12	0.00	1.21	0.00	20.0	0.0	0.	0.00
175	0.400	32.00	0.0	0.0	0.0	4.04	6.50	0.00	6.50	0.00	1.09	0.12	0.00	1.20	0.00	20.0	0.0	0.	0.00
176	0.300	32.00	0.0	0.0	0.0	4.04	6.69	0.00	6.69	0.00	1.08	0.12	0.00	1.20	0.00	20.0	0.0	0.	0.00
177	0.200	32.00	0.0	0.0	0.0	4.04	6.89	0.00	6.89	0.00	1.07	0.12	0.00	1.19	0.00	20.0	0.0	0.	0.00
178	0.100	32.00	0.0	0.0	0.0	4.06	7.11	0.00	7.11	0.00	1.07	0.12	0.00	1.18	0.00	20.0	0.0	0.	0.00
179	0.000	32.00	0.0	0.0	0.0	4.11	7.39	0.00	7.39	0.00	1.06	0.11	0.00	1.17	0.00	20.0	0.0	0.	0.00

SPECIAL REPORT: BayouBlue#1

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST km	SAT D.O. mg/L	REAER RATE 1/da	DECAY 1/da	SETT 1/da	BOD#1 DECAY 1/da	BOD#1 DECAY 1/da	ABOD#1 SETT 1/da	BOD#1 DECAY *	BOD#2 SETT *	ABOD#2 DECAY 1/da	SOD 1/da	SOD 1/da	FULL DECAY *	CORR SETT 1/da	ORG-N DECAY *	ORG-N SRCE **	NH3 RATE **	NH3 SRCE 1/da	DENIT PROD 1/da	PO4 PROD 1/da	ALG DECAY 1/da	MAC DECAY 1/da	COLI SETT 1/da	NCM	NCM
1	20.100	7.40	3.84	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.24	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
2	20.000	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
3	19.900	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
4	19.800	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
5	19.700	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
6	19.600	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
7	19.500	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
8	19.400	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
9	19.300	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
10	19.200	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
11	19.100	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
12	19.000	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
13	18.900	7.40	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
14	18.800	7.40	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
15	18.700	7.40	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
16	18.600	7.39	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
17	18.500	7.39	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
18	18.400	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
19	18.300	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
20	18.200	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
21	18.100	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				
22	18.000	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00				

23	17.900	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
24	17.800	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
25	17.700	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
26	17.600	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
27	17.500	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
28	17.400	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
29	17.300	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
30	17.200	7.39	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
31	17.100	7.39	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
32	17.000	7.39	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
33	16.900	7.38	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
34	16.800	7.38	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
35	16.700	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
36	16.600	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
37	16.500	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
38	16.400	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
39	16.300	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
40	16.200	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
41	16.100	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
42	16.000	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
43	15.900	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
44	15.800	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
45	15.700	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
46	15.600	7.38	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
47	15.500	7.38	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
48	15.400	7.38	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
49	15.300	7.37	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
50	15.200	7.37	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
51	15.100	7.37	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
52	15.000	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
53	14.900	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
54	14.800	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
55	14.700	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
56	14.600	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
57	14.500	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
58	14.400	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
59	14.300	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
60	14.200	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
61	14.100	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
62	14.000	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
63	13.900	7.37	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
64	13.800	7.37	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
65	13.700	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
66	13.600	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
67	13.500	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
68	13.400	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
69	13.300	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
70	13.200	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
71	13.100	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
72	13.000	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00

73	12.900	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
74	12.800	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
75	12.700	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
76	12.600	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
77	12.500	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
78	12.400	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
79	12.300	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
80	12.200	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
81	12.100	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
82	12.000	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
83	11.900	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
84	11.800	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
85	11.700	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
86	11.600	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
87	11.500	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
88	11.400	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
89	11.300	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
90	11.200	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
91	11.100	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
92	11.000	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
93	10.900	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
94	10.800	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
95	10.700	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
96	10.600	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
97	10.500	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
98	10.400	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
99	10.300	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
100	10.200	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
101	10.100	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
102	10.000	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
103	9.900	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
104	9.800	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
105	9.700	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
106	9.600	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
107	9.500	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
108	9.400	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
109	9.300	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
110	9.200	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
111	9.100	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
112	9.000	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
113	8.900	7.34	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
114	8.800	7.34	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
115	8.700	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
116	8.600	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
117	8.500	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
118	8.400	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
119	8.300	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
120	8.200	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
121	8.100	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
122	8.000	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00

123	7.900	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
124	7.800	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
125	7.700	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
126	7.600	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
127	7.500	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
128	7.400	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
129	7.300	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
130	7.200	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
131	7.100	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
132	7.000	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
133	6.900	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
134	6.800	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
135	6.700	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
136	6.600	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
137	6.500	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
138	6.400	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
139	6.300	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
140	6.200	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
141	6.100	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
142	6.000	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
143	5.900	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
144	5.800	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
145	5.700	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
146	5.600	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
147	5.500	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
148	5.400	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
149	5.300	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
150	5.200	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
151	5.100	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
152	5.000	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
153	4.900	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
154	4.800	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
155	4.700	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
156	4.600	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
157	4.500	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
158	4.400	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
159	4.300	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
160	4.200	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
161	4.100	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
162	4.000	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
163	3.900	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
164	3.800	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
165	3.700	7.30	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
180	3.600	7.31	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
181	3.500	7.31	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
182	3.400	7.31	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
183	3.300	7.31	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
184	3.200	7.31	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
185	3.100	7.32	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
186	3.000	7.32	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

187	2.900	7.32	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
188	2.800	7.32	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
189	2.700	7.32	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
190	2.600	7.33	0.97	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
191	2.500	7.33	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
192	2.400	7.33	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
193	2.300	7.33	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
194	2.200	7.33	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
195	2.100	7.34	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
196	2.000	7.34	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
197	1.900	7.34	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
198	1.800	7.34	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
199	1.700	7.34	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
200	1.600	7.35	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
201	1.500	7.35	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
202	1.400	7.35	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
203	1.300	7.35	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
204	1.200	7.36	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
205	1.100	7.36	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
206	1.000	7.36	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
207	0.900	7.36	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
208	0.800	7.36	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
209	0.700	7.37	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
210	0.600	7.37	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
211	0.500	7.37	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
212	0.400	7.37	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
213	0.300	7.37	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
214	0.200	7.38	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
215	0.100	7.38	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
216	0.000	7.38	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00

SPECIAL REPORT: ICWWtoBlue

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 SETT 1/da	BOD#2 DECAY 1/da	ABOD#2 SOD *	FULL SOD *	CORR DECAY 1/da	ORG-N SETT 1/da	ORG-N DECAY 1/da	NH3 SRCE *	NH3 RATE **	DENIT SRCE **	PO4 PROD 1/da	ALG PROD 1/da	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
166	1.300	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.24	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
167	1.200	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
168	1.100	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
169	1.000	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
170	0.900	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
171	0.800	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
172	0.700	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
173	0.600	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
174	0.500	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
175	0.400	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
176	0.300	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
177	0.200	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
178	0.100	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
179	0.000	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

FINAL REPORT BayouBlue#1 LA-QUAL calibration for Bayou Blue

REACH NO. 1 BayouBlue#1 FTN Field Survey calibration

********** 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	0.39600	31.20	0.00	0.00	0.00	4.32	4.90	0.00	4.90	0.00	1.20	0.11	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00030	30.90	0.00	0.00	0.00	4.32	4.90	0.00			1.20	0.11	0.00	0.00	0.00	0.00	
63	WSTLD	-0.39638	31.51	0.00	0.00	0.00	6.52	6.23	0.00	6.23	0.00	1.17	0.11	0.00	0.00	20.00	0.00	0.00
119	WSTLD	0.00020	31.20	0.00	0.00	0.00	5.00	69.00	0.00	69.00	0.00	1.40	1.50	0.00	0.00	0.00	0.00	0.00
119	WSTLD	0.00017	31.20	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	1.40	1.50	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
1	20.20	20.10	0.39630	0.0	0.07926	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.079
2	20.10	20.00	0.39661	0.0	0.07932	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.079
3	20.00	19.90	0.39691	0.0	0.07938	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.079
4	19.90	19.80	0.39721	0.0	0.07944	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.079
5	19.80	19.70	0.39752	0.0	0.07950	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
6	19.70	19.60	0.39782	0.0	0.07956	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
7	19.60	19.50	0.39812	0.0	0.07962	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
8	19.50	19.40	0.39842	0.0	0.07968	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
9	19.40	19.30	0.39873	0.0	0.07975	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
10	19.30	19.20	0.39903	0.0	0.07981	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
11	19.20	19.10	0.39933	0.0	0.07987	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
12	19.10	19.00	0.39964	0.0	0.07993	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
13	19.00	18.90	0.39994	0.0	0.07999	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
14	18.90	18.80	0.40024	0.0	0.08005	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
15	18.80	18.70	0.40055	0.0	0.08011	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
16	18.70	18.60	0.40085	0.0	0.08017	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
17	18.60	18.50	0.40115	0.0	0.08023	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
18	18.50	18.40	0.40145	0.0	0.08029	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
19	18.40	18.30	0.40176	0.0	0.08035	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
20	18.30	18.20	0.40206	0.0	0.08041	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
21	18.20	18.10	0.40236	0.0	0.08047	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.080
22	18.10	18.00	0.40267	0.0	0.08053	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
23	18.00	17.90	0.40297	0.0	0.08059	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
24	17.90	17.80	0.40327	0.0	0.08065	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
25	17.80	17.70	0.40358	0.0	0.08072	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
26	17.70	17.60	0.40388	0.0	0.08078	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
27	17.60	17.50	0.40418	0.0	0.08084	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
28	17.50	17.40	0.40448	0.0	0.08090	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
29	17.40	17.30	0.40479	0.0	0.08096	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
30	17.30	17.20	0.40509	0.0	0.08102	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
31	17.20	17.10	0.40539	0.0	0.08108	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
32	17.10	17.00	0.40570	0.0	0.08114	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
33	17.00	16.90	0.40600	0.0	0.08120	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
34	16.90	16.80	0.40630	0.0	0.08126	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
35	16.80	16.70	0.40661	0.0	0.08132	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
36	16.70	16.60	0.40691	0.0	0.08138	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081
37	16.60	16.50	0.40721	0.0	0.08144	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.081

38	16.50	16.40	0.40752	0.0	0.08150	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
39	16.40	16.30	0.40782	0.0	0.08156	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
40	16.30	16.20	0.40812	0.0	0.08162	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
41	16.20	16.10	0.40842	0.0	0.08168	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
42	16.10	16.00	0.40873	0.0	0.08175	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
43	16.00	15.90	0.40903	0.0	0.08181	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
44	15.90	15.80	0.40933	0.0	0.08187	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
45	15.80	15.70	0.40964	0.0	0.08193	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
46	15.70	15.60	0.40994	0.0	0.08199	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
47	15.60	15.50	0.41024	0.0	0.08205	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
48	15.50	15.40	0.41055	0.0	0.08211	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
49	15.40	15.30	0.41085	0.0	0.08217	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
50	15.30	15.20	0.41115	0.0	0.08223	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
51	15.20	15.10	0.41145	0.0	0.08229	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
52	15.10	15.00	0.41176	0.0	0.08235	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
53	15.00	14.90	0.41206	0.0	0.08241	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
54	14.90	14.80	0.41236	0.0	0.08247	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.082
55	14.80	14.70	0.41267	0.0	0.08253	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.083
56	14.70	14.60	0.41297	0.0	0.08259	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.083
57	14.60	14.50	0.41327	0.0	0.08265	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.083
58	14.50	14.40	0.41358	0.0	0.08272	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.083
59	14.40	14.30	0.41388	0.0	0.08278	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.083
60	14.30	14.20	0.41418	0.0	0.08284	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.083
61	14.20	14.10	0.41448	0.0	0.08290	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.083
62	14.10	14.00	0.41479	0.0	0.08296	0.01	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.083
63	14.00	13.90	0.01871	0.0	0.00374	0.31	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.004
64	13.90	13.80	0.01901	0.0	0.00380	0.30	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.004
65	13.80	13.70	0.01932	0.0	0.00386	0.30	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.004
66	13.70	13.60	0.01962	0.0	0.00392	0.29	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.004
67	13.60	13.50	0.01992	0.0	0.00398	0.29	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.004
68	13.50	13.40	0.02023	0.0	0.00405	0.29	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.004
69	13.40	13.30	0.02053	0.0	0.00411	0.28	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.004
70	13.30	13.20	0.02083	0.0	0.00417	0.28	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.004
71	13.20	13.10	0.02114	0.0	0.00423	0.27	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.004
72	13.10	13.00	0.02144	0.0	0.00429	0.27	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.004
73	13.00	12.90	0.02174	0.0	0.00435	0.27	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.004
74	12.90	12.80	0.02204	0.0	0.00441	0.26	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.004
75	12.80	12.70	0.02235	0.0	0.00447	0.26	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.004
76	12.70	12.60	0.02265	0.0	0.00453	0.26	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
77	12.60	12.50	0.02295	0.0	0.00459	0.25	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
78	12.50	12.40	0.02326	0.0	0.00465	0.25	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
79	12.40	12.30	0.02356	0.0	0.00471	0.25	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
80	12.30	12.20	0.02386	0.0	0.00477	0.24	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
81	12.20	12.10	0.02417	0.0	0.00483	0.24	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
82	12.10	12.00	0.02447	0.0	0.00489	0.24	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
83	12.00	11.90	0.02477	0.0	0.00495	0.23	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
84	11.90	11.80	0.02507	0.0	0.00501	0.23	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
85	11.80	11.70	0.02538	0.0	0.00508	0.23	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
86	11.70	11.60	0.02568	0.0	0.00514	0.23	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
87	11.60	11.50	0.02598	0.0	0.00520	0.22	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005

88	11.50	11.40	0.02629	0.0	0.00526	0.22	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
89	11.40	11.30	0.02659	0.0	0.00532	0.22	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
90	11.30	11.20	0.02689	0.0	0.00538	0.22	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
91	11.20	11.10	0.02720	0.0	0.00544	0.21	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
92	11.10	11.00	0.02750	0.0	0.00550	0.21	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.005
93	11.00	10.90	0.02780	0.0	0.00556	0.21	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
94	10.90	10.80	0.02810	0.0	0.00562	0.21	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
95	10.80	10.70	0.02841	0.0	0.00568	0.20	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
96	10.70	10.60	0.02871	0.0	0.00574	0.20	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
97	10.60	10.50	0.02901	0.0	0.00580	0.20	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
98	10.50	10.40	0.02932	0.0	0.00586	0.20	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
99	10.40	10.30	0.02962	0.0	0.00592	0.20	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
100	10.30	10.20	0.02992	0.0	0.00598	0.19	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
101	10.20	10.10	0.03023	0.0	0.00605	0.19	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
102	10.10	10.00	0.03053	0.0	0.00611	0.19	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
103	10.00	9.90	0.03083	0.0	0.00617	0.19	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
104	9.90	9.80	0.03114	0.0	0.00623	0.19	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
105	9.80	9.70	0.03144	0.0	0.00629	0.18	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
106	9.70	9.60	0.03174	0.0	0.00635	0.18	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
107	9.60	9.50	0.03204	0.0	0.00641	0.18	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
108	9.50	9.40	0.03235	0.0	0.00647	0.18	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.006
109	9.40	9.30	0.03265	0.0	0.00653	0.18	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
110	9.30	9.20	0.03295	0.0	0.00659	0.18	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
111	9.20	9.10	0.03326	0.0	0.00665	0.17	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
112	9.10	9.00	0.03356	0.0	0.00671	0.17	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
113	9.00	8.90	0.03386	0.0	0.00677	0.17	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
114	8.90	8.80	0.03417	0.0	0.00683	0.17	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
115	8.80	8.70	0.03447	0.0	0.00689	0.17	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
116	8.70	8.60	0.03477	0.0	0.00695	0.17	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
117	8.60	8.50	0.03507	0.0	0.00701	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
118	8.50	8.40	0.03538	0.0	0.00708	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
119	8.40	8.30	0.03605	1.0	0.00721	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
120	8.30	8.20	0.03635	1.0	0.00727	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
121	8.20	8.10	0.03666	1.0	0.00733	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
122	8.10	8.00	0.03696	1.0	0.00739	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
123	8.00	7.90	0.03726	1.0	0.00745	0.16	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.007
124	7.90	7.80	0.03757	1.0	0.00751	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
125	7.80	7.70	0.03787	1.0	0.00757	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
126	7.70	7.60	0.03817	1.0	0.00763	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
127	7.60	7.50	0.03847	1.0	0.00769	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
128	7.50	7.40	0.03878	1.0	0.00776	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
129	7.40	7.30	0.03908	0.9	0.00782	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
130	7.30	7.20	0.03938	0.9	0.00788	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
131	7.20	7.10	0.03969	0.9	0.00794	0.15	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
132	7.10	7.00	0.03999	0.9	0.00800	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
133	7.00	6.90	0.04029	0.9	0.00806	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
134	6.90	6.80	0.04060	0.9	0.00812	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
135	6.80	6.70	0.04090	0.9	0.00818	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
136	6.70	6.60	0.04120	0.9	0.00824	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
137	6.60	6.50	0.04151	0.9	0.00830	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008

138	6.50	6.40	0.04181	0.9	0.00836	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
139	6.40	6.30	0.04211	0.9	0.00842	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
140	6.30	6.20	0.04241	0.9	0.00848	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.008
141	6.20	6.10	0.04272	0.9	0.00854	0.14	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
142	6.10	6.00	0.04302	0.9	0.00860	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
143	6.00	5.90	0.04332	0.9	0.00866	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
144	5.90	5.80	0.04363	0.8	0.00873	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
145	5.80	5.70	0.04393	0.8	0.00879	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
146	5.70	5.60	0.04423	0.8	0.00885	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
147	5.60	5.50	0.04454	0.8	0.00891	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
148	5.50	5.40	0.04484	0.8	0.00897	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
149	5.40	5.30	0.04514	0.8	0.00903	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
150	5.30	5.20	0.04544	0.8	0.00909	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
151	5.20	5.10	0.04575	0.8	0.00915	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
152	5.10	5.00	0.04605	0.8	0.00921	0.13	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
153	5.00	4.90	0.04635	0.8	0.00927	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
154	4.90	4.80	0.04666	0.8	0.00933	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
155	4.80	4.70	0.04696	0.8	0.00939	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
156	4.70	4.60	0.04726	0.8	0.00945	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.009
157	4.60	4.50	0.04757	0.8	0.00951	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.010
158	4.50	4.40	0.04787	0.8	0.00957	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.010
159	4.40	4.30	0.04817	0.8	0.00963	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.010
160	4.30	4.20	0.04847	0.8	0.00969	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.010
161	4.20	4.10	0.04878	0.8	0.00976	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.010
162	4.10	4.00	0.04908	0.8	0.00982	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.010
163	4.00	3.90	0.04938	0.7	0.00988	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.010
164	3.90	3.80	0.04969	0.7	0.00994	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.010
165	3.80	3.70	0.04999	0.7	0.01000	0.12	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.010
TOT					19.67				82500.00	165000.00					
AVG				0.0097			0.50	10.00			5.00				
CUM					19.67										

********** 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 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 1/da	NH3 RATE *	DENIT SRCE 1/da	PO4 PROD **	ALG PROD **	MAC DECAY 1/da	COLI DECAY 1/da	NCM SETT 1/da	NCM
1	20.100	7.40	3.84	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.24	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
2	20.000	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
3	19.900	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
4	19.800	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
5	19.700	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
6	19.600	7.40	3.85	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
7	19.500	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
8	19.400	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
9	19.300	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
10	19.200	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
11	19.100	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
12	19.000	7.40	3.86	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
13	18.900	7.40	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
14	18.800	7.40	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
15	18.700	7.40	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	

16	18.600	7.39	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
17	18.500	7.39	3.87	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
18	18.400	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
19	18.300	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
20	18.200	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
21	18.100	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
22	18.000	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
23	17.900	7.39	3.88	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
24	17.800	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
25	17.700	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
26	17.600	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
27	17.500	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
28	17.400	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
29	17.300	7.39	3.89	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
30	17.200	7.39	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
31	17.100	7.39	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
32	17.000	7.39	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
33	16.900	7.38	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
34	16.800	7.38	3.90	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
35	16.700	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
36	16.600	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
37	16.500	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
38	16.400	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
39	16.300	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
40	16.200	7.38	3.91	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
41	16.100	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
42	16.000	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
43	15.900	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
44	15.800	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
45	15.700	7.38	3.92	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
46	15.600	7.38	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
47	15.500	7.38	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
48	15.400	7.38	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
49	15.300	7.37	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
50	15.200	7.37	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
51	15.100	7.37	3.93	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
52	15.000	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
53	14.900	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
54	14.800	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
55	14.700	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
56	14.600	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
57	14.500	7.37	3.94	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
58	14.400	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
59	14.300	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
60	14.200	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
61	14.100	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
62	14.000	7.37	3.95	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
63	13.900	7.37	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
64	13.800	7.37	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
65	13.700	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00

66	13.600	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
67	13.500	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
68	13.400	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
69	13.300	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
70	13.200	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
71	13.100	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
72	13.000	7.36	1.73	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
73	12.900	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
74	12.800	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
75	12.700	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
76	12.600	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
77	12.500	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
78	12.400	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
79	12.300	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
80	12.200	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
81	12.100	7.36	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
82	12.000	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
83	11.900	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
84	11.800	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
85	11.700	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
86	11.600	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
87	11.500	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
88	11.400	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
89	11.300	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
90	11.200	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
91	11.100	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
92	11.000	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
93	10.900	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
94	10.800	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
95	10.700	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
96	10.600	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
97	10.500	7.35	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
98	10.400	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
99	10.300	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
100	10.200	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
101	10.100	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
102	10.000	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
103	9.900	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
104	9.800	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
105	9.700	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
106	9.600	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
107	9.500	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
108	9.400	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
109	9.300	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
110	9.200	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
111	9.100	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
112	9.000	7.34	1.73	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
113	8.900	7.34	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
114	8.800	7.34	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
115	8.700	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00

116	8.600	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
117	8.500	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
118	8.400	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
119	8.300	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
120	8.200	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
121	8.100	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
122	8.000	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
123	7.900	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
124	7.800	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
125	7.700	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
126	7.600	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
127	7.500	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
128	7.400	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
129	7.300	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
130	7.200	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
131	7.100	7.33	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
132	7.000	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
133	6.900	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
134	6.800	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
135	6.700	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
136	6.600	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
137	6.500	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
138	6.400	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
139	6.300	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
140	6.200	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
141	6.100	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
142	6.000	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
143	5.900	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
144	5.800	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
145	5.700	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
146	5.600	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
147	5.500	7.32	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
148	5.400	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
149	5.300	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
150	5.200	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
151	5.100	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
152	5.000	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
153	4.900	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
154	4.800	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
155	4.700	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
156	4.600	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
157	4.500	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
158	4.400	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
159	4.300	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
160	4.200	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
161	4.100	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
162	4.000	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
163	3.900	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
164	3.800	7.31	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
165	3.700	7.30	1.74	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 2.06 0.15 0.00 0.00 0.00 0.00 0.00 0.50 0.02 0.00 0.13 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
1	20.100	31.20	0.00	0.00	0.00	4.46	4.93	0.00	4.93	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
2	20.000	31.21	0.00	0.00	0.00	4.58	4.95	0.00	4.95	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
3	19.900	31.21	0.00	0.00	0.00	4.69	4.97	0.00	4.97	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
4	19.800	31.22	0.00	0.00	0.00	4.80	5.00	0.00	5.00	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
5	19.700	31.22	0.00	0.00	0.00	4.90	5.02	0.00	5.02	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
6	19.600	31.23	0.00	0.00	0.00	5.00	5.05	0.00	5.05	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
7	19.500	31.23	0.00	0.00	0.00	5.09	5.07	0.00	5.07	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
8	19.400	31.24	0.00	0.00	0.00	5.18	5.09	0.00	5.09	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
9	19.300	31.24	0.00	0.00	0.00	5.26	5.12	0.00	5.12	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
10	19.200	31.25	0.00	0.00	0.00	5.34	5.14	0.00	5.14	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
11	19.100	31.25	0.00	0.00	0.00	5.41	5.16	0.00	5.16	0.00	1.20	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
12	19.000	31.26	0.00	0.00	0.00	5.48	5.19	0.00	5.19	0.00	1.19	0.11	0.00	1.31	0.00	20.00	0.00	0.	0.00
13	18.900	31.26	0.00	0.00	0.00	5.54	5.21	0.00	5.21	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
14	18.800	31.27	0.00	0.00	0.00	5.60	5.23	0.00	5.23	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
15	18.700	31.27	0.00	0.00	0.00	5.66	5.25	0.00	5.25	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
16	18.600	31.28	0.00	0.00	0.00	5.72	5.28	0.00	5.28	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
17	18.500	31.28	0.00	0.00	0.00	5.77	5.30	0.00	5.30	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
18	18.400	31.29	0.00	0.00	0.00	5.82	5.32	0.00	5.32	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
19	18.300	31.29	0.00	0.00	0.00	5.86	5.34	0.00	5.34	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
20	18.200	31.30	0.00	0.00	0.00	5.91	5.37	0.00	5.37	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
21	18.100	31.30	0.00	0.00	0.00	5.95	5.39	0.00	5.39	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
22	18.000	31.31	0.00	0.00	0.00	5.99	5.41	0.00	5.41	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
23	17.900	31.31	0.00	0.00	0.00	6.02	5.43	0.00	5.43	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
24	17.800	31.32	0.00	0.00	0.00	6.06	5.45	0.00	5.45	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
25	17.700	31.32	0.00	0.00	0.00	6.09	5.47	0.00	5.47	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
26	17.600	31.33	0.00	0.00	0.00	6.12	5.50	0.00	5.50	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
27	17.500	31.33	0.00	0.00	0.00	6.15	5.52	0.00	5.52	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
28	17.400	31.34	0.00	0.00	0.00	6.18	5.54	0.00	5.54	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
29	17.300	31.34	0.00	0.00	0.00	6.20	5.56	0.00	5.56	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
30	17.200	31.35	0.00	0.00	0.00	6.23	5.58	0.00	5.58	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
31	17.100	31.35	0.00	0.00	0.00	6.25	5.60	0.00	5.60	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
32	17.000	31.36	0.00	0.00	0.00	6.27	5.62	0.00	5.62	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
33	16.900	31.36	0.00	0.00	0.00	6.29	5.64	0.00	5.64	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
34	16.800	31.36	0.00	0.00	0.00	6.31	5.66	0.00	5.66	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
35	16.700	31.37	0.00	0.00	0.00	6.33	5.68	0.00	5.68	0.00	1.19	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
36	16.600	31.37	0.00	0.00	0.00	6.35	5.70	0.00	5.70	0.00	1.18	0.11	0.00	1.30	0.00	20.00	0.00	0.	0.00
37	16.500	31.38	0.00	0.00	0.00	6.36	5.72	0.00	5.72	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
38	16.400	31.38	0.00	0.00	0.00	6.38	5.74	0.00	5.74	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
39	16.300	31.39	0.00	0.00	0.00	6.39	5.76	0.00	5.76	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
40	16.200	31.39	0.00	0.00	0.00	6.41	5.78	0.00	5.78	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
41	16.100	31.40	0.00	0.00	0.00	6.42	5.80	0.00	5.80	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
42	16.000	31.40	0.00	0.00	0.00	6.43	5.82	0.00	5.82	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
43	15.900	31.41	0.00	0.00	0.00	6.44	5.84	0.00	5.84	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
44	15.800	31.41	0.00	0.00	0.00	6.45	5.86	0.00	5.86	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
45	15.700	31.42	0.00	0.00	0.00	6.46	5.88	0.00	5.88	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00

46	15.600	31.42	0.00	0.00	0.00	6.47	5.90	0.00	5.90	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
47	15.500	31.43	0.00	0.00	0.00	6.48	5.92	0.00	5.92	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
48	15.400	31.43	0.00	0.00	0.00	6.49	5.94	0.00	5.94	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
49	15.300	31.44	0.00	0.00	0.00	6.49	5.96	0.00	5.96	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
50	15.200	31.44	0.00	0.00	0.00	6.50	5.98	0.00	5.98	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
51	15.100	31.45	0.00	0.00	0.00	6.51	6.00	0.00	6.00	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
52	15.000	31.45	0.00	0.00	0.00	6.51	6.01	0.00	6.01	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
53	14.900	31.46	0.00	0.00	0.00	6.52	6.03	0.00	6.03	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
54	14.800	31.46	0.00	0.00	0.00	6.52	6.05	0.00	6.05	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
55	14.700	31.47	0.00	0.00	0.00	6.53	6.07	0.00	6.07	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
56	14.600	31.47	0.00	0.00	0.00	6.53	6.09	0.00	6.09	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
57	14.500	31.48	0.00	0.00	0.00	6.54	6.11	0.00	6.11	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
58	14.400	31.48	0.00	0.00	0.00	6.54	6.12	0.00	6.12	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
59	14.300	31.49	0.00	0.00	0.00	6.55	6.14	0.00	6.14	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
60	14.200	31.49	0.00	0.00	0.00	6.55	6.16	0.00	6.16	0.00	1.18	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
61	14.100	31.50	0.00	0.00	0.00	6.55	6.18	0.00	6.18	0.00	1.17	0.11	0.00	1.29	0.00	20.00	0.00	0.	0.00
62	14.000	31.50	0.00	0.00	0.00	6.55	6.20	0.00	6.20	0.00	1.17	0.11	0.00	1.28	0.00	20.00	0.00	0.	0.00
63	13.900	31.51	0.00	0.00	0.00	6.52	6.23	0.00	6.23	0.00	1.17	0.11	0.00	1.28	0.00	20.00	0.00	0.	0.00
64	13.800	31.51	0.00	0.00	0.00	6.25	6.55	0.00	6.55	0.00	1.17	0.11	0.00	1.28	0.00	20.00	0.00	0.	0.00
65	13.700	31.52	0.00	0.00	0.00	6.05	6.84	0.00	6.84	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
66	13.600	31.52	0.00	0.00	0.00	5.90	7.11	0.00	7.11	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
67	13.500	31.52	0.00	0.00	0.00	5.78	7.35	0.00	7.35	0.00	1.14	0.11	0.00	1.25	0.00	20.00	0.00	0.	0.00
68	13.400	31.53	0.00	0.00	0.00	5.68	7.57	0.00	7.57	0.00	1.14	0.11	0.00	1.25	0.00	20.00	0.00	0.	0.00
69	13.300	31.53	0.00	0.00	0.00	5.61	7.77	0.00	7.77	0.00	1.13	0.11	0.00	1.24	0.00	20.00	0.00	0.	0.00
70	13.200	31.54	0.00	0.00	0.00	5.55	7.95	0.00	7.95	0.00	1.12	0.11	0.00	1.23	0.00	20.00	0.00	0.	0.00
71	13.100	31.54	0.00	0.00	0.00	5.50	8.12	0.00	8.12	0.00	1.12	0.11	0.00	1.23	0.00	20.00	0.00	0.	0.00
72	13.000	31.55	0.00	0.00	0.00	5.45	8.28	0.00	8.28	0.00	1.11	0.11	0.00	1.22	0.00	20.00	0.00	0.	0.00
73	12.900	31.55	0.00	0.00	0.00	5.42	8.42	0.00	8.42	0.00	1.10	0.11	0.00	1.21	0.00	20.00	0.00	0.	0.00
74	12.800	31.56	0.00	0.00	0.00	5.39	8.55	0.00	8.55	0.00	1.10	0.11	0.00	1.21	0.00	20.00	0.00	0.	0.00
75	12.700	31.56	0.00	0.00	0.00	5.36	8.67	0.00	8.67	0.00	1.09	0.11	0.00	1.20	0.00	20.00	0.00	0.	0.00
76	12.600	31.57	0.00	0.00	0.00	5.34	8.78	0.00	8.78	0.00	1.09	0.11	0.00	1.20	0.00	20.00	0.00	0.	0.00
77	12.500	31.57	0.00	0.00	0.00	5.31	8.88	0.00	8.88	0.00	1.08	0.11	0.00	1.19	0.00	20.00	0.00	0.	0.00
78	12.400	31.58	0.00	0.00	0.00	5.29	8.98	0.00	8.98	0.00	1.08	0.11	0.00	1.19	0.00	20.00	0.00	0.	0.00
79	12.300	31.58	0.00	0.00	0.00	5.28	9.06	0.00	9.06	0.00	1.07	0.11	0.00	1.18	0.00	20.00	0.00	0.	0.00
80	12.200	31.59	0.00	0.00	0.00	5.26	9.14	0.00	9.14	0.00	1.07	0.11	0.00	1.18	0.00	20.00	0.00	0.	0.00
81	12.100	31.59	0.00	0.00	0.00	5.25	9.22	0.00	9.22	0.00	1.06	0.11	0.00	1.17	0.00	20.00	0.00	0.	0.00
82	12.000	31.60	0.00	0.00	0.00	5.23	9.29	0.00	9.29	0.00	1.06	0.11	0.00	1.17	0.00	20.00	0.00	0.	0.00
83	11.900	31.60	0.00	0.00	0.00	5.22	9.35	0.00	9.35	0.00	1.05	0.11	0.00	1.16	0.00	20.00	0.00	0.	0.00
84	11.800	31.61	0.00	0.00	0.00	5.21	9.41	0.00	9.41	0.00	1.05	0.11	0.00	1.16	0.00	20.00	0.00	0.	0.00
85	11.700	31.61	0.00	0.00	0.00	5.20	9.46	0.00	9.46	0.00	1.05	0.11	0.00	1.15	0.00	20.00	0.00	0.	0.00
86	11.600	31.62	0.00	0.00	0.00	5.19	9.51	0.00	9.51	0.00	1.04	0.11	0.00	1.15	0.00	20.00	0.00	0.	0.00
87	11.500	31.62	0.00	0.00	0.00	5.18	9.56	0.00	9.56	0.00	1.04	0.11	0.00	1.14	0.00	20.00	0.00	0.	0.00
88	11.400	31.63	0.00	0.00	0.00	5.17	9.60	0.00	9.60	0.00	1.03	0.11	0.00	1.14	0.00	20.00	0.00	0.	0.00
89	11.300	31.63	0.00	0.00	0.00	5.16	9.64	0.00	9.64	0.00	1.03	0.11	0.00	1.14	0.00	20.00	0.00	0.	0.00
90	11.200	31.64	0.00	0.00	0.00	5.16	9.68	0.00	9.68	0.00	1.03	0.11	0.00	1.13	0.00	20.00	0.00	0.	0.00
91	11.100	31.64	0.00	0.00	0.00	5.15	9.71	0.00	9.71	0.00	1.02	0.10	0.00	1.13	0.00	20.00	0.00	0.	0.00
92	11.000	31.65	0.00	0.00	0.00	5.14	9.74	0.00	9.74	0.00	1.02	0.10	0.00	1.12	0.00	20.00	0.00	0.	0.00
93	10.900	31.65	0.00	0.00	0.00	5.14	9.77	0.00	9.77	0.00	1.02	0.10	0.00	1.12	0.00	20.00	0.00	0.	0.00
94	10.800	31.66	0.00	0.00	0.00	5.13	9.80	0.00	9.80	0.00	1.01	0.10	0.00	1.12	0.00	20.00	0.00	0.	0.00
95	10.700	31.66	0.00	0.00	0.00	5.13	9.83	0.00	9.83	0.00	1.01	0.10	0.00	1.11	0.00	20.00	0.00	0.	0.00

96	10.600	31.67	0.00	0.00	0.00	5.12	9.85	0.00	9.85	0.00	1.01	0.10	0.00	1.11	0.00	20.00	0.00	0.	0.00
97	10.500	31.67	0.00	0.00	0.00	5.12	9.87	0.00	9.87	0.00	1.00	0.10	0.00	1.11	0.00	20.00	0.00	0.	0.00
98	10.400	31.68	0.00	0.00	0.00	5.11	9.89	0.00	9.89	0.00	1.00	0.10	0.00	1.10	0.00	20.00	0.00	0.	0.00
99	10.300	31.68	0.00	0.00	0.00	5.11	9.91	0.00	9.91	0.00	1.00	0.10	0.00	1.10	0.00	20.00	0.00	0.	0.00
100	10.200	31.68	0.00	0.00	0.00	5.10	9.93	0.00	9.93	0.00	1.00	0.10	0.00	1.10	0.00	20.00	0.00	0.	0.00
101	10.100	31.69	0.00	0.00	0.00	5.10	9.95	0.00	9.95	0.00	0.99	0.10	0.00	1.10	0.00	20.00	0.00	0.	0.00
102	10.000	31.69	0.00	0.00	0.00	5.10	9.96	0.00	9.96	0.00	0.99	0.10	0.00	1.09	0.00	20.00	0.00	0.	0.00
103	9.900	31.70	0.00	0.00	0.00	5.09	9.98	0.00	9.98	0.00	0.99	0.10	0.00	1.09	0.00	20.00	0.00	0.	0.00
104	9.800	31.70	0.00	0.00	0.00	5.09	9.99	0.00	9.99	0.00	0.99	0.10	0.00	1.09	0.00	20.00	0.00	0.	0.00
105	9.700	31.71	0.00	0.00	0.00	5.09	10.01	0.00	10.01	0.00	0.98	0.10	0.00	1.08	0.00	20.00	0.00	0.	0.00
106	9.600	31.71	0.00	0.00	0.00	5.08	10.02	0.00	10.02	0.00	0.98	0.10	0.00	1.08	0.00	20.00	0.00	0.	0.00
107	9.500	31.72	0.00	0.00	0.00	5.08	10.03	0.00	10.03	0.00	0.98	0.10	0.00	1.08	0.00	20.00	0.00	0.	0.00
108	9.400	31.72	0.00	0.00	0.00	5.08	10.04	0.00	10.04	0.00	0.98	0.10	0.00	1.08	0.00	20.00	0.00	0.	0.00
109	9.300	31.73	0.00	0.00	0.00	5.08	10.05	0.00	10.05	0.00	0.97	0.10	0.00	1.07	0.00	20.00	0.00	0.	0.00
110	9.200	31.73	0.00	0.00	0.00	5.07	10.06	0.00	10.06	0.00	0.97	0.10	0.00	1.07	0.00	20.00	0.00	0.	0.00
111	9.100	31.74	0.00	0.00	0.00	5.07	10.07	0.00	10.07	0.00	0.97	0.10	0.00	1.07	0.00	20.00	0.00	0.	0.00
112	9.000	31.74	0.00	0.00	0.00	5.07	10.07	0.00	10.07	0.00	0.97	0.10	0.00	1.07	0.00	20.00	0.00	0.	0.00
113	8.900	31.75	0.00	0.00	0.00	5.07	10.08	0.00	10.08	0.00	0.97	0.10	0.00	1.07	0.00	20.00	0.00	0.	0.00
114	8.800	31.75	0.00	0.00	0.00	5.06	10.09	0.00	10.09	0.00	0.96	0.10	0.00	1.06	0.00	20.00	0.00	0.	0.00
115	8.700	31.76	0.00	0.00	0.00	5.06	10.11	0.00	10.11	0.00	0.96	0.10	0.00	1.06	0.00	20.00	0.00	0.	0.00
116	8.600	31.76	0.00	0.00	0.00	5.06	10.14	0.00	10.14	0.00	0.96	0.10	0.00	1.06	0.00	20.00	0.00	0.	0.00
117	8.500	31.77	0.00	0.00	0.00	5.05	10.22	0.00	10.22	0.00	0.96	0.10	0.00	1.06	0.00	20.00	0.00	0.	0.00
118	8.400	31.77	0.00	0.00	0.00	5.04	10.39	0.00	10.39	0.00	0.96	0.10	0.00	1.06	0.00	20.00	0.00	0.	0.00
119	8.300	31.78	0.00	0.00	0.00	5.02	10.81	0.00	10.81	0.00	0.96	0.11	0.00	1.07	0.00	20.00	0.00	0.	0.00
120	8.200	31.78	0.00	0.00	0.00	5.00	10.78	0.00	10.78	0.00	0.96	0.11	0.00	1.07	0.00	20.00	0.00	0.	0.00
121	8.100	31.79	0.00	0.00	0.00	4.99	10.76	0.00	10.76	0.00	0.95	0.11	0.00	1.07	0.00	20.00	0.00	0.	0.00
122	8.000	31.79	0.00	0.00	0.00	4.98	10.73	0.00	10.73	0.00	0.95	0.11	0.00	1.06	0.00	20.00	0.00	0.	0.00
123	7.900	31.80	0.00	0.00	0.00	4.98	10.71	0.00	10.71	0.00	0.95	0.11	0.00	1.06	0.00	20.00	0.00	0.	0.00
124	7.800	31.80	0.00	0.00	0.00	4.97	10.69	0.00	10.69	0.00	0.95	0.11	0.00	1.06	0.00	20.00	0.00	0.	0.00
125	7.700	31.81	0.00	0.00	0.00	4.97	10.66	0.00	10.66	0.00	0.95	0.11	0.00	1.06	0.00	20.00	0.00	0.	0.00
126	7.600	31.81	0.00	0.00	0.00	4.97	10.64	0.00	10.64	0.00	0.95	0.11	0.00	1.05	0.00	20.00	0.00	0.	0.00
127	7.500	31.82	0.00	0.00	0.00	4.97	10.62	0.00	10.62	0.00	0.94	0.11	0.00	1.05	0.00	20.00	0.00	0.	0.00
128	7.400	31.82	0.00	0.00	0.00	4.97	10.61	0.00	10.61	0.00	0.94	0.11	0.00	1.05	0.00	20.00	0.00	0.	0.00
129	7.300	31.83	0.00	0.00	0.00	4.97	10.59	0.00	10.59	0.00	0.94	0.11	0.00	1.05	0.00	20.00	0.00	0.	0.00
130	7.200	31.83	0.00	0.00	0.00	4.97	10.57	0.00	10.57	0.00	0.94	0.11	0.00	1.05	0.00	20.00	0.00	0.	0.00
131	7.100	31.84	0.00	0.00	0.00	4.97	10.56	0.00	10.56	0.00	0.94	0.10	0.00	1.04	0.00	20.00	0.00	0.	0.00
132	7.000	31.84	0.00	0.00	0.00	4.97	10.54	0.00	10.54	0.00	0.94	0.10	0.00	1.04	0.00	20.00	0.00	0.	0.00
133	6.900	31.84	0.00	0.00	0.00	4.97	10.52	0.00	10.52	0.00	0.94	0.10	0.00	1.04	0.00	20.00	0.00	0.	0.00
134	6.800	31.85	0.00	0.00	0.00	4.97	10.51	0.00	10.51	0.00	0.93	0.10	0.00	1.04	0.00	20.00	0.00	0.	0.00
135	6.700	31.85	0.00	0.00	0.00	4.97	10.50	0.00	10.50	0.00	0.93	0.10	0.00	1.04	0.00	20.00	0.00	0.	0.00
136	6.600	31.86	0.00	0.00	0.00	4.97	10.48	0.00	10.48	0.00	0.93	0.10	0.00	1.03	0.00	20.00	0.00	0.	0.00
137	6.500	31.86	0.00	0.00	0.00	4.97	10.47	0.00	10.47	0.00	0.93	0.10	0.00	1.03	0.00	20.00	0.00	0.	0.00
138	6.400	31.87	0.00	0.00	0.00	4.98	10.46	0.00	10.46	0.00	0.93	0.10	0.00	1.03	0.00	20.00	0.00	0.	0.00
139	6.300	31.87	0.00	0.00	0.00	4.98	10.45	0.00	10.45	0.00	0.93	0.10	0.00	1.03	0.00	20.00	0.00	0.	0.00
140	6.200	31.88	0.00	0.00	0.00	4.98	10.44	0.00	10.44	0.00	0.93	0.10	0.00	1.03	0.00	20.00	0.00	0.	0.00
141	6.100	31.88	0.00	0.00	0.00	4.98	10.43	0.00	10.43	0.00	0.93	0.10	0.00	1.03	0.00	20.00	0.00	0.	0.00
142	6.000	31.89	0.00	0.00	0.00	4.98	10.42	0.00	10.42	0.00	0.92	0.10	0.00	1.02	0.00	20.00	0.00	0.	0.00
143	5.900	31.89	0.00	0.00	0.00	4.98	10.41	0.00	10.41	0.00	0.92	0.10	0.00	1.02	0.00	20.00	0.00	0.	0.00
144	5.800	31.90	0.00	0.00	0.00	4.98	10.40	0.00	10.40	0.00	0.92	0.10	0.00	1.02	0.00	20.00	0.00	0.	0.00
145	5.700	31.90	0.00	0.00	0.00	4.98	10.39	0.00	10.39	0.00	0.92	0.10	0.00	1.02	0.00	20.00	0.00	0.	0.00

146	5.600	31.91	0.00	0.00	0.00	4.98	10.38	0.00	10.38	0.00	0.92	0.10	0.00	1.02	0.00	20.00	0.00	0.	0.00
147	5.500	31.91	0.00	0.00	0.00	4.98	10.37	0.00	10.37	0.00	0.92	0.10	0.00	1.02	0.00	20.00	0.00	0.	0.00
148	5.400	31.92	0.00	0.00	0.00	4.98	10.36	0.00	10.36	0.00	0.92	0.10	0.00	1.02	0.00	20.00	0.00	0.	0.00
149	5.300	31.92	0.00	0.00	0.00	4.98	10.35	0.00	10.35	0.00	0.92	0.10	0.00	1.01	0.00	20.00	0.00	0.	0.00
150	5.200	31.93	0.00	0.00	0.00	4.98	10.35	0.00	10.35	0.00	0.92	0.10	0.00	1.01	0.00	20.00	0.00	0.	0.00
151	5.100	31.93	0.00	0.00	0.00	4.98	10.34	0.00	10.34	0.00	0.91	0.10	0.00	1.01	0.00	20.00	0.00	0.	0.00
152	5.000	31.94	0.00	0.00	0.00	4.98	10.33	0.00	10.33	0.00	0.91	0.10	0.00	1.01	0.00	20.00	0.00	0.	0.00
153	4.900	31.94	0.00	0.00	0.00	4.99	10.33	0.00	10.33	0.00	0.91	0.10	0.00	1.01	0.00	20.00	0.00	0.	0.00
154	4.800	31.95	0.00	0.00	0.00	4.99	10.32	0.00	10.32	0.00	0.91	0.10	0.00	1.01	0.00	20.00	0.00	0.	0.00
155	4.700	31.95	0.00	0.00	0.00	4.99	10.31	0.00	10.31	0.00	0.91	0.10	0.00	1.01	0.00	20.00	0.00	0.	0.00
156	4.600	31.96	0.00	0.00	0.00	4.99	10.31	0.00	10.31	0.00	0.91	0.10	0.00	1.01	0.00	20.00	0.00	0.	0.00
157	4.500	31.96	0.00	0.00	0.00	4.99	10.30	0.00	10.30	0.00	0.91	0.10	0.00	1.01	0.00	20.00	0.00	0.	0.00
158	4.400	31.97	0.00	0.00	0.00	4.99	10.29	0.00	10.29	0.00	0.91	0.10	0.00	1.00	0.00	20.00	0.00	0.	0.00
159	4.300	31.97	0.00	0.00	0.00	4.99	10.29	0.00	10.29	0.00	0.91	0.10	0.00	1.00	0.00	20.00	0.00	0.	0.00
160	4.200	31.98	0.00	0.00	0.00	4.99	10.28	0.00	10.28	0.00	0.91	0.10	0.00	1.00	0.00	20.00	0.00	0.	0.00
161	4.100	31.98	0.00	0.00	0.00	4.98	10.26	0.00	10.26	0.00	0.91	0.10	0.00	1.00	0.00	20.00	0.00	0.	0.00
162	4.000	31.99	0.00	0.00	0.00	4.98	10.21	0.00	10.21	0.00	0.91	0.10	0.00	1.00	0.00	20.00	0.00	0.	0.00
163	3.900	31.99	0.00	0.00	0.00	4.95	10.06	0.00	10.06	0.00	0.92	0.10	0.00	1.01	0.00	20.00	0.00	0.	0.00
164	3.800	32.00	0.00	0.00	0.00	4.85	9.64	0.00	9.64	0.00	0.94	0.10	0.00	1.04	0.00	20.00	0.00	0.	0.00
165	3.700	32.00	0.00	0.00	0.00	4.47	8.34	0.00	8.34	0.00	1.01	0.11	0.00	1.12	0.00	20.00	0.00	0.	0.00

FINAL REPORT BayouBlue#1 LA-QUAL calibration for Bayou Blue
REACH NO. 3 BayouBlue#2 FTN Field Survey calibration

********** 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
180	UPR RCH	0.04999	32.00	0.00	0.00	0.00	4.47	8.34	0.00	8.34	0.00	1.01	0.11	0.00	0.00	20.00	0.00	0.00
180	TRIB	0.39600	32.00	0.00	0.00	0.00	4.11	7.39	0.00	7.39	0.00	1.06	0.11	0.00	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
180	3.70	3.60	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
181	3.60	3.50	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
182	3.50	3.40	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
183	3.40	3.30	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
184	3.30	3.20	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
185	3.20	3.10	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
186	3.10	3.00	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
187	3.00	2.90	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
188	2.90	2.80	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
189	2.80	2.70	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
190	2.70	2.60	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
191	2.60	2.50	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
192	2.50	2.40	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
193	2.40	2.30	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
194	2.30	2.20	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
195	2.20	2.10	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
196	2.10	2.00	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
197	2.00	1.90	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
198	1.90	1.80	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008

199	1.80	1.70	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
200	1.70	1.60	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
201	1.60	1.50	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
202	1.50	1.40	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
203	1.40	1.30	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
204	1.30	1.20	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
205	1.20	1.10	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
206	1.10	1.00	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
207	1.00	0.90	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
208	0.90	0.80	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
209	0.80	0.70	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
210	0.70	0.60	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
211	0.60	0.50	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
212	0.50	0.40	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
213	0.40	0.30	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
214	0.30	0.20	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
215	0.20	0.10	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
216	0.10	0.00	0.44599	0.1	0.00757	0.15	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.008
TOT					5.66			218114.98	242350.00						
AVG				0.0076			0.90	65.50			58.95				
CUM					25.33										

********** 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			
180	3.600	7.31	0.97	0.26	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
181	3.500	7.31	0.97	0.26	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
182	3.400	7.31	0.97	0.26	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
183	3.300	7.31	0.97	0.26	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
184	3.200	7.31	0.97	0.26	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
185	3.100	7.32	0.97	0.26	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
186	3.000	7.32	0.97	0.26	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
187	2.900	7.32	0.97	0.26	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
188	2.800	7.32	0.97	0.26	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
189	2.700	7.32	0.97	0.26	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
190	2.600	7.33	0.97	0.26	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
191	2.500	7.33	0.96	0.26	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
192	2.400	7.33	0.96	0.26	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
193	2.300	7.33	0.96	0.26	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.26	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
194	2.200	7.33	0.96	0.26	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
195	2.100	7.34	0.96	0.26	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
196	2.000	7.34	0.96	0.26	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
197	1.900	7.34	0.96	0.26	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
198	1.800	7.34	0.96	0.26	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
199	1.700	7.34	0.96	0.26	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
200	1.600	7.35	0.96	0.26	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
201	1.500	7.35	0.96	0.26	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
202	1.400	7.35	0.96	0.26	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
203	1.300	7.35	0.96	0.26	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		
204	1.200	7.36	0.96	0.26	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00		

205	1.100	7.36	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
206	1.000	7.36	0.96	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
207	0.900	7.36	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
208	0.800	7.36	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
209	0.700	7.37	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
210	0.600	7.37	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
211	0.500	7.37	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
212	0.400	7.37	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
213	0.300	7.37	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
214	0.200	7.38	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
215	0.100	7.38	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
216	0.000	7.38	0.96	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.25	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.78	0.15	0.00	0.00	0.00	0.00	0.00	0.50			0.02	0.00	0.13	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
180	3.600	31.98	0.00	0.00	0.00	4.24	7.71	0.00	7.71	0.00	1.04	0.11	0.00	1.16	0.00	20.00	0.00		0.	0.00
181	3.500	31.97	0.00	0.00	0.00	4.30	7.88	0.00	7.88	0.00	1.04	0.11	0.00	1.15	0.00	20.00	0.00		0.	0.00
182	3.400	31.95	0.00	0.00	0.00	4.35	8.05	0.00	8.05	0.00	1.04	0.11	0.00	1.15	0.00	20.00	0.00		0.	0.00
183	3.300	31.94	0.00	0.00	0.00	4.39	8.21	0.00	8.21	0.00	1.03	0.11	0.00	1.14	0.00	20.00	0.00		0.	0.00
184	3.200	31.92	0.00	0.00	0.00	4.42	8.37	0.00	8.37	0.00	1.03	0.11	0.00	1.14	0.00	20.00	0.00		0.	0.00
185	3.100	31.90	0.00	0.00	0.00	4.44	8.52	0.00	8.52	0.00	1.02	0.11	0.00	1.14	0.00	20.00	0.00		0.	0.00
186	3.000	31.89	0.00	0.00	0.00	4.46	8.66	0.00	8.66	0.00	1.02	0.11	0.00	1.13	0.00	20.00	0.00		0.	0.00
187	2.900	31.87	0.00	0.00	0.00	4.46	8.80	0.00	8.80	0.00	1.02	0.11	0.00	1.13	0.00	20.00	0.00		0.	0.00
188	2.800	31.85	0.00	0.00	0.00	4.47	8.93	0.00	8.93	0.00	1.01	0.11	0.00	1.12	0.00	20.00	0.00		0.	0.00
189	2.700	31.84	0.00	0.00	0.00	4.47	9.06	0.00	9.06	0.00	1.01	0.11	0.00	1.12	0.00	20.00	0.00		0.	0.00
190	2.600	31.82	0.00	0.00	0.00	4.47	9.19	0.00	9.19	0.00	1.00	0.11	0.00	1.11	0.00	20.00	0.00		0.	0.00
191	2.500	31.81	0.00	0.00	0.00	4.46	9.31	0.00	9.31	0.00	1.00	0.11	0.00	1.11	0.00	20.00	0.00		0.	0.00
192	2.400	31.79	0.00	0.00	0.00	4.45	9.43	0.00	9.43	0.00	1.00	0.11	0.00	1.11	0.00	20.00	0.00		0.	0.00
193	2.300	31.77	0.00	0.00	0.00	4.44	9.54	0.00	9.54	0.00	0.99	0.11	0.00	1.10	0.00	20.00	0.00		0.	0.00
194	2.200	31.76	0.00	0.00	0.00	4.43	9.65	0.00	9.65	0.00	0.99	0.11	0.00	1.10	0.00	20.00	0.00		0.	0.00
195	2.100	31.74	0.00	0.00	0.00	4.42	9.75	0.00	9.75	0.00	0.99	0.11	0.00	1.09	0.00	20.00	0.00		0.	0.00
196	2.000	31.72	0.00	0.00	0.00	4.40	9.85	0.00	9.85	0.00	0.98	0.11	0.00	1.09	0.00	20.00	0.00		0.	0.00
197	1.900	31.71	0.00	0.00	0.00	4.39	9.95	0.00	9.95	0.00	0.98	0.11	0.00	1.08	0.00	20.00	0.00		0.	0.00
198	1.800	31.69	0.00	0.00	0.00	4.37	10.05	0.00	10.05	0.00	0.97	0.11	0.00	1.08	0.00	20.00	0.00		0.	0.00
199	1.700	31.68	0.00	0.00	0.00	4.35	10.14	0.00	10.14	0.00	0.97	0.11	0.00	1.08	0.00	20.00	0.00		0.	0.00
200	1.600	31.66	0.00	0.00	0.00	4.34	10.23	0.00	10.23	0.00	0.97	0.11	0.00	1.07	0.00	20.00	0.00		0.	0.00
201	1.500	31.64	0.00	0.00	0.00	4.32	10.31	0.00	10.31	0.00	0.96	0.11	0.00	1.07	0.00	20.00	0.00		0.	0.00
202	1.400	31.63	0.00	0.00	0.00	4.30	10.39	0.00	10.39	0.00	0.96	0.10	0.00	1.06	0.00	20.00	0.00		0.	0.00
203	1.300	31.61	0.00	0.00	0.00	4.29	10.47	0.00	10.47	0.00	0.96	0.10	0.00	1.06	0.00	20.00	0.00		0.	0.00
204	1.200	31.59	0.00	0.00	0.00	4.27	10.55	0.00	10.55	0.00	0.95	0.10	0.00	1.06	0.00	20.00	0.00		0.	0.00
205	1.100	31.58	0.00	0.00	0.00	4.25	10.62	0.00	10.62	0.00	0.95	0.10	0.00	1.05	0.00	20.00	0.00		0.	0.00
206	1.000	31.56	0.00	0.00	0.00	4.24	10.70	0.00	10.70	0.00	0.94	0.10	0.00	1.05	0.00	20.00	0.00		0.	0.00
207	0.900	31.55	0.00	0.00	0.00	4.22	10.76	0.00	10.76	0.00	0.94	0.10	0.00	1.04	0.00	20.00	0.00		0.	0.00
208	0.800	31.53	0.00	0.00	0.00	4.21	10.83	0.00	10.83	0.00	0.94	0.10	0.00	1.04	0.00	20.00	0.00		0.	0.00
209	0.700	31.51	0.00	0.00	0.00	4.19	10.89	0.00	10.89	0.00	0.93	0.10	0.00	1.04	0.00	20.00	0.00		0.	0.00
210	0.600	31.50	0.00	0.00	0.00	4.18	10.95	0.00	10.95	0.00	0.93	0.10	0.00	1.03	0.00	20.00	0.00		0.	0.00
211	0.500	31.48	0.00	0.00	0.00	4.17	10.99	0.00	10.99	0.00	0.92	0.10	0.00	1.02	0.00	20.00	0.00		0.	0.00
212	0.400	31.46	0.00	0.00	0.00	4.16	10.99	0.00	10.99	0.00	0.91	0.10	0.00	1.01	0.00	20.00	0.00		0.	0.00

213	0.300	31.45	0.00	0.00	0.00	4.17	10.91	0.00	10.91	0.00	0.89	0.10	0.00	0.99	0.00	20.00	0.00	0.	0.00
214	0.200	31.43	0.00	0.00	0.00	4.22	10.60	0.00	10.60	0.00	0.84	0.10	0.00	0.94	0.00	20.00	0.00	0.	0.00
215	0.100	31.42	0.00	0.00	0.00	4.33	9.70	0.00	9.70	0.00	0.71	0.10	0.00	0.81	0.00	20.00	0.00	0.	0.00
216	0.000	31.40	0.00	0.00	0.00	4.58	7.26	0.00	7.26	0.00	0.39	0.10	0.00	0.49	0.00	20.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL calibration for Bayou Blue
BayouBlue#1 FTN Field Survey calibration

TRAVEL TIME = 25.33 DAYS
MAXIMUM EFFLUENT = 1.03 PERCENT
FLOW = 0.01871 TO 0.44599 m^3/s
DISPERSION = 0.5000 TO 0.5000 m^2/s
VELOCITY = 0.00374 TO 0.08296 m/s
DEPTH = 0.50 TO 0.90 m
WIDTH = 10.00 TO 65.50 m
BOD DECAY = 0.25 TO 0.26 per day
NH3 DECAY = 0.24 TO 0.27 per day
SOD = 1.01 TO 1.06 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.96 TO 3.95 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 = 31.20 TO 32.00 deg C
DISSOLVED OXYGEN = 4.16 TO 6.55 mg/L

FINAL REPORT ICWWtoBlue LA-QUAL calibration for Bayou Blue
REACH NO. 2 ICWWtoBlue FTN Field Survey calibration

********** 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
166	HDWTR	0.39600	32.00	0.00	0.00	0.00	3.33	3.93	0.00	3.93	0.00	1.14	0.12	0.00	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
166	1.40	1.30	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
167	1.30	1.20	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
168	1.20	1.10	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
169	1.10	1.00	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
170	1.00	0.90	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
171	0.90	0.80	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
172	0.80	0.70	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
173	0.70	0.60	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
174	0.60	0.50	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
175	0.50	0.40	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
176	0.40	0.30	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
177	0.30	0.20	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
178	0.20	0.10	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
179	0.10	0.00	0.39600	0.0	0.00643	0.18	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.006
TOT					2.52				86240.00	61600.00					
AVG				0.0064		1.40	44.00				61.60				
CUM					2.52										

********** 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	
166	1.300	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.24	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
167	1.200	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
168	1.100	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
169	1.000	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
170	0.900	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
171	0.800	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
172	0.700	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
173	0.600	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
174	0.500	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
175	0.400	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
176	0.300	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
177	0.200	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
178	0.100	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
179	0.000	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.25	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.50	0.15	0.00	0.00	0.00	0.00	0.00	0.70			0.02	0.00	0.13	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	DO mg/L	BOD#1 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
166	1.300	32.00	0.00	0.00	0.00	3.58	4.43	0.00	4.43	0.00	1.13	0.12	0.00	1.25	0.00	20.00	0.00	0.	0.00
167	1.200	32.00	0.00	0.00	0.00	3.69	4.71	0.00	4.71	0.00	1.13	0.12	0.00	1.25	0.00	20.00	0.00	0.	0.00
168	1.100	32.00	0.00	0.00	0.00	3.79	4.97	0.00	4.97	0.00	1.12	0.12	0.00	1.24	0.00	20.00	0.00	0.	0.00
169	1.000	32.00	0.00	0.00	0.00	3.86	5.21	0.00	5.21	0.00	1.12	0.12	0.00	1.23	0.00	20.00	0.00	0.	0.00
170	0.900	32.00	0.00	0.00	0.00	3.92	5.45	0.00	5.45	0.00	1.11	0.12	0.00	1.23	0.00	20.00	0.00	0.	0.00
171	0.800	32.00	0.00	0.00	0.00	3.97	5.68	0.00	5.68	0.00	1.11	0.12	0.00	1.22	0.00	20.00	0.00	0.	0.00
172	0.700	32.00	0.00	0.00	0.00	4.00	5.90	0.00	5.90	0.00	1.10	0.12	0.00	1.22	0.00	20.00	0.00	0.	0.00
173	0.600	32.00	0.00	0.00	0.00	4.02	6.11	0.00	6.11	0.00	1.10	0.12	0.00	1.21	0.00	20.00	0.00	0.	0.00
174	0.500	32.00	0.00	0.00	0.00	4.04	6.31	0.00	6.31	0.00	1.09	0.12	0.00	1.21	0.00	20.00	0.00	0.	0.00
175	0.400	32.00	0.00	0.00	0.00	4.04	6.50	0.00	6.50	0.00	1.09	0.12	0.00	1.20	0.00	20.00	0.00	0.	0.00
176	0.300	32.00	0.00	0.00	0.00	4.04	6.69	0.00	6.69	0.00	1.08	0.12	0.00	1.20	0.00	20.00	0.00	0.	0.00
177	0.200	32.00	0.00	0.00	0.00	4.04	6.89	0.00	6.89	0.00	1.07	0.12	0.00	1.19	0.00	20.00	0.00	0.	0.00
178	0.100	32.00	0.00	0.00	0.00	4.06	7.11	0.00	7.11	0.00	1.07	0.12	0.00	1.18	0.00	20.00	0.00	0.	0.00
179	0.000	32.00	0.00	0.00	0.00	4.11	7.39	0.00	7.39	0.00	1.06	0.11	0.00	1.17	0.00	20.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL calibration for Bayou Blue
ICWWtoBlue FTN Field Survey calibration
TRAVEL TIME = 2.52 DAYS
MAXIMUM EFFLUENT = 0.00 PERCENT

FLOW = 0.39600 TO 0.39600 m³/s
DISPERSION = 0.5000 TO 0.5000 m²/s
VELOCITY = 0.00643 TO 0.00643 m/s
DEPTH = 1.40 TO 1.40 m
WIDTH = 44.00 TO 44.00 m
BOD DECAY = 0.26 TO 0.26 per day
NH3 DECAY = 0.24 TO 0.25 per day
SOD = 1.49 TO 1.49 g/m²/d

NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 0.62 TO 0.62 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.03 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day
TEMPERATURE = 32.00 TO 32.00 deg C
DISSOLVED OXYGEN = 3.58 TO 4.11 mg/L
LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration
REACH SUMMARY REPORT FOR BayouBlue#1

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	BayouBlue#1	20.20	3.70	16.50	19.67	0.04999	0.00971	0.500	10.00	1.765	0.032	1.640	32.81
3	BayouBlue#2	3.70	0.00	3.70	5.66	0.44599	0.00757	0.900	65.50	15.748	0.025	2.953	214.91

LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration
REACH SUMMARY REPORT FOR ICWWtoBlue

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
2	ICWWtoBlue	1.40	0.00	1.40	2.52	0.39600	0.00643	1.400	44.00	13.983	0.021	4.593	144.36

DISSOLVED OXYGEN LOADING FOR REACH 1: BayouBlue#1

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	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT OUT
1	148.	0.	-153.	0.	0.	0.	0.	0.	0.	0.	0.	6.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-154.3	154.3	0.00
2	153.	0.	-157.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-158.8	158.8	0.00
3	157.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-162.9	162.9	0.00
4	161.	0.	-165.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-166.7	166.7	0.00
5	165.	0.	-168.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-170.3	170.3	0.00
6	168.	0.	-172.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-173.8	173.8	0.00
7	172.	0.	-175.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-177.0	177.0	0.00
8	175.	0.	-178.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-180.1	180.1	0.00
9	178.	0.	-181.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-183.1	183.1	0.00
10	181.	0.	-184.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-185.9	185.9	0.00
11	184.	0.	-187.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-188.5	188.5	0.00
12	187.	0.	-189.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-191.0	191.0	0.00
13	189.	0.	-192.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-193.4	193.4	0.00
14	192.	0.	-194.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-195.7	195.7	0.00
15	194.	0.	-196.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-197.8	197.8	0.00
16	196.	0.	-198.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-199.9	199.9	0.00
17	198.	0.	-200.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-201.8	201.8	0.00
18	200.	0.	-202.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-203.7	203.7	0.00
19	202.	0.	-204.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-205.4	205.4	0.00
20	204.	0.	-205.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-207.1	207.1	0.00
21	205.	0.	-207.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-208.7	208.7	0.00
22	207.	0.	-208.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-210.2	210.2	0.00
23	208.	0.	-210.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-211.6	211.6	0.00
24	210.	0.	-211.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-213.0	213.0	0.00
25	211.	0.	-212.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-214.3	214.3	0.00

26	212.	0.	-214.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-215.5	215.5	0.00
27	214.	0.	-215.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-216.7	216.7	0.00
28	215.	0.	-216.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-217.8	217.8	0.00
29	216.	0.	-217.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-218.8	218.8	0.00
30	217.	0.	-218.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-219.9	219.9	0.00
31	218.	0.	-219.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-220.8	220.8	0.00
32	219.	0.	-220.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-221.7	221.7	0.00
33	220.	0.	-221.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-222.6	222.6	0.00
34	221.	0.	-222.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-223.5	223.5	0.00
35	222.	0.	-222.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-224.3	224.3	0.00
36	222.	0.	-223.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-225.0	225.0	0.00
37	223.	0.	-224.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-225.7	225.7	0.00
38	224.	0.	-225.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-226.4	226.4	0.00
39	225.	0.	-225.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-227.1	227.1	0.00
40	225.	0.	-226.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-227.7	227.7	0.00
41	226.	0.	-227.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-228.4	228.4	0.00
42	227.	0.	-227.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-228.9	228.9	0.00
43	227.	0.	-228.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-229.5	229.5	0.00
44	228.	0.	-228.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-230.0	230.0	0.00
45	228.	0.	-229.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-230.5	230.5	0.00
46	229.	0.	-229.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-231.0	231.0	0.00
47	229.	0.	-230.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-231.5	231.5	0.00
48	230.	0.	-230.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-232.0	232.0	0.00
49	230.	0.	-231.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-232.4	232.4	0.00
50	231.	0.	-231.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-232.8	232.8	0.00
51	231.	0.	-231.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-233.2	233.2	0.00
52	231.	0.	-232.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-233.6	233.6	0.00
53	232.	0.	-232.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-234.0	234.0	0.00
54	232.	0.	-232.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-234.3	234.3	0.00
55	232.	0.	-233.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-234.7	234.7	0.00
56	233.	0.	-233.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-235.0	235.0	0.00
57	233.	0.	-233.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-235.3	235.3	0.00
58	233.	0.	-234.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-235.7	235.7	0.00
59	234.	0.	-234.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-236.0	236.0	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: BayouBlue#1

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	234.	0.	-234.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-236.3	236.3	0.00
61	234.	0.	-235.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-236.5	236.5	0.00
62	235.	0.	-235.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-236.8	236.8	0.00
63	235.	0.	-11.	0.	0.	-1.	0.	0.	0.	0.	-223.	1.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-236.2	236.2	0.00
64	11.	0.	-10.	1.	0.	0.	0.	0.	0.	0.	0.	1.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.6	12.6	0.00
65	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.4	12.4	0.00
66	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.3	12.3	0.00
67	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.2	12.2	0.00
68	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	1.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.2	12.2	0.00
69	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.2	12.2	0.00
70	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.2	12.2	0.00
71	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.3	12.3	0.00
72	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.3	12.3	0.00

73	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.4	12.4	0.00
74	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.5	12.5	0.00
75	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.6	12.6	0.00
76	10.	0.	-10.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.7	12.7	0.00
77	10.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.8	12.8	0.00
78	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-12.9	12.9	0.00
79	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.0	13.0	0.00
80	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.1	13.1	0.00
81	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.3	13.3	0.00
82	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.4	13.4	0.00
83	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.5	13.5	0.00
84	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.6	13.6	0.00
85	11.	0.	-11.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.7	13.7	0.00
86	11.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-13.8	13.8	0.00
87	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.0	14.0	0.00
88	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.1	14.1	0.00
89	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.2	14.2	0.00
90	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.3	14.3	0.00
91	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.5	14.5	0.00
92	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.6	14.6	0.00
93	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.7	14.7	0.00
94	12.	0.	-12.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-14.8	14.8	0.00
95	12.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.0	15.0	0.00
96	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.1	15.1	0.00
97	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.2	15.2	0.00
98	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.3	15.3	0.00
99	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.5	15.5	0.00
100	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.6	15.6	0.00
101	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.7	15.7	0.00
102	13.	0.	-13.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-15.8	15.8	0.00
103	13.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.0	16.0	0.00
104	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.1	16.1	0.00
105	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.2	16.2	0.00
106	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.3	16.3	0.00
107	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.5	16.5	0.00
108	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.6	16.6	0.00
109	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.7	16.7	0.00
110	14.	0.	-14.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-16.8	16.8	0.00
111	14.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.0	17.0	0.00
112	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.1	17.1	0.00
113	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.2	17.2	0.00
114	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.4	17.4	0.00
115	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.5	17.5	0.00
116	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.6	17.6	0.00
117	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.7	17.7	0.00
118	15.	0.	-15.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-17.9	17.9	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: BayouBlue#1

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 ALG	SOD NCM	ALG PHOT	ALG RESP	MAC PHOT	TOT OUT	TOT IN
119	15.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.2	18.1	-0.09

120	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.2	18.2	0.00
121	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.3	18.3	0.00
122	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.4	18.4	0.00
123	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.5	18.5	0.00
124	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.6	18.6	0.00
125	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.8	18.8	0.00
126	16.	0.	-16.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-18.9	18.9	0.00
127	16.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.0	19.0	0.00
128	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.1	19.1	0.00
129	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.3	19.3	0.00
130	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.4	19.4	0.00
131	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.5	19.5	0.00
132	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.6	19.6	0.00
133	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.8	19.8	0.00
134	17.	0.	-17.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-19.9	19.9	0.00
135	17.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.0	20.0	0.00
136	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.2	20.2	0.00
137	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.3	20.3	0.00
138	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.4	20.4	0.00
139	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.6	20.6	0.00
140	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.7	20.7	0.00
141	18.	0.	-18.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-20.8	20.8	0.00
142	18.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.0	21.0	0.00
143	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.1	21.1	0.00
144	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.2	21.2	0.00
145	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.4	21.4	0.00
146	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.5	21.5	0.00
147	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.6	21.6	0.00
148	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.8	21.8	0.00
149	19.	0.	-19.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-21.9	21.9	0.00
150	19.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.0	22.0	0.00
151	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.2	22.2	0.00
152	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.3	22.3	0.00
153	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.4	22.4	0.00
154	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.6	22.6	0.00
155	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.7	22.7	0.00
156	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.8	22.8	0.00
157	20.	0.	-20.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-22.9	22.9	0.00
158	20.	0.	-21.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-23.1	23.1	0.00
159	21.	0.	-21.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-23.2	23.2	0.00
160	21.	0.	-21.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-23.3	23.3	0.00
161	21.	0.	-21.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-23.5	23.5	0.00
162	21.	0.	-21.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-23.6	23.6	0.00
163	21.	0.	-21.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-23.8	23.8	0.00
164	21.	0.	-21.	0.	0.	-1.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-24.1	24.0	0.00
165	21.	0.	-19.	1.	0.	-3.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-24.7	24.7	0.00
180	19.	141.	-163.	3.	-5.	2.	0.	0.	0.	0.	0.	18.	-12.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-187.6	187.6	0.00
181	163.	0.	-166.	-2.	0.	1.	0.	0.	0.	0.	0.	17.	-12.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-187.0	187.0	0.00
182	166.	0.	-168.	-1.	0.	1.	0.	0.	0.	0.	0.	17.	-12.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-188.9	188.9	0.00
183	168.	0.	-169.	-1.	0.	1.	0.	0.	0.	0.	0.	17.	-13.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-190.3	190.3	0.00

184	169.	0.	-170.	-1.	0.	1.	0.	0.	0.	0.	0.	17.	-13.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-191.5	191.5	0.00				
185	170.	0.	-171.	-1.	0.	0.	0.	0.	0.	0.	0.	16.	-13.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-192.3	192.3	0.00				
186	171.	0.	-172.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-13.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-192.9	192.9	0.00				
187	172.	0.	-172.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-13.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-193.3	193.3	0.00				
188	172.	0.	-172.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-14.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-193.6	193.6	0.00				
189	172.	0.	-172.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-14.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-193.7	193.7	0.00				
190	172.	0.	-172.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-14.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-193.9	193.9	0.00				
191	172.	0.	-172.	0.	0.	0.	0.	0.	0.	0.	0.	16.	-14.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-193.9	193.9	0.00				

DISSOLVED OXYGEN LOADING FOR REACH 1: BayouBlue#1

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
192	172.	0.	-172.	0.	0.	0.	0.	0.	0.	0.	16.	-14.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-193.7	193.7	0.00	
193	172.	0.	-171.	0.	0.	0.	0.	0.	0.	0.	16.	-14.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-193.5	193.5	0.00	
194	171.	0.	-171.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-193.2	193.2	0.00	
195	171.	0.	-170.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-192.9	192.9	0.00	
196	170.	0.	-170.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-192.5	192.5	0.00	
197	170.	0.	-169.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-192.0	192.0	0.00	
198	169.	0.	-168.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-191.5	191.5	0.00	
199	168.	0.	-168.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-191.0	191.0	0.00	
200	168.	0.	-167.	0.	0.	0.	0.	0.	0.	0.	17.	-15.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-190.5	190.5	0.00	
201	167.	0.	-166.	0.	0.	0.	0.	0.	0.	0.	17.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-190.0	190.0	0.00	
202	166.	0.	-166.	0.	0.	0.	0.	0.	0.	0.	17.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-189.4	189.4	0.00	
203	166.	0.	-165.	0.	0.	0.	0.	0.	0.	0.	17.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-188.9	188.9	0.00	
204	165.	0.	-165.	0.	0.	0.	0.	0.	0.	0.	17.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-188.3	188.3	0.00	
205	165.	0.	-164.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-187.8	187.8	0.00	
206	164.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-187.2	187.2	0.00	
207	163.	0.	-163.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-186.7	186.7	0.00	
208	163.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-186.1	186.1	0.00	
209	162.	0.	-162.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-185.6	185.6	0.00	
210	162.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-185.1	185.1	0.00	
211	161.	0.	-161.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-184.6	184.6	0.00	
212	161.	0.	-160.	0.	0.	0.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-184.3	184.3	0.00	
213	160.	0.	-161.	0.	0.	1.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-184.8	184.8	0.00	
214	161.	0.	-162.	-1.	0.	3.	0.	0.	0.	0.	18.	-16.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-186.7	186.7	0.00	
215	162.	0.	-167.	-3.	0.	7.	0.	0.	0.	0.	17.	-14.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-191.4	191.4	0.00	
216	167.	0.	-177.	-7.	0.	14.	0.	0.	0.	0.	16.	-11.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-201.3	201.3	0.00	

DISSOLVED OXYGEN LOADING FOR REACH 2: ICWWtoBlue

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
166	114.	0.	-122.	0.	0.	3.	0.	0.	0.	0.	14.	-7.	-1.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-136.9	136.9	0.00	
167	122.	0.	-126.	-3.	0.	3.	0.	0.	0.	0.	14.	-8.	-1.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-144.3	144.3	0.00	
168	126.	0.	-130.	-3.	0.	2.	0.	0.	0.	0.	13.	-8.	-1.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-147.4	147.4	0.00	
169	130.	0.	-132.	-2.	0.	2.	0.	0.	0.	0.	13.	-8.	-1.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-149.9	149.9	0.00	
170	132.	0.	-134.	-2.	0.	1.	0.	0.	0.	0.	13.	-9.	-1.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-151.9	151.9	0.00	
171	134.	0.	-136.	-1.	0.	1.	0.	0.	0.	0.	13.	-9.	-1.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-153.5	153.5	0.00	
172	136.	0.	-137.	-1.	0.	1.	0.	0.	0.	0.	13.	-9.	-1.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-154.6	154.6	0.00	
173	137.	0.	-138.	-1.	0.	0.	0.	0.	0.	0.	13.	-10.	-1.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-155.4	155.4	0.00	
174	138.	0.	-138.	0.	0.	0.	0.	0.	0.	0.	13.	-10.	-1.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-155.9	155.9	0.00	
175	138.	0.	-138.	0.	0.	0.	0.	0.	0.	0.	13.	-10.	-1.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-156.2	156.2	0.00	
176	138.	0.	-138.	0.	0.	0.	0.	0.	0.	0.	13.	-11.	-1.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-156.4	156.4	0.00	

```
177  138.   0. -138.  0.  0.  0.  0.  0.  0.  0.  0. 13. -11. -1.  0.  0. -7.  0.  0.  0. 6.  0.  0. -156.7  156.7  0.00
178  138.   0. -139.  0.  0.  1.  0.  0.  0.  0.  0. 12. -11. -1.  0.  0. -7.  0.  0.  0. 6.  0.  0. -157.8  157.8  0.00
179  139.   0. -141. -1.  0.  5.  0.  0.  0.  0.  0. 12. -12. -1.  0.  0. -7.  0.  0.  0. 6.  0.  0. -161.3  161.3  0.00
LA-QUAL calibration for Bayou Blue
FTN Field Survey calibration
INPUT/OUTPUT LOADING SUMMARY
```

	FLOW	DO	BOD#1	BOD#2	ORG-N	NH3-N	NO3-N	PHOS	CHL A	NCM
	m^3/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d		
HEADWATER FLOW	0.792	261.7	302.1	0.0	80.1	7.9	0.0	0.0	0.0	0.0
INCREMENTAL INFLOW	0.050	18.7	21.2	0.0	5.2	0.5	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	0.000	0.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WITHDRAWLS	-0.396	-223.2	-213.4	0.0	-40.2	-3.8	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-0.446	-176.6	-279.6	0.0	-15.2	-3.8	0.0	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		13.6	-164.3	0.0	-20.1	0.1	16.3	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	1180.0	0.0	0.0					0.0
NATURAL REAERATION		1171.8								
DAM REAERATION		0.0								
BACKGROUND SOD		-516.2								
BOD#1 DECAY		-848.7	-848.7							
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			-9.8	9.8				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-46.4				-10.7	10.7			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		345.0				0.0	-33.2	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	0.842	1811.0	1506.0	0.0	85.3	18.3	27.0	0.0	0.0	0.0
TOTAL OUTPUTS	-0.842	-1811.0	-1506.0	0.0	-85.3	-18.3	-33.2	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	-0.1	0.0	0.0	0.0	0.0	-6.2	0.0	0.0	0.0

.....EXECUTION COMPLETED

APPENDIX F:
PLOTS OF CALIBRATED AND OBSERVED WATER QUALITY

Figure F-1. Temperature modeling results for subsegment 120202. 1
Figure F-2. Ammonia modeling results for subsegment 120202. 1
Figure F-3. BOD_u modeling results for subsegment 120202..... 2
Figure F-4. DO modeling results for subsegment 120202..... 2
Figure F-5. Temperature modeling results for subsegment 120204. 3
Figure F-6. Ammonia modeling results for subsegment 120204. 3
Figure F-7. BOD_u modeling results for subsegment 120204..... 4
Figure F-8. DO modeling results for subsegment 120204..... 4
Figure F-9. Temperature modeling results for subsegments 120304 and 120403..... 5
Figure F-10. Ammonia modeling results for subsegments 120304 and 120403. 5
Figure F-11. BOD_u modeling results for subsegments 120304 and 120403. 6
Figure F-12. DO modeling results for subsegments 120304 and 120403. 6
Figure F-13. Temperature modeling results for subsegment 120604. 7
Figure F-14. Ammonia modeling results for subsegment 120604. 7
Figure F-15. BOD_u modeling results for subsegment 120604..... 8
Figure F-16. DO modeling results for subsegment 120604..... 8

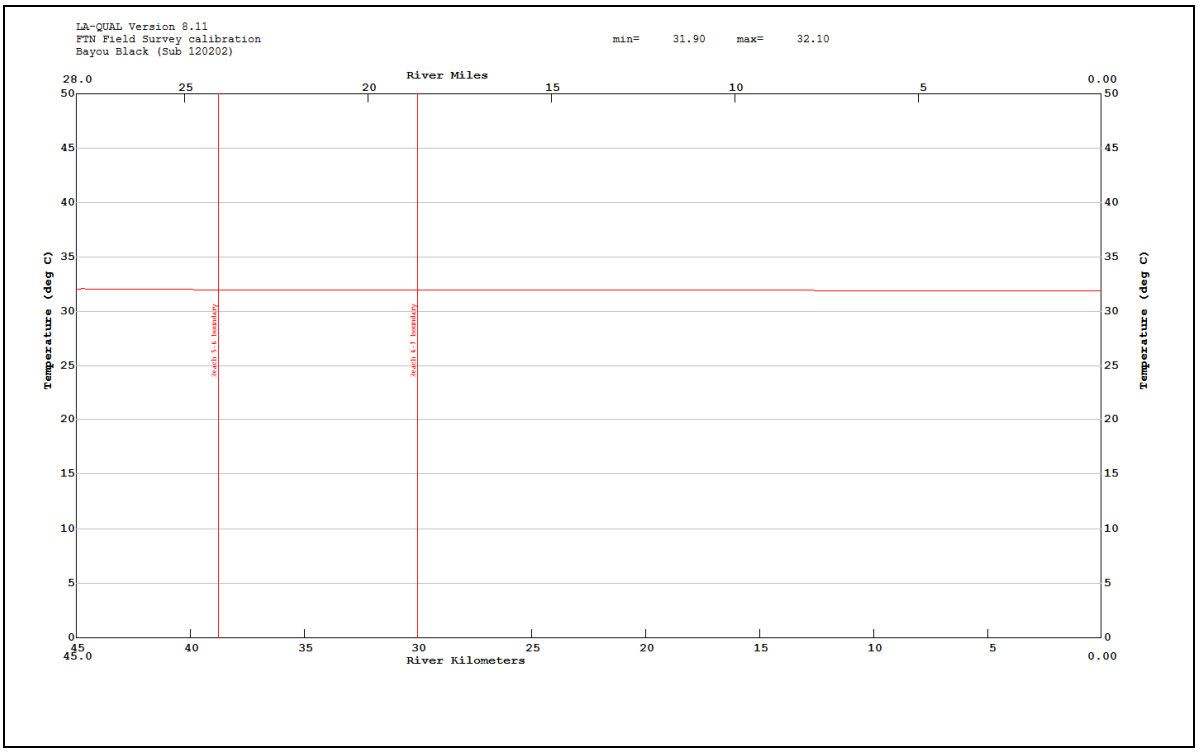

Figure F-1. Temperature modeling results for subsegment 120202.

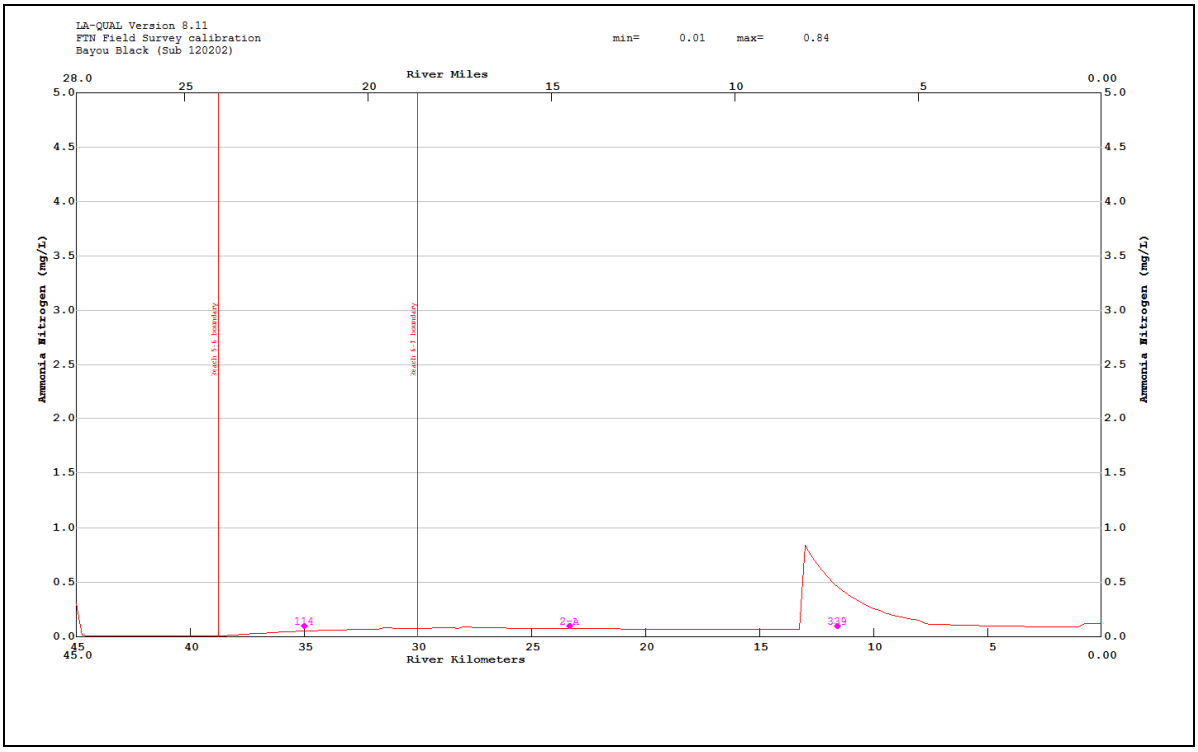

Figure F-2. Ammonia modeling results for subsegment 120202.

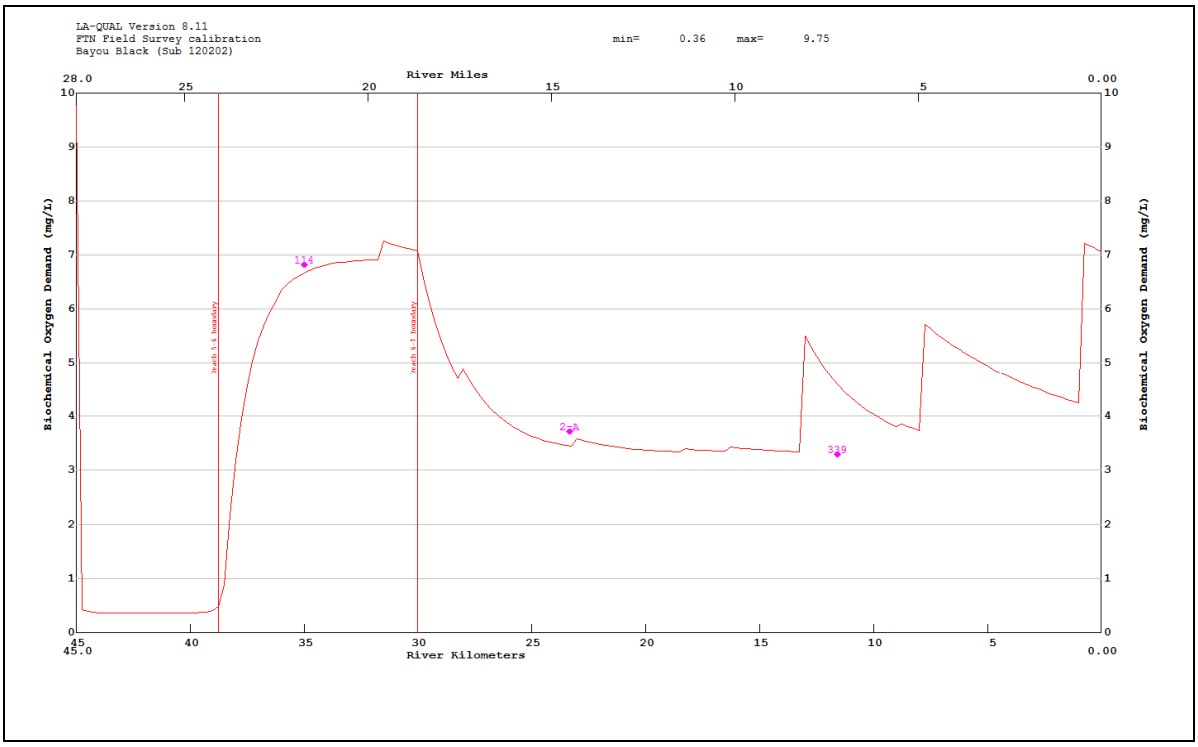

Figure F-3. BOD_u modeling results for subsegment 120202.

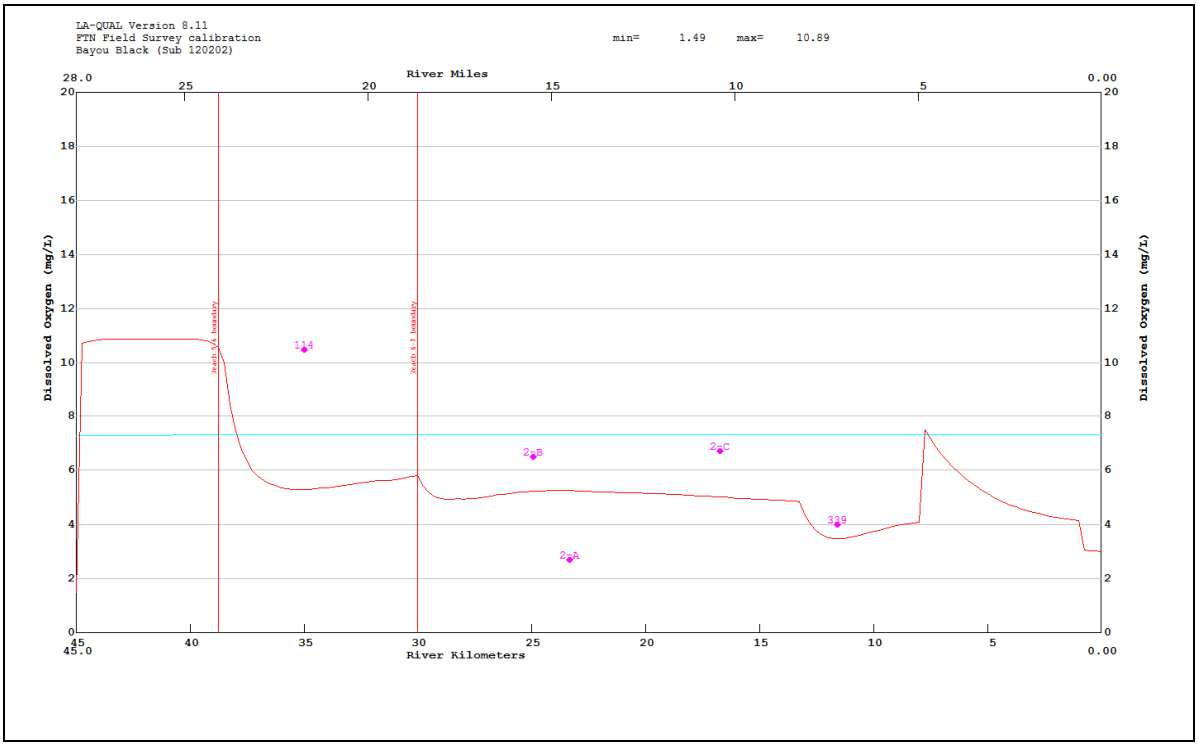

Figure F-4. DO modeling results for subsegment 120202.

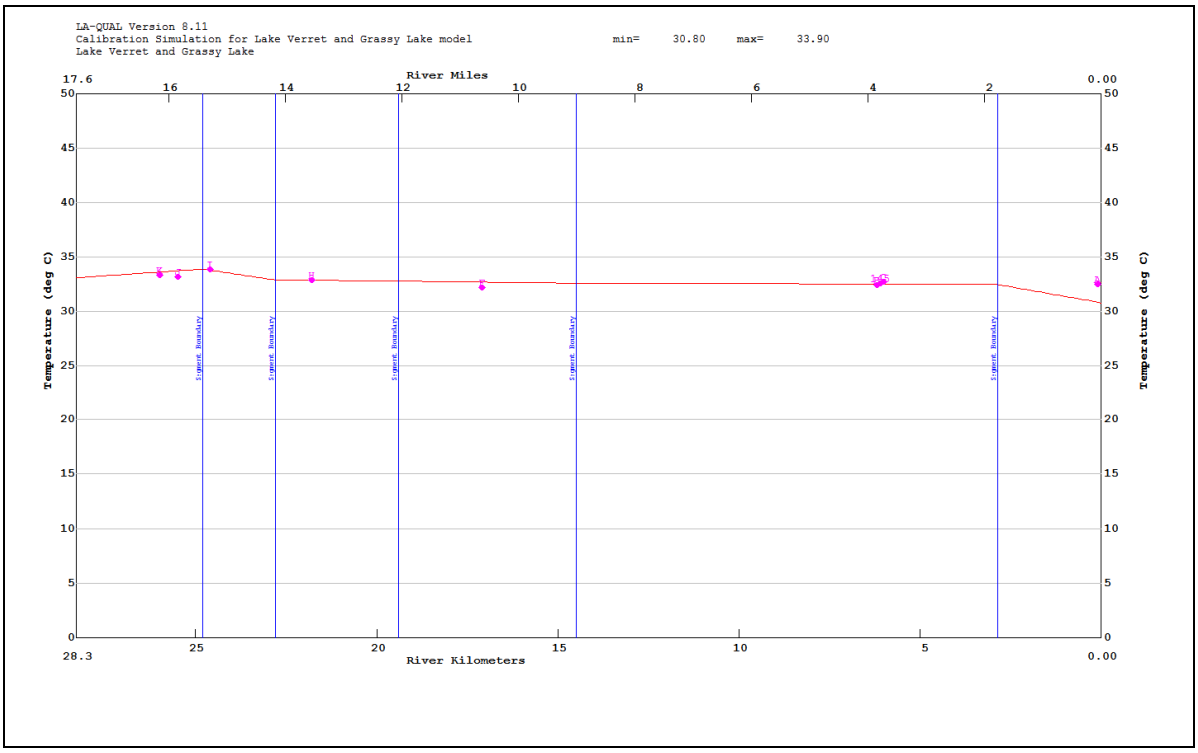

Figure F-5. Temperature modeling results for subsegment 120204.

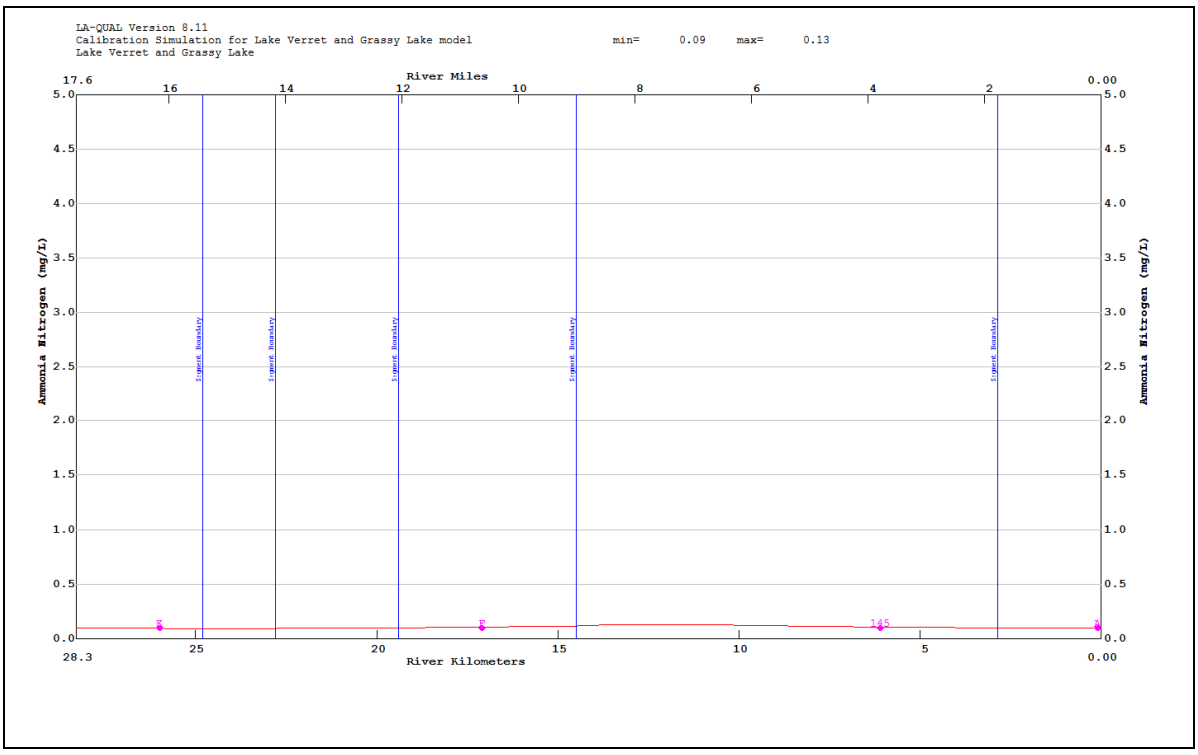

Figure F-6. Ammonia modeling results for subsegment 120204.

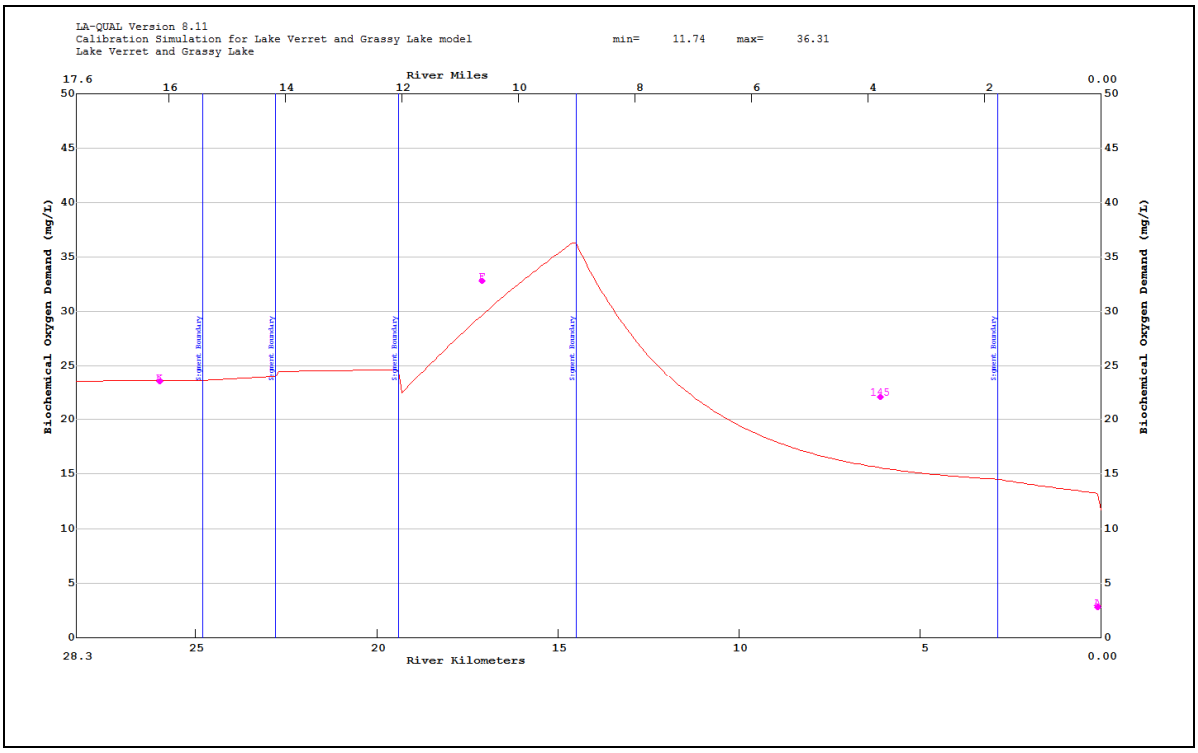

Figure F-7. BOD_u modeling results for subsegment 120204.

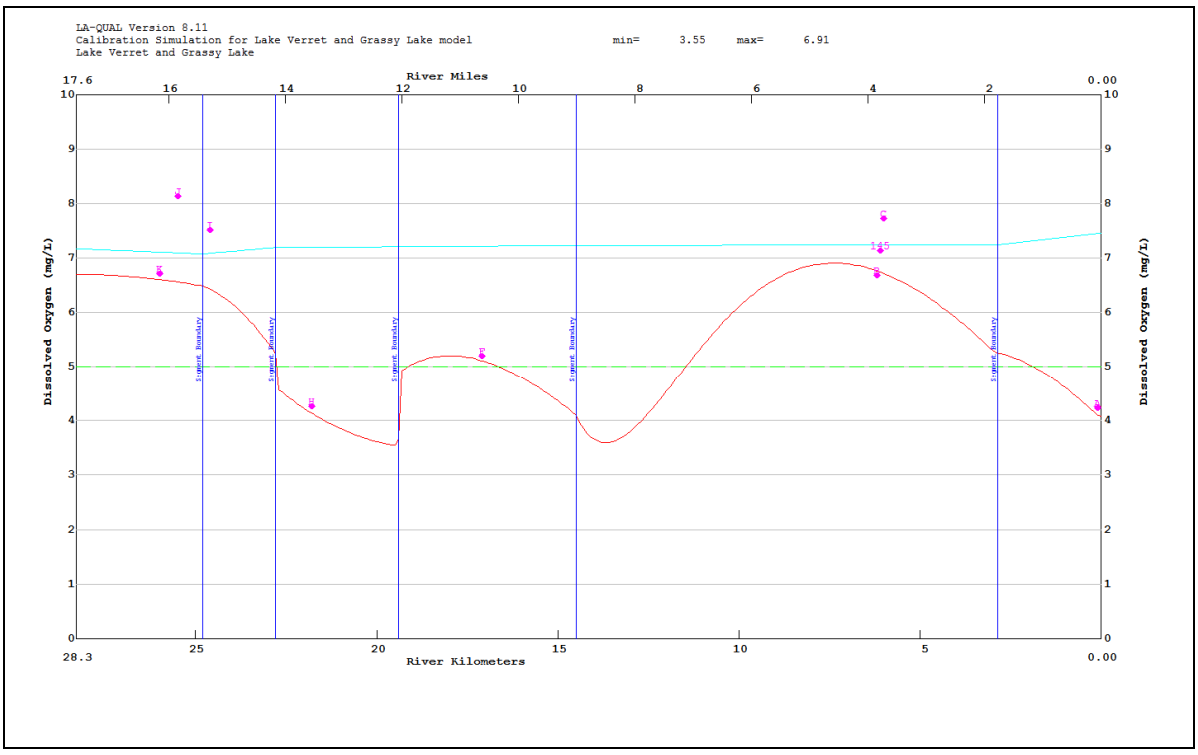

Figure F-8. DO modeling results for subsegment 120204.

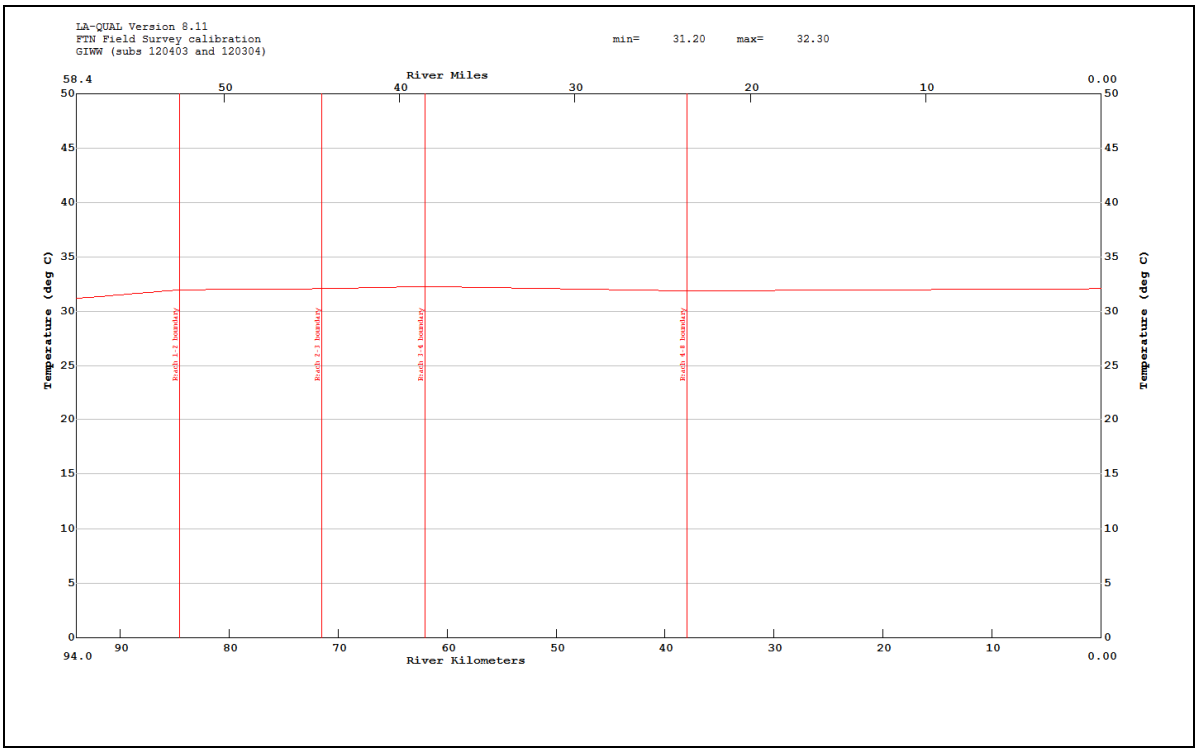

Figure F-9. Temperature modeling results for subsegments 120304 and 120403.

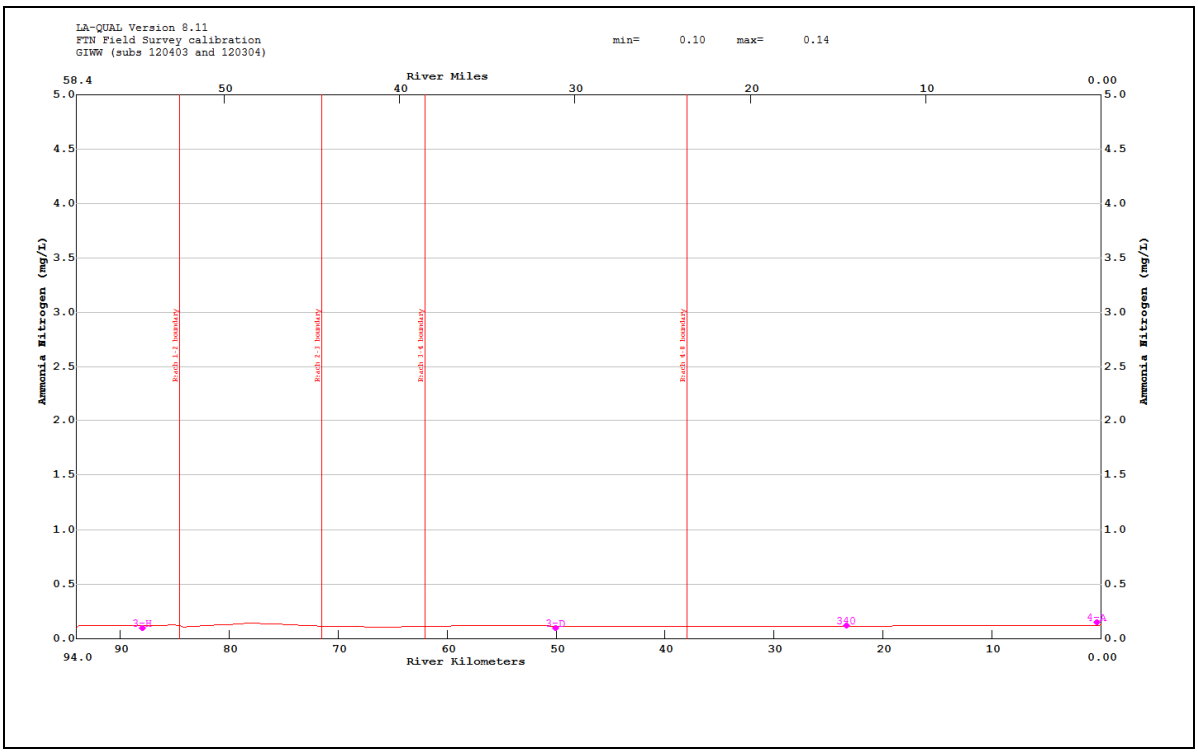

Figure F-10. Ammonia modeling results for subsegments 120304 and 120403.

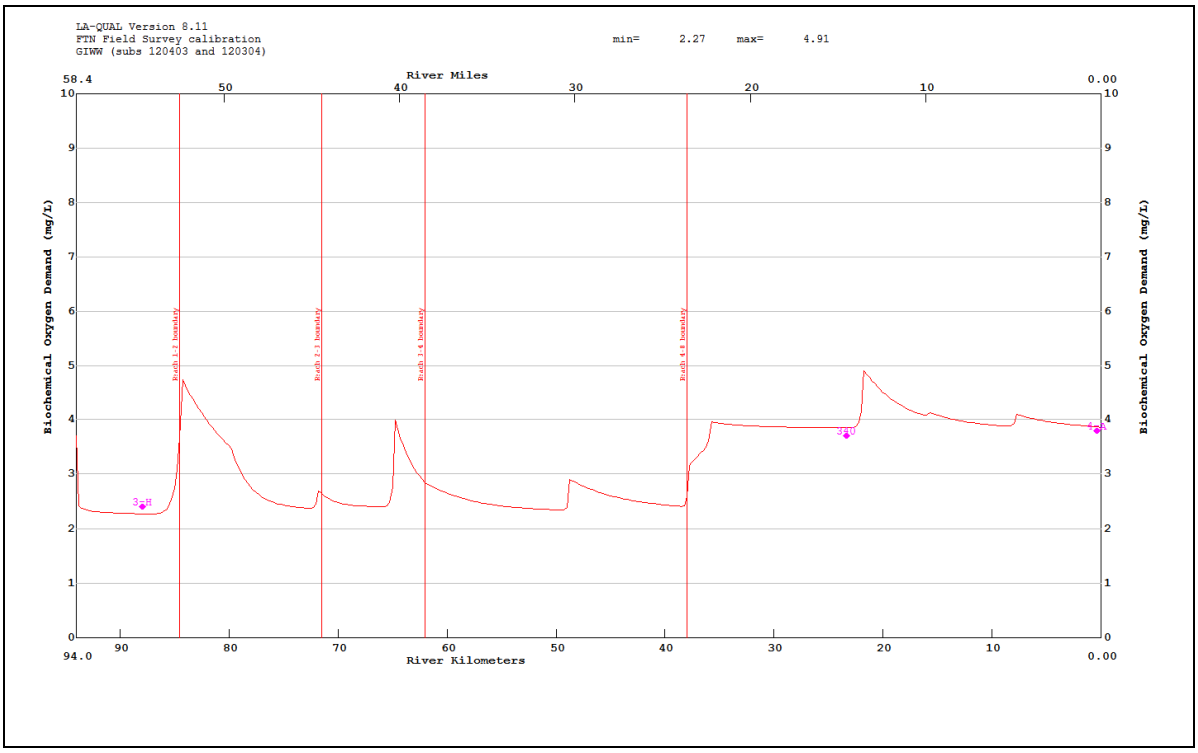

Figure F-11. BOD_u modeling results for subsegments 120304 and 120403.

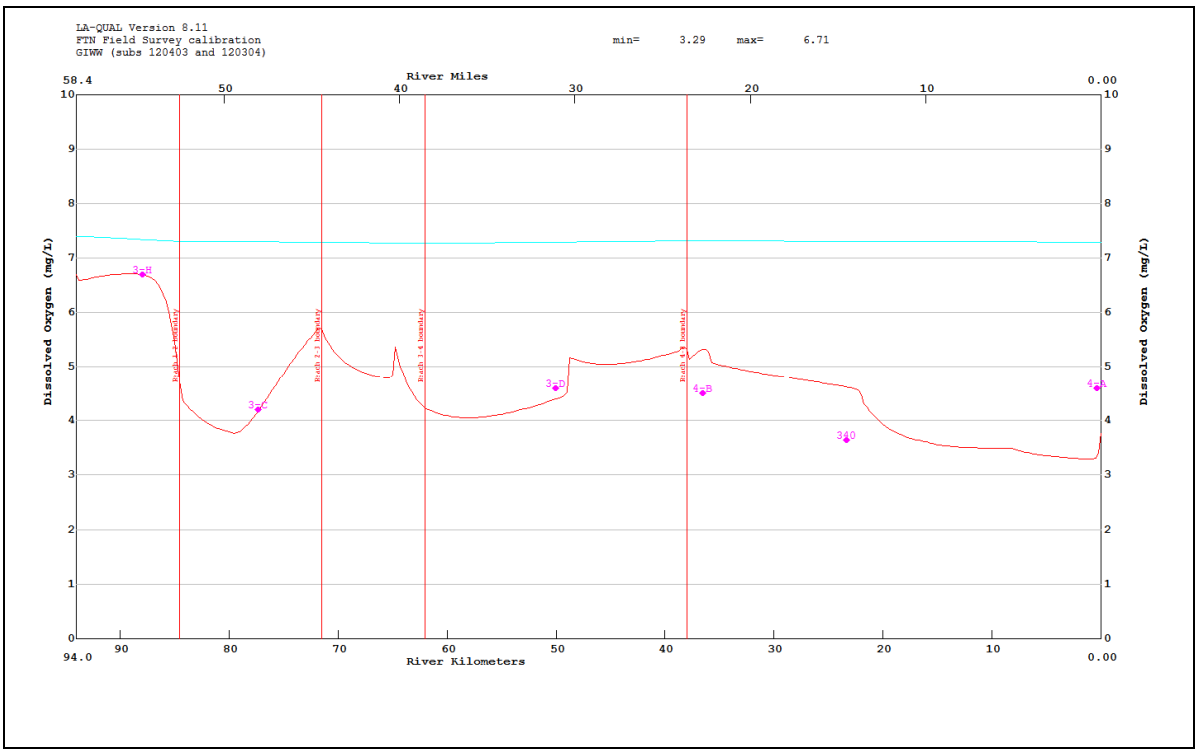

Figure F-12. DO modeling results for subsegments 120304 and 120403.

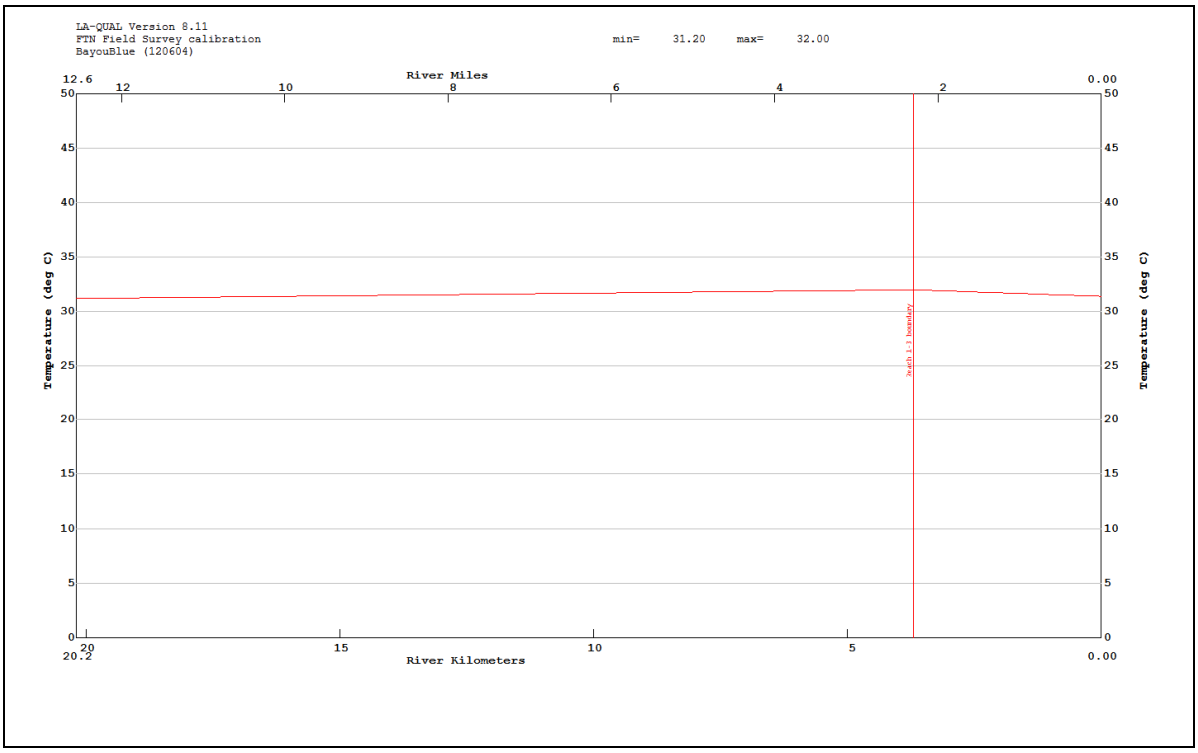

Figure F-13. Temperature modeling results for subsegment 120604.

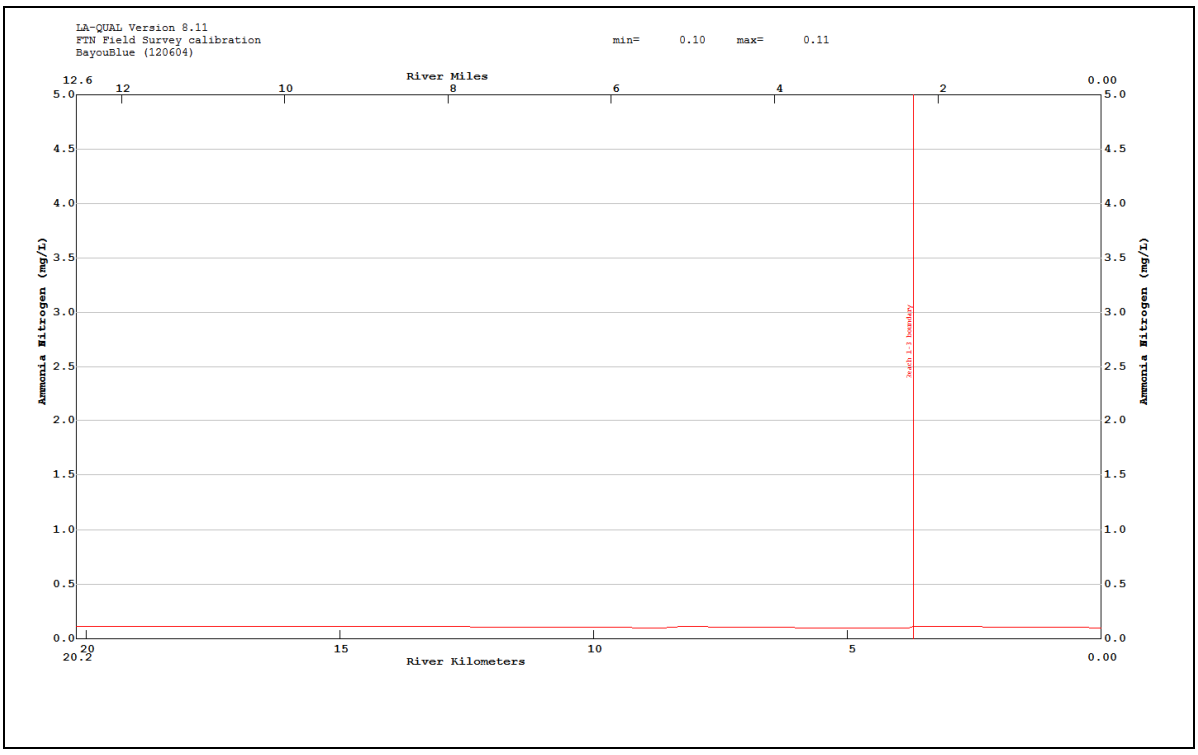

Figure F-14. Ammonia modeling results for subsegment 120604.

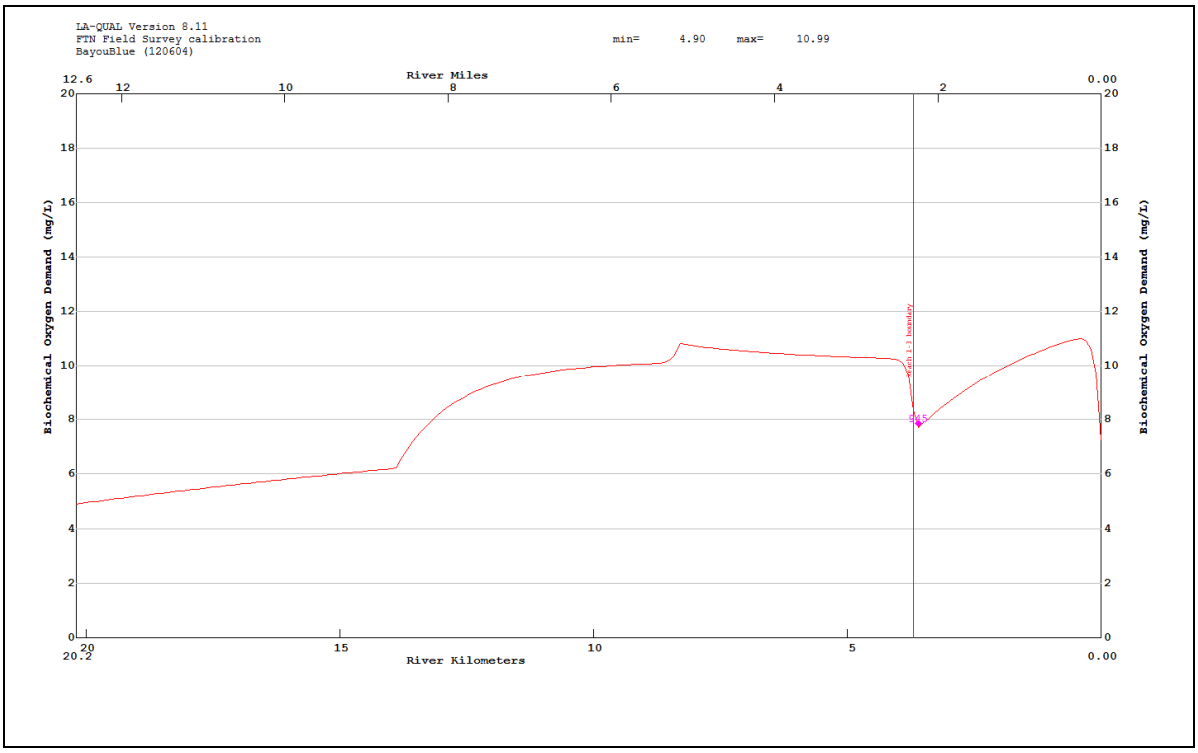

Figure F-15. BOD_u modeling results for subsegment 120604.

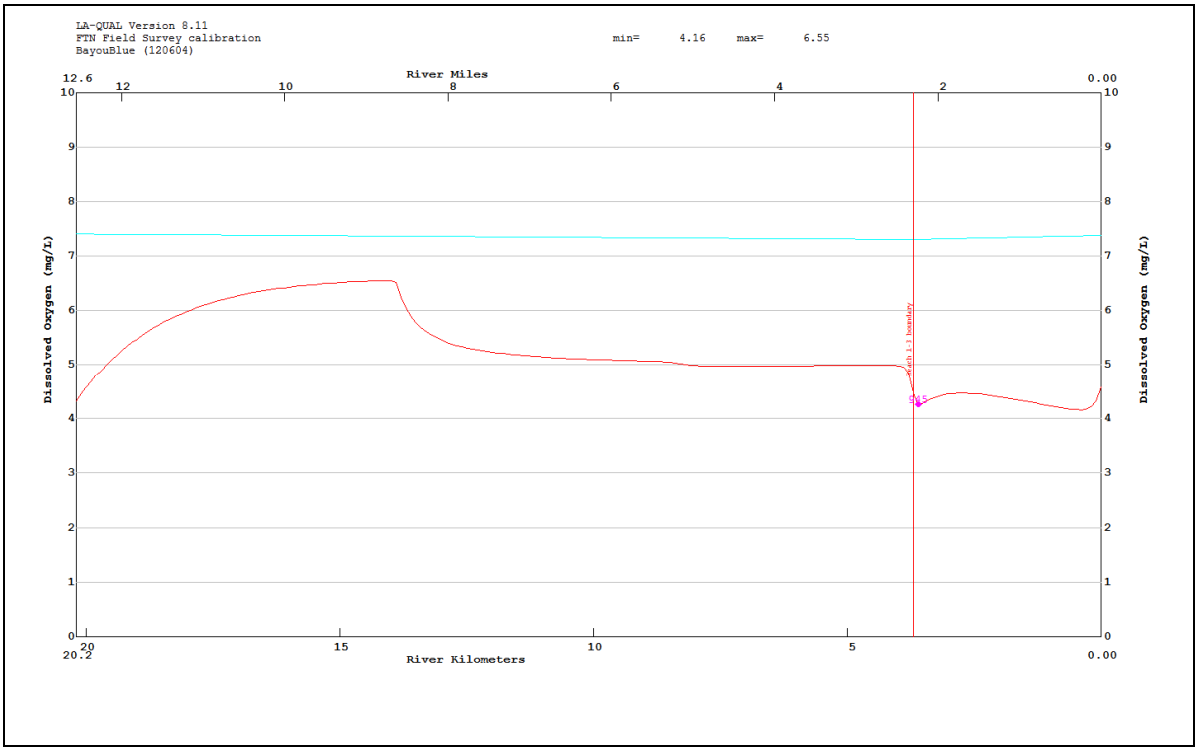

Figure F-16. DO modeling results for subsegment 120604.